Visit www.lenovo.com/psref for the latest version
<table>
<thead>
<tr>
<th>Model</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkCentre M93z (10AC) - Multi-touch - II</td>
<td>139</td>
</tr>
<tr>
<td>ThinkCentre M93z (10AC) - Multi-touch - III</td>
<td>140</td>
</tr>
<tr>
<td>ThinkCentre M93z (10AC) - Multi-touch (Windows 8)</td>
<td>141</td>
</tr>
<tr>
<td>ThinkCentre M93z (10AC) - Multi-touch (GMP)</td>
<td>142</td>
</tr>
<tr>
<td>ThinkCentre M93z (10AC) - Multi-touch (GMP) - Windows 8/8.1</td>
<td>143</td>
</tr>
<tr>
<td>ThinkCentre Edge 62z</td>
<td>144</td>
</tr>
<tr>
<td>ThinkCentre Edge 62z (2117) - TopSeller</td>
<td>145</td>
</tr>
<tr>
<td>ThinkCentre E63z All-In-One</td>
<td>146</td>
</tr>
<tr>
<td>ThinkCentre E63z Platform Specifications</td>
<td>147</td>
</tr>
<tr>
<td>ThinkCentre E63z (10D4) - TopSeller</td>
<td>148</td>
</tr>
<tr>
<td>ThinkCentre E63z (10D6) - Multi-touch (TopSeller)</td>
<td>149</td>
</tr>
<tr>
<td>ThinkCentre E63z (10E0) - TopSeller</td>
<td>150</td>
</tr>
<tr>
<td>ThinkCentre E63z (10E2) - Multi-touch (TopSeller)</td>
<td>151</td>
</tr>
<tr>
<td>ThinkCentre E63z (10D5)</td>
<td>152</td>
</tr>
<tr>
<td>ThinkCentre E63z (10D7) - Multi-touch</td>
<td>153</td>
</tr>
<tr>
<td>ThinkCentre E63z (10E1)</td>
<td>154</td>
</tr>
<tr>
<td>ThinkCentre E63z (10E3) - Multi-touch</td>
<td>155</td>
</tr>
<tr>
<td>ThinkCentre E73 SFF and Tower</td>
<td>156</td>
</tr>
<tr>
<td>ThinkCentre E73 SFF (10AU) - TopSeller</td>
<td>157</td>
</tr>
<tr>
<td>ThinkCentre E73 Tower (10AS) - TopSeller</td>
<td>158</td>
</tr>
<tr>
<td>ThinkCentre E93z All-In-One</td>
<td>159</td>
</tr>
<tr>
<td>ThinkCentre E93z All-In-One - II</td>
<td>160</td>
</tr>
<tr>
<td>ThinkCentre E93z (10BB) - TopSeller</td>
<td>161</td>
</tr>
<tr>
<td>ThinkCentre E93z (10B9) - NVIDIA (TopSeller)</td>
<td>162</td>
</tr>
<tr>
<td>ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller</td>
<td>163</td>
</tr>
<tr>
<td>ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller (Win8)</td>
<td>164</td>
</tr>
<tr>
<td>ThinkCentre E93z (10BH)</td>
<td>165</td>
</tr>
<tr>
<td>ThinkCentre E93z (10BK) - Multi-touch (NVIDIA)</td>
<td>166</td>
</tr>
<tr>
<td>ThinkCentre - TopSeller Services</td>
<td>167</td>
</tr>
<tr>
<td>ThinkCentre - Lenovo Services</td>
<td>168</td>
</tr>
<tr>
<td>Withdrawn Product Books</td>
<td>169</td>
</tr>
<tr>
<td>Legal Information and Trademarks</td>
<td>170</td>
</tr>
</tbody>
</table>
Summary of Changes

This section describes the technical changes made in this edition.
This edition might also include minor corrections and editorial changes which are not identified.

January 28, 2015 - Version 467

Additions in this update

► New model(s)
  ThinkCentre M53 Tiny new Thin Client models announced January 2015

► Specifications update
  ThinkCentre Tiny-In-One 23 specifications is updated for ThinkCentre Tiny-in-One Power On feature
Recently Launched Think Accessories

ThinkPad Compact Bluetooth Keyboard with Trackpoint (PN: 0B47189)

ThinkPad Noise Cancelling Earbuds (PN: 0B47313)

Lenovo Wireless TouchPad for Windows 8 (PN: 0A33909)

Additional Think Accessories

ThinkPad USB 3.0 Portable Secure HDD (500GB, 750GB, 1TB) (PN: 0A65619, 0A65616, 0A65621)

Lenovo Ultraslim Wireless Keyboard and Mouse Combo (PN: 0A34032)

Kensington MicroSaver Security Cable Lock from Lenovo (PN: 73P2582)
Lenovo Quick Pick ([http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)) is an options compatibility configurator for Lenovo systems.

For more information on the various ThinkCentre systems, please see below:

<table>
<thead>
<tr>
<th>ThinkCentre M32</th>
<th>ThinkCentre M73z</th>
</tr>
</thead>
<tbody>
<tr>
<td>M32 Thin Client 10BM/10BV</td>
<td>M73z AIO 10BB/10BC</td>
</tr>
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<td><a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m32-thin-client">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m32-thin-client</a></td>
<td><a href="http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73z-aio">www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m73z-aio</a></td>
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<th>ThinkCentre M93z</th>
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<tbody>
<tr>
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<td>M93z AIO 10AC/10AD/10AE/10AF</td>
<td>Edge 62z AIO 2117</td>
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<td>E63z AIO 10D4/10D5/10D6/10D7</td>
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| M93/M93p Small 10A2/10A3/10A8/10A9 | E73 Tower 10A/10AL/10BE |
| [www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-sff](http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-sff) | [www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-tower](http://www.lenovoquickpick.com/usa/system/thinkcentre/e-series/e73-tower) |

| M93/M93p Tower 10A0/10A1/10A6/10A7 | ThinkCentre E73 |
| [www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tower](http://www.lenovoquickpick.com/usa/system/thinkcentre/m-series/m93-m93p-tower) |
### ThinkCentre Tiny-in-One (TIO) 23

**Model**  
10DQPARUS

**Form factor**  
Tiny-in-One, offers a full All-In-One experience when optional Tiny slots into the back of TIO 23, clean cables and effortless setup.

**Compatible Tiny**  
- M93/p Tiny, M83 Tiny, M73 Tiny, or M53 Tiny
- Processor, memory, storage, operating system, WLAN, Bluetooth, Keyboard, mouse, etc., depend on the Tiny installed (optional)

**Panel**  
- TFT-LCD, twisted nematic (TN), White LED backlight

**Viewable image size**  
23.0" (584.2mm) diagonal

**Max view area (W x H)**  
20.05" x 11.28" / 509.2mm x 286.4mm

**Optimum resolution**  
1920x1080

**Aspect ratio**  
16:9

**Pixel pitch (mm)**  
0.265mm

**Dot/Pixel per Inch**  
96 dpi

**Pixel response time**  
5ms (typical)

**Color gamut**  
96% of NTSC

**Contrast ratio**  
5ms (typical)

**Brightness**  
250 nits or cd/m² (typical)

**Anti-glare**  
No

**Horizontal frequency**  
30 to 83kHz

**Vertical frequency**  
50 to 75Hz

**View angle at 10:1 CR**  
170° (+/- 85°) horizontal, 160° (+/- 80°) vertical

**Preset resolutions**  
- 1280x1024 @ 75Hz
- 1024x768 @ 75Hz
- 1280x720 @ 60Hz
- 1600x1200 @ 75Hz
- 1680x1050 @ 75Hz
- 1920x1080 @ 60Hz

**On screen display**  
- On screen display with digital user controls (8 languages)
- On screen display with digital user controls and built-in speaker controls
- On screen display with digital user controls and built-in microphone controls

**Control features**  
- Mode-switching (TIO mode / stand-alone mode)
- Switches video/audio source / back button, Left shift button, Right shift / Brightness button, Selection button / Menu button, Power button
- Pressing Alt + P on keyboard or pressing Power button positioned on TIO model can turn on both TIO and Tiny (only some Tiny support, see compatible list)

**Tiny-in-One Power On**  
- Front: two USB 3.0 (only when M93/p or M83 installed) or two USB 2.0
- Side: two USB 2.0, one USB 2.0 upstream port (connect to PC), one mini USB 2.0 port for accessories (on top)
- The USB ports are only available when a Tiny is installed or a PC is connected via USB upstream port
- The USB ports are only available when a Tiny is installed or a PC is connected via USB upstream port

**Monitor connectors**  
- 3-in-1 cable
- Detachable 3-in-1 cable (Power connector, USB, DisplayPort), only for Tiny together via Tiny-in-One Power Button

**Audio port**  
- One headphone / microphone combo jack (stereo, 3.5mm)

**Security**  
- Security keyhole for attachment of optional cable lock (Kensington lock compatible)
- Locks optional Tiny and ODD box with TIO 23 together, more security features offered by Tiny installed (optional)

**Mechanical**  
- Dimensions: TIO 23 without stand: W x D x H (inch) 22.17 x 2.74 x 14.88 / 22.17 x 9.84 x 16.15 - 20.48
  - W x D x H (mm) 563 x 69.5 x 378 / 563 x 250 x 410.14 - 520.14
  - Weight (approximately): TIO 23 without stand: 15.4lb / 7kg
  - TIO 23 with Tiny, stand, and ODD box installed: 18.9lb / 8.58kg

**Display**  
- Presets: 25; user settings: 25

**Power supply**  
- 90 watts AC/DC adapter, 88% PSU, universal

**Power consumption**  
- 22 watts typical, 45 watts maximum, <0.5 watts standby / suspend

**Limited warranty**  
- 3-years, Customer Carry-In Exchange (CCE) via Rapid Replacements, IWS (International Warranty Service) / service upgrades available
- For Lenovo service upgrade options, please go to S-TC sheet

**VESA-compliant**  
- VESA DDC2B/CI, VESA DPMS-compliant

**Ergonomics**  
- ISO 9241-307

**Environmental**  
- TCO (TCO Certified Edge 1.1), RoHS, ENERGY STAR® 6.0
- EPEAT™ Gold rating, UEL, TUV

**Windows certifications**  
- Windows 7, Windows 8, and Windows 8.1 certified

**Ship group**  
- TIO 23 (Monitor), detachable stand, Information flyer, Reference and driver CD, AC/DC power adapter, power cord, quickly-released screw

**Accessories**  
- For compatible accessories, please go to TC-AQP sheet

**Mounting features**  
- Wall or desk mounting using the extend arm or third-party accessories meeting the VESA FPMPM® (100mm mount)

**Adjustable stand**  
- Tilt: 35° back, -5° forward; lift: 4.3" (110mm); swivel: +/-45°

See footnotes for more detailed information

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<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Flash Memory</th>
<th>Optical</th>
<th>Graphics</th>
<th>DP to DVI dongle</th>
<th>Floor stand</th>
<th>Keyboard/Mouse</th>
<th>ENERGY STAR 6.0 Global</th>
<th>OS preload</th>
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</tr>
</thead>
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<tr>
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<td>Celeron 807</td>
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<td>WES 7</td>
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</tbody>
</table>

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year depot warranty

Positioning
- Mainstream Thin Client with better security and manageability for the enterprise

Processor
- Intel® Celeron® Processor 807 (1 cores / 2 threads, 1.5GHz, 1.5MB cache),
- integrated Intel HD Graphics,
- 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel Celeron Processor 847 (2 cores / 2 threads, 1.1GHz, 2MB cache),
- integrated Intel HD Graphics,
- 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

Memory
- Intel HD Graphics in processor, uses main memory, DirectX 10.1,
- one VGA, one DisplayPort™, supports dual independent display;
- Maximum resolution: 2560x2048 (DisplayPort) @60Hz; 2560x1600 (VGA) @60Hz

Graphics
- PCIe Mini Card
- None

Flash Memory
- Optical
- SATA controller
- Serial ATA, SATA 3.0Gb/s support, integrated in chipset
- Onboard SATA eSATA port
- None

Chipset
- Mobile Intel NM70 Express Chipset

Front ports
- Four USB 2.0, microphone (3.5mm), headphone (3.5mm)

Rear ports
- Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports
- Customizable Pin definition for serial port 2, 3, and 4, one VGA, one DisplayPort

Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)
- A license is included with the purchase of M32 and the utility is downloadable from website

Security
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

Protocols
- Citrix: ICA, HDX (compatible with XenDesktop and XenApp)
- Microsoft: RDP, RemoteFX (WES 7 models only), RDS
- VMware: VMware Horizon View through RDP

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

Limited Warranty
1-years depot repair service / service upgrades available

See footnotes for important warranty information
US model(s) announced September 3, 2013 or December 10, 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
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- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

### Preloaded operating system

- **Some:** Genuine Windows® Embedded Standard 7 (WES 7)
- **Some:** LeTOS (Lenovo Terminal Operating System, Linux-based)

### Preloaded applications (only some listed)

- **WES 7 only:**
  - Intel Management Engine Components
  - RDP Client
  - Citrix Client
  - VMware Client
  - Internet Explorer 9
  - Java
  - Flash
  - .Net Framework
  - Microsoft® Silverlight
  - Echo Agent
  - Ultra VNC
  - Adobe Reader
  - Intel Manageability Engine Firmware
  - Recovery Agent
- **LeTOS only:**
  - xFreeRDP
  - Citrix ICA Client
  - VMware View Client
  - Java
  - Mozilla Firefox
  - NX NoMachine Client
  - X11 Client
  - VDI-In-A-Box Java Client
  - AnyConnect VPN Client

### Network-based Thin Client Management Tool

- Lenovo Thin Client Manager (LTM)*
  - *A license is included with the purchase of M32 and the utility is downloadable from website

### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver®
- Power-on password
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- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
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### Protocols

- Citrix: ICA, HDX (compatible with XenDesktop and XenApp)
- Microsoft: RDP, RemoteFX (WES 7 models only), RDS
- VMware: VMware Horizon View through RDP
- VMware Horizon View through PCoIP

### Machine

- Business black color; USFF (2L)
- Fan-less, Cable-less Design
- (Without stand) 2.2” W X 6.7” D X 8.7” H
- (With stand) 55mm W X 170mm D X 220mm H
- (Without stand) 3.1 lb (1.46 kg) in maximum configuration

### Limited Warranty

- **1-years, limited onsite service,** 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

See footnotes for important warranty information

US model(s) announced September 3, 2013

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(CLVL1-1) September 2013
## ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 3-year onsite

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
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<th>Processor</th>
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<td>None</td>
<td>WES 7</td>
<td>12/10/13</td>
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- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

### Positioning

**Processor**

Mainstream Thin Client with better security and manageability for the enterprise

Intel® Celeron® Processor 807 *(1 cores / 2 threads, 1.5GHz, 1.5MB cache)*, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel® Celeron® Processor 847 *(2 cores / 2 threads, 1.1GHz, 2MB cache)*, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

### Memory

4GB max. PC3-12800 1600MHz DDR3*: one 204-pin SODIMM socket (notebook) * System automatically clocks down for processors with 1333MHz DDR3 memory controller

### Graphics

Intel HD Graphics in use, main memory, DirectX 10.1, one VGA, one DisplayPort™, supports dual independent display; *Maximum resolution: 2560x2048 (DisplayPort) @60Hz; 2560x1600 (VGA) @60Hz*

### DP dongle

Optional DisplayPort to Single-link DVI-D dongle

### Flash Memory/Onboard Sata

1GB (LeTOS models) or 8GB (WES 7 models) / DOM (Disk On Module) Card

### Optical/SATA controller

None

Serial ATA, SATA 3.0Gb/s support, integrated in chipset

### Onboard SATA eSATA port

None

One SATA 3.0Gb/s connector for DOM Card

### Chipset

Mobile Intel NM70 Express Chipset

### Front Ports

Four USB 2.0, microphone (3.5mm), headphone (3.5mm)

### Rear Ports

Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort

### PCle Mini Card

None

### Bluetooth

None

Audio

High Definition (HD) Audio, Realtek® ALC662-VD codec

### Speaker

None

### IEEE 1394

None

### Ethernet

One gigabit ethernet port, Realtek RTL8111F, Wake on LAN™

### Intel AMT

None

### Modern

None

### Security Chip

None

### Keyboard Mouse

Preferred Pro USB Keyboard (USB connector), black, Lenovo™ logo

Enhanced Optical USB Mouse, black, Lenovo logo

### Floor Stand

Supports VESA 100mm mount standard

### VESA mount

65 watts adapter, autosensing 100-240V, 85% PSU

### Machine

Business black color; USB2 (2L)

Fan-less, Cable-less Design

**[Without stand]** 2.2” W X 6.7” D X 8.7” H

**[Without stand]** 55mm W X 170mm D X 220mm H

**[Without stand]** 3.3 lb (1.48 kg) in maximum configuration

### Protocols

Citrix: ICA, HDX (compatible with XenDesktop and XenApp)

Microsoft: RDP, RemoteFX (WES 7 models only), RDS

VMWare: VMware Horizon View through RDP

VMware Horizon View through PCoIP

### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

*Preloaded operating system*

**Some:**

- Genuine Windows® Embedded Standard 7 (WES 7)

**Some:**

- LeTOS (Lenovo Terminal Operating System, Linux-based)

**Preloaded applications (only some listed)**

**- WES 7 only:**

- Intel Management Engine Components
- RDP Client
- Citrix Client
- VMware Client
- Internet Explorer 9
- Java
- Flash
- .Net Framework
- Microsoft® Silverlight
- Echo Agent
- Ultra VNC
- Adobe Reader
- Intel Manageability Engine Firmware
- Recovery Agent

**- LeTOS only:**

- xFreeRDP
- Citrix ICA Client
- VMware View Client
- Java
- Mozilla Firefox
- NX NoMachine Client
- X11 Client
- VDI-In-A-Box Java Client
- AnyConnect VPN Client

**Network-based Thin Client Management Tool** - Lenovo Thin Client Manager (LTM)

“*A license is included with the purchase of M32 and the utility is downloadable from website

**Security**

- Security slot (in rear for attachment of optional Kensington™ MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

**For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet**
**ThinkCentre M32 (10BM) - Thin Client (1-year depot)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Flash Memory</th>
<th>Optical</th>
<th>Graphics</th>
<th>DP to DVI dongle</th>
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<th>Keyboard/Mouse</th>
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- **Preloaded operating system**
  - **WES 7 only:**
    - Intel Management Engine Components
    - RDP Client
    - Citrix Client
    - VMware Client
    - Internet Explorer 9
    - Java
    - Flash
    - .Net Framework
    - Microsoft Silverlight
    - Echo Agent
    - Ultra VNC
    - Adobe Reader
    - Intel Manageability Engine Firmware Recovery Agent
- **LeTOS only:**
  - xFreeRDP
  - Citrix ICA Client
  - VMware View Client
  - Java
  - Mozilla Firefox
  - NX NoMachine Client
  - X11 Client
  - VDI-In-A-Box Java Client
  - AnyConnect VPN Client

- **Network-based Thin Client Management Tool** - Lenovo Thin Client Manager (LTM)
  - "A license is included with the purchase of M32 and the utility is downloadable from website"

- **Security**
  - Security slot (in rear for attachment of optional Kensington™ MicroSaver™ cable)
  - Power-on password
  - Administrator password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement
  - Serial port and parallel port disablement

**Limited Warranty**
- 1-years, depot repair service / service upgrades available

See footnotes for important warranty information

US model(s) announced September 3, 2013 or December 10, 2013

©Lenovo

(CLVL1-6) December 2013
### ThinkCentre M32 (10BM) - Thin Client (1-year onsite)

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</table>

#### Preloaded operating system
- **Some:** Genuine Windows® Embedded Standard 7 (WES 7)
- **Some:** LeTOS (Lenovo Terminal Operating System, Linux-based)

#### Preloaded applications (only some listed)
- **WES 7 only:**
  - Intel Management Engine Components
  - RDP Client
  - Citrix Client
  - VMware Client
  - Internet Explorer 9
  - Java
  - Flash
  - .Net Framework
  - Microsoft® Silverlight
  - Echo Agent
  - Ultra VNC
  - Adobe Reader
  - Intel Manageability Engine Firmware
  - Recovery Agent
- **LeTOS only:**
  - xFreeRDP
  - Citrix ICA Client
  - VMware View Client
  - Java
  - Mozilla Firefox
  - NX NoMachine Client
  - X11 Client
  - VDI-In-A-Box Java Client
  - AnyConnect VPN Client

#### Network-based Thin Client Management Tool
- Lenovo Thin Client Manager (LTM)*
- "A license is included with the purchase of M32 and the utility is downloadable from website"

#### Security
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

#### Machine
- Business black color; USFF (2L)
- Fanless, Cableless Design
- (Without stand) 2.2” W X 6.7” D X 8.7” H
  - (Without stand) 55mm W X 170mm D X 220mm H
  - (Without stand) 3.3 lbs (1.48 kg) in maximum configuration

#### Protocols
- Citrix: ICA, HDX (compatible with XenDesktop and XenApp)
- Microsoft: RDP, RemoteFX (WES 7 models only), RDS
- VMware: VMware Horizon View through RDP
- VMware Horizon View through PCoIP

#### Protocols
- ENERGY STAR® Gold rating (WES models)
- ENERGY STAR® 6.0 (WES models)
- GREENGUARD® certified
- RoHS-compliant
- WEEE
- REACH
- VMware Ready Certification
- Citrix Ready/HDX Ready Certification
- MS RemoteFX Certification (WES models)

#### For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

#### Limited Warranty
- **1-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

*1-year limited warranty*

---

See footnotes for important warranty information

US model(s) announced September 3, 2013
## ThinkCentre M32 (10BM) - Thin Client (3-year onsite)

### Product Specifications Reference (PSREF)

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### 3-year limited warranty

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**Processor**

Mainstream Thin Client with better security and manageability for the enterprise

- **Intel® Celeron® Processor 807** (1 cores / 2 threads, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, 1.1GHz, 2MB cache, integrated Intel HD Graphics, 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

**Intel® Celeron® Processor 847** (2 cores / 2 threads, 1.5GHz, 1.5MB cache), integrated Intel HD Graphics, 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

**Memory**

- 4GB max, PC3-12800 1600MHz DDR3* one 204-pin SODIMM socket (notebook)

* System automatically clocks down for processors with1333MHz DDR3 memory controller

**Graphics**

- Intel HD Graphics in processor, uses main memory, DirectX controller

**Memory**

- 4GB max, PC3-12800 1600MHz DDR3* one 204-pin SODIMM socket (notebook)

**Ethernet**

- One gigabit ethernet port, Realtek RTL8111F, Wake on LAN

**Audio**

High Definition (HD) Audio, Realtek ALC662-VD codec

**Speaker**

None

**IEEE 1394**

None

**Network Interface**

- One gigabit ethernet port, Realtek RTL8111F, Wake on LAN

**Intel AMT**

None

**DisplayPort**

- Optional DisplayPort to Single-link DVI-D dongle

**SATA controller**

- Serial ATA, SATA 3.0Gb/s support, integrated in chipset

**Onboard SATA**

- One SATA 3.0Gb/s connector for DOM Card

**Chipset**

- Mobile Intel NM70 Express Chipset

**Front ports**

- Four USB 2.0, microphone (3.5mm), headphone (3.5mm)

**Rear ports**

- Two USB 2.0, ethernet (RJ-45), two PS/2 ports (keyboard and mouse), one parallel, four serial ports (Customizable Pin definition for serial port 2, 3, and 4), one VGA, one DisplayPort

**PCIe Mini Card**

None

**PCle WLAN**

None

**Bluetooth**

None

**Audio**

- High Definition (HD) Audio, Realtek ALC662-VD codec

**Speaker**

None

**IEEE 1394**

None

**Ethernet**

- Supports VESA 100mm mount standard

**Power supply**

65 watts adapter, autoseensing 100-240V, 85% PSU

**Machine**

- Business black color; USFF (2L)

**Protocols**

- Citrix: ICA, HDX (compatible with XenDesktop and XenApp)

**Operating System**

- Windows Embedded Standard 7 (WES 7)

**Security**

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)

**Limited Warranty**

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

Please go to TC-AQP sheet; for Lenovo service upgrade options, please go to S-TC sheet.

For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet.
## ThinkCentre M32 (10BM) - Thin Client (GMP)

<table>
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<th>Processor</th>
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<th>Flash Memory</th>
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- **Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty**
- **3-year limited warranty**

### Preloaded operating system

- **Some:**
  - Genuine Windows® Embedded Standard 7 (WES 7)
  - Windows® Embedded Standard 7 (WES 7)

### Preloaded applications (only some listed)

- **WES 7 only:**
  - Intel Management Engine Components
  - RDP Client
  - Citrix Client
  - VMware Client
  - Internet Explorer 9
  - Java
  - Flash
  - .Net Framework
  - Microsoft® Silverlight
  - Echo Agent
  - Ultra VNC
  - Adobe Reader

### Network-based Thin Client Management Tool - Lenovo Thin Client Manager (LTM)

- A license is included with the purchase of M32 and the utility is downloadable from website.

### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Serial port and parallel port disablement

See footnotes for important warranty information

US model(s) announced September 3, 2013 or December 24, 2013

©Lenovo

(CLVL1-7) January 2014
ThinkCentre M53 Tiny

- ThinkCentre M53 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor
- ThinkCentre M53 Tiny with optional floor stand
- ThinkCentre M53 Tiny with optional VESA mount kit
- ThinkCentre M53 Tiny with optional optical box
- ThinkCentre M53 Tiny with optional I/O box
- ThinkCentre M53 Tiny
### ThinkCentre M53 Tiny Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Max/Base)</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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<tbody>
<tr>
<td>Intel Celeron J1800</td>
<td>2 / 2</td>
<td>2.58 / 2.41 GHz</td>
<td>1MB</td>
<td>DDR3L-1333</td>
<td>Intel HD</td>
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<tr>
<td>Intel Pentium J2900</td>
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<td>2.58 / 2.41 GHz</td>
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<td>DDR3L-1333</td>
<td>Intel HD</td>
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</table>

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip.

#### Chipset

Platform Controller Hub (PCH) in one chip. Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip.

#### Graphics

Intel HD Graphics in processor, uses main memory, DirectX™ 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz

#### Monitor cable

Optional DisplayPort to HDMI or DisplayPort to HDMI monitor cable.

#### Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket

* System automatically clocks down for processors with 333MHz DDR3 memory

#### Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card

Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm

Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide

Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB

Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Some: SATA 3.0Gb/s controller, one connectors on planar

#### Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide

#### Onboard SATA Media reader

None

#### Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

#### Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

#### I/O box

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Some: Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

#### Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

#### WLAN

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1

Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Mechanical

- Tiny (1L), business black color; metal case
- M53 Tiny only:
  - 7.0" W X 7.2" D X 1.4" H
  - 179mm W X 182mm D X 34.5mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration
  - With VESA mount & optical box:
    - 7.2" W X 7.2" D X 2.55" H
    - 184mm W X 182mm D X 65mm H
  - 4.6 lb (2.1 kg), weight may vary by configuration

### Floor Stand

Optional VESA mount bracket kit, supports VESA 75 and 100mm

### Power supply

65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

### Limited warranty

Some: 1-year, depot service / service upgrades available

Some: 1-year or 3-year, limited onsite service / service upgrades available

Some: 3-year, limited onsite service, IWS (International Warranty Service) / service upgrades available

For Lenovo service upgrade options, please go to S-TC sheet

### Preload

Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Some: Windows 7 Professional 64-bit

Some: Windows 8.1 Pro 64-bit

Some: Windows 8.1 with Bing 64-bit

Ready to install applications (for Win7):
- Rescue and Recovery™
- Password Manager
- Web install applications (for Win8.1)
- Password Manager

Preloaded applications (only some listed):
- ThinkVantage System Update
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Lenovo Reach
- Lenovo SHAREit
- Norton™ Internet Security
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW, DVD)
- Cyberlink PowerProducer (DVDRW)
- Evernote®
- Nitro Pro
- Only for Windows 7:
  - ThinkVantage® Product Recovery
  - ThinkVantage Communication Utility
  - ThinkVantage Device Experience
  - View Management Utility
  - Lenovo Message Center Plus
- Only for Windows 8.1:
  - Cyberlink PowerDVD (DVDRW)
  - Cyberlink PowerProducer (DVDRW)
  - Evernote®

### Environment

ENERGY STAR® 6.0 (for Windows models only);
- GREEGUARD®; RoHS-compliant; Cisco EnergyWise compatible; Eer Lot 3

### Accessories

For compatible accessories, please go to TC-AQP sheet

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See footnotes for more detailed information © Lenovo (MSL1-Spec) December 2014
ThinkCentre M53 Tiny (10DC) - TopSeller

| Model       | Processor                  | Memory               | Graphics                      | Storage            | External Optical / I/O box | Optional Port | Monitor Cable | Chassis Intrusion Switch | VESA Mount | Floor Stand | Key/Board Mouse | Internal Speaker | Power Supply | Kensington Cable Lock | Preload | Base Warranty (year) | Global     | Ann Date (mm/yy) |
|-------------|----------------------------|----------------------|-------------------------------|--------------------|---------------------------|---------------|---------------|--------------------------|-------------|--------------|----------------|----------------|--------------|----------------------|---------|----------------|-------------|----------------|}
| 10DC0011US  | Pentium J2900 4GBx1        | Intel HD             | 500GB SSD 7200               | None               | 7260 b/g/n                | None          | None          | None                     | None        | US           | Speaker          | 6W                | None         | Win7                  | P64 D3 Win8.1 | 3-onsite        | No          | 08/14          |
| 10DC0012US  | Pentium J2900 8GBx1        | Intel HD             | 256GB SSD OPAL               | None               | 7260 b/g/n                | None          | None          | None                     | None        | US           | Speaker          | 6W                | None         | Win7                  | P64 D3 Win8.1 | 3-onsite        | No          | 08/14          |
| 10DC001GUS  | Pentium J2900 4GBx1        | Intel HD             | 500GB SSD 7200               | None               | RTL8723BE                 | None          | None          | None                     | None        | US           | Speaker          | 6W                | None         | Win7                  | P64 D3 Win8.1 | 1-onsite        | No          | 12/14          |

* For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet

Processor
- Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop

Chipset
- Intel® Microarchitecture 3rd generation / Kaby Lake (J2000 series)
- Intel® Microarchitecture 4th generation / Broadwell (J1000 series)

Graphics
- Intel HD Graphics 600 (J2000 series)
- Intel HD Graphics 530 (J1000 series)

Monitor cable
- DVI-D to DVI-D or HDMI to DVI-D cable

Memory
- 8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket

Storage
- SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
- SATA 3.0Gb/s, 2.5" Wide, hybrid hard disk / with 8GB MLC NAND flash memory

Optical
- Optical drive options: DVD±RW, DVD-ROM, Blu-ray, Solid State Drive (SSD)

Onboard SATA Media reader
- 3.0Gb/s, 2.5" wide, one 204-pin SO-DIMM socket

Front ports
- USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports
- VGA DB-15, Video Monitor port, three USB 2.0, one Ethernet port

I/O box
- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), one 2.0 port

Audio support
- High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN™
- 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1

Bluetooth™
- Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethmod
- One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

Manageability
- None

Security chip
- None

Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power-on password
- Administrator password

Mechanical
- Tiny (1L), business black color; metal case
- M53 Tiny only:
  - 7.0" W X 7.2" D X 1.4" H
  - 179mm W X 182mm D X 34.5mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration
- VESA mount & optical box:
  - 7.2" W X 7.2" D X 2.55" H
  - 184mm W X 182mm D X 65mm H
  - 4.6 lb (2.1 kg), weight may vary by configuration

Keyboard
- USB:
  - Preferred Pro USB Keyboard (USB connector), Lenovo logo
  - USB (Slim):
    - Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
- 2.4G:
  - Ultrasonic Plus Wireless Keyboard (2.4GHz via USB receiver), black, Lenovo logo
  - Enhanced Optical USB Mouse, black, Lenovo logo
  - Ultrasonic Plus Wireless Mouse (2.4GHz via USB receiver), black

Mouse
- 2.4G:
  - Ultrasonic Plus Wireless Mouse (2.4GHz via USB receiver), black

Power supply
- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty
- Some:
  - 1-year, depot service / service upgrades available
  - 1-year or 3-year, limited onsite service / service upgrades available
  - 3-year, limited onsite service, IWS (International Warranty Service) / service upgrades available
- For Lenovo service upgrade options, please go to S-TC sheet

Preload
- Some:
  - Windows® 7 Professional 64 preinstalled through 64-bit rights in Windows 8.1 Pro 64-bit
  - Windows 7 Professional
  - Windows 8.1 64-bit
  - Windows 8.1 Pro 64-bit
  - Windows 8.1 with Bing 64-bit
  - Genuine Windows® Embedded Standard 7 (WES 7)
  - LeTOS (Lenovo Terminal Operating System, Linux-based)

Environment
- ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories
- For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information © Lenovo (MSL1-1) January 2015
### Processor

<table>
<thead>
<tr>
<th>Model</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>External</th>
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<th>Monitor Cable</th>
<th>Chassis</th>
<th>Intrusion Switch</th>
<th>Floor Stand</th>
<th>VESA Mount</th>
<th>Keyboard / Mouse</th>
<th>Internal</th>
<th>Power Supply</th>
<th>Kensington</th>
<th>Cable Lock</th>
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<td>1-onsite</td>
<td>12/14</td>
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</tbody>
</table>

### Chipset

- Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop
- Intel® Pentium® Processor J2000 Series* for Desktop
- Intel® Celeron® Processor J1800 Series

### Graphics

- Intel HD Graphics in processor, uses main memory, DirectX 11.
- One DisplayPort supports dual independent displays.
- Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz.
- Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable.

### Memory

- 8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
- *System automatically clocks down for processors with 1333MHz DDR3 memory controller

### Storage

- Some: 8GB or 16GB / DOM (Disk On Module) Card
- Some: SATA 3.0Gb/s, 2.5 Wide, 5400 or 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5 wide
- Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5 Wide
- Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
- Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB SATA 3.0Gb/s controller, one connectors on planar

### Onboard SATA Media reader

- None

### Front ports

- One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### Rear ports

- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), Ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

### I/O box

- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

### Audio support

- High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

### WLAN™

- Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2

### Bluetooth™

- Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Modem

- None

### Manageability

- None

### Security chip

- None

### Security features

- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Hard disk password
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Boot sequence control
- Individual USB port disablement
- Administrator password
- Boot without keyboard and mouse
- Optional Chassis intrusion switch

### Mechanical

- Tiny (1L), business black color; metal case
- Mechanical

### Keyboard

- Preferred Pro USB Keyboard (USB connector), Lenovo logo

### Mouse

- Enhanced Optical USB Mouse, black, Lenovo logo

### Floor Stand

- Optional system floor stand for vertical orientation

### Preload

- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Windows 7 Professional

### Limited warranty

- 1-year, depot service / service upgrades available
- 3-year, limited onsite service, IWS (International Warranty Service) / service upgrades available
- For Lenovo service upgrade options, please go to S-TC sheet
- Some: 1-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available
- Some: Genuine Windows® Embedded Standard 7 (WES 7)
- Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

### Environment

- ENERGY STAR® 6.0 (for Windows models only); GREEenguARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

### Accessories

- For compatible accessories, please go to TC-AQP sheet
## ThinkCentre M53 Tiny (10ED) - Thin Client (TopSeller)

### Model Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>External Optical / I/O box</th>
<th>WLAN</th>
<th>Optional Port</th>
<th>Monitor Cable</th>
<th>Chassis Intrusion Switch</th>
<th>Floor Stand</th>
<th>VESA Mount</th>
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### Processor

- **Intel® Celeron® Processor J1000 Series** for Desktop or Intel Pentium® Processor J2000 Series for Desktop
- **Intel® Core™ Processor** for Desktop or Intel Pentium® Processor for Desktop
- **Processor J2000 Series** for Desktop

**Core / Threads**:
- 2 / 2
- 4 / 4

**Frequency (Max/Base)**:
- 2.58 / 2.41 GHz
- 2.58 / 2.41 GHz

**Cache**:
- 1MB
- 2MB

**Memory Types**:
- DDR3L-1333
- DDR3L-1333

**Integrated Graphics**:
- Intel HD
- Intel HD

### Chipset

- Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

### Graphics

- Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™ supports dual independent displays.
- Maximum resolution: 2560x1600 (DisplayPort™) @ 60Hz; 1920x1200 (VGA) @ 60Hz
- Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

### Monitor cable

- Optional system floor stand for vertical orientation

### Memory

- 8GB max / 123D Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket

### Storage

- Some: 8GB or 16GB / DOM (Disk On Module) Card
- Some: SATA 3.0Gb/s, 2.5” Wide, 5400 or 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5” wide
- Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5” Wide
- Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
- Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB
- Some: SATA 3.0Gb/s controller, one connectors on planar

### Optical

- Onboard SATA Media reader:
  - None

### Front ports

- One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### Rear ports

- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

### I/O box

- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

### Audio support

- High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

### WLAN

- Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
- Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

### Bluetooth™

- Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

### Environment

- ENERGY STAR® 6.0 (for Windows models only);
- GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

### Manageability

- None

### Security chip

- None

### Security features

- None
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard / mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

### Mechanical

- Tiny (1L), business black color; metal case

### Keyboard

- USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
- USB(Slim): Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo

### Mouse

- 2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
- 2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

### Power supply

- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

### Limited warranty

- Some: 1-year, depot service / service upgrades available
- Some: 1-year or 3-year, limited onsite service / service upgrades available
- Some: 3-year, limited onsite service, IWS (International Warranty Service) / service upgrades available
- For Lenovo service upgrade options, please go to S-TC sheet

### Preload

- Some: Windows® 7 Professional 64 preinstalled through upgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 7 Professional 64
- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit
- Some: Windows 8.1 with Bing 64-bit
- Some: Genuine Windows® Embedded Standard 7 (WES 7)
- Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

### Environment

- ENERGY STAR® 6.0 (for Windows models only);
- GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

### Accessories

- For compatible accessories, please go to TC-AQP sheet

---

*For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet

---

See footnotes for more detailed information
<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>External Optical / I/O box</th>
<th>WLAN</th>
<th>Optional Port</th>
<th>Monitor Cable</th>
<th>Chassis Intrusion Switch</th>
<th>Floor Stand</th>
<th>VESA Mount</th>
<th>Key-board/ Mouse</th>
<th>Internal Speaker</th>
<th>Power Supply</th>
<th>Kensington Cable Lock</th>
<th>Preload</th>
<th>Base Warranty (year)</th>
<th>Ann Date (mm/yy)</th>
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<tbody>
<tr>
<td>10DB000WUS</td>
<td>Pentium J2900</td>
<td>4GBx1</td>
<td>Intel HD</td>
<td>500GB</td>
<td>None</td>
<td>7260 b/g/n</td>
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<td>Win7</td>
<td>P64 DG Win8.1</td>
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<td>Pentium J2900</td>
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<td>USB Speaker</td>
<td>65W</td>
<td>None</td>
<td>None</td>
<td>Win7</td>
<td>P64 DG Win8.1</td>
<td>3-onsite</td>
</tr>
</tbody>
</table>

**Processor**

Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop

**Chipset**

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

**Graphics**

Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

**Monitor cable**

Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

**Memory**

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket

**Storage**

Some: 8GB or 16GB / DOM (Disk On Module) Card

Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm

Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5" wide

**Optical**

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide

Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB

Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB

Onboard SATA 3.0Gb/s controller, one connectors on planar

**Front ports**

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

**Rear ports**

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

**I/O box**

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

**Audio support**

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

**WLAN™**

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1

Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2

**Bluetooth™ Ethernet Modem**

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

**Environmental**

Energy STAR® 6.0 (for Windows models only);

GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; EiP Lot 3

**Accessories**

For compatible accessories, please go to TC-AQP sheet

---

For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Max/Base)</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Celeron J1800</td>
<td>2 / 2</td>
<td>2.58 / 2.41 GHz</td>
<td>1MB</td>
<td>DDR3L-1333</td>
<td>Intel HD</td>
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<tr>
<td>Pentium J2900</td>
<td>4 / 4</td>
<td>2.58 / 2.41 GHz</td>
<td>2MB</td>
<td>DDR3L-1333</td>
<td>Intel HD</td>
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<table>
<thead>
<tr>
<th>Security features</th>
<th>Manageability</th>
<th>Security chip</th>
<th>Security features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security slot (in rear for optional Kensington® MicroSaver® cable)</td>
<td>None</td>
<td>None</td>
<td>Hard disk password</td>
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<tr>
<td>Smart USB protection, allows keyboard/ mouse only, blocks all storage devices</td>
<td>None</td>
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<td>Boot sequence control</td>
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<td>Power-on password</td>
<td>None</td>
<td>None</td>
<td>Boot without keyboard and mouse</td>
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<td>Administrator password</td>
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<td>Individual USB port disaballment</td>
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<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Security features</th>
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<tbody>
<tr>
<td>Tiny (1L), business black color; metal case</td>
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</tr>
<tr>
<td>M53 Tiny only: 7.0” W X 7.2” D X 1.4” H</td>
<td>None</td>
</tr>
<tr>
<td>179mm W X 182mm D X 34.5mm H</td>
<td>None</td>
</tr>
<tr>
<td>2.9 lb (1.3 kg), weight may vary by configuration</td>
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<tr>
<td>With VESA mount &amp; optical box: 7.2” W X 7.2” D X 2.55” H</td>
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<td>184mm W X 185mm D X 65mm H</td>
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<td>4.6 lb (2.1 kg), weight may vary by configuration</td>
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<tr>
<td>VESA mount</td>
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</tr>
<tr>
<td>Optional VESA mount bracket kit, supports VESA 75mm and 100mm</td>
<td>None</td>
</tr>
<tr>
<td>Floor Stand</td>
<td>None</td>
</tr>
<tr>
<td>Optional system floor stand for vertical orientation</td>
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<table>
<thead>
<tr>
<th>Power supply</th>
<th>Security features</th>
</tr>
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<tbody>
<tr>
<td>65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)</td>
<td>None</td>
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<table>
<thead>
<tr>
<th>Limited warranty*</th>
<th>Security features</th>
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<tr>
<td>Some: 1-year, depot service / service upgrades available</td>
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<tr>
<td>Some: 1-year or 3-year, limited onsite service / service upgrades available</td>
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<tr>
<td>Some: 3-year, limited onsite service, IWS (International Warranty Service) / service upgrades available</td>
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For Lenovo service upgrade options, please go to S-TC sheet

<table>
<thead>
<tr>
<th>Preload</th>
<th>Security features</th>
</tr>
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<tbody>
<tr>
<td>Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit</td>
<td>None</td>
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<tr>
<td>Some: Windows 7 Professional 64</td>
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<td>Some: Windows 8.1 64-bit</td>
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<td>Some: Windows 8.1 Pro 64-bit</td>
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<tr>
<td>Some: Windows 8.1 with Bing 64-bit</td>
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</tr>
<tr>
<td>Some: Genuine Windows® Embedded Standard 7 (WES 7)</td>
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<tr>
<td>Some: LeTOS (Lenovo Terminal Operating System, Linux-based)</td>
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<table>
<thead>
<tr>
<th>Environment</th>
<th>Security features</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENERGY STAR® 6.0 (for Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; EiP Lot 3</td>
<td>None</td>
</tr>
</tbody>
</table>

See footnotes for more detailed information

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### ThinkCentre M53 Tiny (10DD)

**Model** | **Processor** | **Memory** | **Graphics** | **Storage** | **External Optical / I/O box** | **WLAN** | **Optional Port** | **Monitor Cable** | **Chassis Intrusion Switch** | **Floor Stand** | **VESA Mount** | **Keyboard/ Mouse** | **Internal Speaker** | **Power Supply** | **Kensington Cable Lock** | **Preload** | **Base Warranty (year)** | **Global** | **Ann Date (mm/yy)**
10DD000QUS | Celeron J1800 | 8GBx1 | Intel HD | 256GB SSD | None | 7260 b/g/n | None | None | None | None | None | USB | Speaker | 65W | None | Win7 P64 DG | Win8.1 3-onsite | No | 08/14
10DD000PUS | Celeron J1800 | 4GBx1 | Intel HD | 500GB 7200 | None | 7260 b/g/n | None | None | None | None | None | USB | Speaker | 65W | None | Win7 P64 DG | Win8.1 3-onsite | No | 08/14

---

### Processor

<table>
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<tr>
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<tr>
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<td>2 / 2</td>
<td>2.58 / 2.41 GHz</td>
<td>1MB</td>
<td>DDR3L-1333</td>
<td>Intel HD</td>
</tr>
<tr>
<td>Pentium J2900</td>
<td>4 / 4</td>
<td>2.58 / 2.41 GHz</td>
<td>2MB</td>
<td>DDR3L-1333</td>
<td>Intel HD</td>
</tr>
</tbody>
</table>

### Chipset

Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip.

### Graphics

Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent displays. Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz.

### Monitor cable

Optional DisplayPort to DVI or DisplayPort to HDMI monitor cable.

### Memory

8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket

### Storage

Some: 8GB or 16GB / DOM (Disk On Module) Card
Some: SATA 3.0Gb/s, 2.5” Wide, 5400 or 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5” wide

### Optical

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5” Wide
Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB

### Onboard SATA Media reader

Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB
Some: SATA 3.0Gb/s controller, one connectors on planar
None

### Front ports

One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

### I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

### Audio support

High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

### WLAN

Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

### Bluetooth™

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

### Environment

ENERGY STAR® 6.0 (for Windows models only);
GREENGUARD®, RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

### Accessories

For compatible accessories, please go to TC-AQP sheet

---

For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet.

---

For Lenovo service upgrade options, please go to S-TC sheet.

---

Limited warranty: Some: 1-year, depot service / service upgrades available
Some: 1-year or 3-year, limited onsite service / service upgrades available
Some: 3-year, limited onsite service, IWS (International Warranty Service) / service upgrades available
For Lenovo service upgrade options, please go to S-TC sheet

---

Preload: Some: Windows® 7 Professional 64 preinstalled through
Some: Windows 7 Professional 64
Some: Windows 8.1 64-bit
Some: Windows 8.1 Pro 64-bit
Some: Windows 8.1 with Bing 64-bit
Some: Genuine Windows® Embedded Standard 7 (WES 7)
Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

---

See footnotes for more detailed information © Lenovo (MSL1-4) September 2014
# ThinkCentre M53 Tiny (10DX) - TIO models

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>External Optical / I/O box</th>
<th>Optional Port</th>
<th>Monitor Cable</th>
<th>Chassis Intrusion Switch</th>
<th>Floor Stand</th>
<th>VESA Mount</th>
<th>Key-board/ Mouse</th>
<th>Internal Speaker</th>
<th>Power Supply</th>
<th>kensington Cable Lock</th>
<th>Preload</th>
<th>Base Warranty (year)</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10DX000JUS</td>
<td>Celeron J1800 2.58 GHz</td>
<td>4 GB</td>
<td>Intel HD</td>
<td>500 GB</td>
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<td>None</td>
<td>None</td>
<td>Switch</td>
<td>None</td>
<td>None</td>
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<td>USB</td>
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<td>None</td>
<td>Win7</td>
<td>3-onsite, IWS</td>
<td>Global</td>
</tr>
<tr>
<td>10DX000KUS</td>
<td>Celeron J1800 2.58 GHz</td>
<td>4 GB</td>
<td>Intel HD</td>
<td>500 GB</td>
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<td>Switch</td>
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<td>None</td>
<td>None</td>
<td>USB</td>
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<td>None</td>
<td>Win7</td>
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<td>Global</td>
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## Processor

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<td>2 MB</td>
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<td>Intel HD</td>
</tr>
</tbody>
</table>

## Chipset

- Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip.

## Graphics

- Intel HD Graphics in processor, uses main memory, DirectX 11, one VGA, one DisplayPort, supports dual independent display.
- Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz.
- Optional DisplayPort to DVI or DisplayPort to HDMI monitor cable.

## Monitor cable

- Optional external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB.
- Optional external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB.

## Memory

- 8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket.
- * System automatically clocks down for processors with 1333MHz DDR3 memory controller.

## Storage

- Some: 8GB or 16GB / DOM (Disk On Module) Card
- Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory.
- SATA 3.0Gb/s, 2.5" wide

## Optical

- Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
- Some: external optical box with slim DVD-R, 12.7mm high, tray-in, via USB
- Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB
- SATA 3.0Gb/s controller, one connector on planar

## Mechanical

- Mechanical features:
  - Tiny (1L), business black color; metal case
  - M53 Tiny only:
    - 7.0" W x 7.2" D x 1.4" H
    - 179mm W x 182mm D x 34.5mm H
    - 2.9 lb (1.3 kg), weight may vary by configuration
  - With VESA mount & optical box:
    - 7.2" W x 7.2" D x 2.55" H
    - 184mm W x 185mm D x 65mm H
    - 4.6 lb (2.1 kg), weight may vary by configuration
  - VESA mount:
    - Optional VESA mount bracket kit, supports VESA 75mm and 100mm
  - Floor Stand:
    - Optional system floor stand for vertical orientation

## Front ports

- One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)
- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

## Rear ports

- One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

## I/O box

- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

## Audio support

- High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 wатт)
ThinkCentre M53 Tiny (10EC) - Thin Client

Model | Processor | Memory | Graphics | Storage | External Optical / I/O box | Monitor Cable | Chassis Intrusion Switch | Floor Stand | VESA Mount | Keyboard/ Mouse | Internal Speaker | Power Supply | Kensington Cable Lock | Warranty (year) | Base Warranty (year) | Global | Ann Date (mm/yy)

10EC000HJS | Celeron J1800 2GBx1 | Intel HD 16GB DOM Card | None | None | None | None | None | None | None | None | USB Speaker | 65W | None | LeTOS | 1-onsite | No | 12/14

10EC000LJS | Celeron J1800 4GBx1 | Intel HD 8GB DOM Card | RTL8723BE | None | None | None | None | None | None | None | USB Speaker | 65W | None | LeTOS | 1-onsite | No | 12/14

10EC000NUS | Celeron J1800 2GBx1 | Intel HD 16GB DOM Card | RTL8723BE | None | None | None | None | None | None | None | USB Speaker | 65W | None | WES7 | 1-onsite | No | 01/15

10EC000JUS | Celeron J1800 4GBx1 | Intel HD 16GB DOM Card | RTL8723BE | None | None | None | None | None | None | None | USB Speaker | 65W | None | LeTOS | 1-onsite | No | 01/15

10EC000HUS | Celeron J1800 2GBx1 | Intel HD 8GB DOM Card | None | None | None | None | None | None | None | None | USB Speaker | 65W | None | WES7 | 1-onsite | No | 12/14

For detailed platform specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet

Processor: Intel® Celeron® Processor J1000 Series* for Desktop or Intel Pentium® Processor J2000 Series* for Desktop

Chipset:
- Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

Graphics:
- Intel HD Graphics in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™ supports dual independent displays
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz

Monitor cable:
- Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

Memory:
- 8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
- * System automatically clocks down for processors with 1333 MHz DDR3 memory controller

Storage:
- Some: 8GB or 16GB / DOM (Disk On Module) Card
- Some: SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory
- Some: SATA 3.0Gb/s, 2.5" wide

Optical:
- Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
- Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
- Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB
- Some: SATA 3.0Gb/s controller, one connectors on panel

Onboard SATA Media reader:
- None

Front ports:
- One USB 3.0 (Always On / Powered), one USB 2.0, one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports:
- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort, one optional port (USB 2.0 or serial on selected models)

I/O box:
- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

Audio support:
- High Definition (HD) Audio, Realtek ALC283 / optional internal speaker (1.5 watt)

WLAN™:
- Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- Some: 11b/g/n wireless, Realtek RTL8129EE, Wi-Fi + BT 4.0 combo, 2x2

Bluetooth™ Ethernet Modem:
- Some: Bluetooth 4.0, integrated in Wi-Fi + Bluetooth combo adapter

Environment:
- ENERGY STAR® 6.0 (for Windows models only);
- GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

Accessories:
- For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information
ThinkCentre M73 Tiny, Small, Mini Tower - II

ThinkCentre M73 Small and Mini Tower

ThinkCentre M73 Small with ThinkVision Monitor

ThinkCentre M73 Small

ThinkCentre M73 Mini Tower with ThinkVision Monitor

ThinkCentre M73 Mini Tower

ThinkCentre M73 Mini Tower
## **ThinkCentre M73 Tiny (10AY) - Thin Client (TopSeller)**

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Flash Memory</th>
<th>External optical / I/O box</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Optional port</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA mount</th>
<th>Keyboard / mouse</th>
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<td>WES 7</td>
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</tbody>
</table>

- 1-year depot warranty

### Positioning

**Essential business features, exceptional value**

### Processor

**Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller**

### Implementation

Processor in LGA1150 socket

### Memory

16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook), System automatically clocks down for processors with 1333MHz DDR3 memory controller

### Graphics

Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

### Flash Memory

8GB / DOM (Disk On Module) Card

### SATA controller

Serial ATA, SATA 6.0Gb/s support, integrated in chipset

### Onboard SATA eSATA port

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

### Chipset

**Intel H81 Express Chipset**

### Front ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### Rear ports

Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)

### I/O box

Optional external I/O box extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

### PCIe Mini Card

One PCI Express® Mini Card slot

### PCIe WLAN

Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

### Bluetooth Audio

High Definition (HD) Audio, Realtek® ALC283 codec

### Speaker

Internal speaker for business audio (1.5 watt)

### Ethernet

Gigabit ethernet port, Intel I217-V, Wake on LAN®

### Intel AMT

None

### Modern

None

### Security chip

None

### Keyboard Mouse

Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo

### Floor Stand

Optional System floor stand for vertical orientation

### VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

### Power supply

65 watts AC/DC adapter, autosensing, 88% PSU

### Mechanical

- Tiny (1L), business black color; metal case
- **M73 Tiny only:** 7.0" W X 7.2" D X 1.4" H 173mm W X 182mm D X 34.5mm H 2.9 lb (1.3 kg), weight may vary by configuration
- **With VESA mount & optical box:** 7.2" W X 7.2" D X 2.55" H 184mm W X 182mm D X 65mm H 5.1lb (2.3 kg), weight may vary by configuration

### Limited Warranty

1-years - depot repair service / service upgrades available

---

Preloaded operating system

- Some: Genuine Windows® Embedded Standard 7 (WES 7)
- Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

Preloaded applications (only some listed)

- **WES 7 only:**
  - Intel Management Engine Components
  - RDP Client
  - Citrix Client
  - VMware Client
  - Internet Explorer 9
  - Java
  - Flash
  - .Net Framework
  - Microsoft® Silverlight
  - Echo Agent
  - Ultra VNC
  - Adobe Reader
  - Intel Manageability Engine Firmware Recovery Agent

- **LeTOS only:**
  - xFreeRDP
  - Citrix ICA Client
  - VMware View Client
  - Java
  - Mozilla Firefox
  - NX NoMachine Client
  - X11 Client
  - VDI-In-A-Box Java Client
  - AnyConnect VPN Client

### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- **Chassis intrusion switch on selected model(s)**

### Preloaded applications (only some listed)

- **WES 7 only:**
  - Intel Management Engine Components
  - RDP Client
  - Citrix Client
  - VMware Client
  - Internet Explorer 9
  - Java
  - Flash
  - .Net Framework
  - Microsoft® Silverlight
  - Echo Agent
  - Ultra VNC
  - Adobe Reader
  - Intel Manageability Engine Firmware Recovery Agent

- **LeTOS only:**
  - xFreeRDP
  - Citrix ICA Client
  - VMware View Client
  - Java
  - Mozilla Firefox
  - NX NoMachine Client
  - X11 Client
  - VDI-In-A-Box Java Client
  - AnyConnect VPN Client

### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
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- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- **Chassis intrusion switch on selected model(s)**

### Limited Warranty

1-years - depot repair service / service upgrades available

---

See footnotes for important warranty information

US model(s) announced February 25, 2013

©Lenovo (MLM1N-6) February 2014
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</table>

**Preloaded operating system**
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications (only some listed)**
- Rescue and Recovery™
- Password Manager

**Preloaded applications (only some listed)**
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

**Security**
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disabling
- Chassis intrusion switch on selected model(s)

**Specifications**
- M73 Tiny (10AY) - TopSeller
- ThinkCentre M73 Tiny (10AY)
- System automatically clocks down for processors with 1333MHz memory controller
- Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.66GHz, 2MB cache), Intel® HD Graphics, 1333MHz DDR3 memory controller
- Intel® Pentium® G3220T Processor (2 cores / 2 threads, 2.66GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.6GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- Intel® Core i5-4570T Processor (2 cores / 4 threads, 2.61GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel® Core i7-4750T Processor (4 cores / 8 threads, 2.0GHz, 6MB cache), SpeedStep, Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Processor in LGA1150 socket

**Graphics**
- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory
- Intel HD Graphics, 1333MHz DDR3 memory controller
- Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Memory**
- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)
- System automatically clocks down for processors with 1333MHz memory controller

**Disk**
- Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

**External optical/SATA controller**
- Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0

**Onboard SATA eSATA port**
- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

**Chipset**
- Intel H81 Express Chipset

**Front ports**
- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

**Rear ports**
- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)

**I/O box**
- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

**PCle Mini Card**
- One PCI Express® Mini Card slot

**PCle WLAN**
- Some: 11ac/a/b/g/n wireless, PCle Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2

**Audio**
- Intel® HD Audio, Realtek® ALC298 codec

**Speaker**
- Internal speaker for business audio (1.5 watt)

**Ethernet**
- Gigabit ethernet port, Intel i217-V, Wake on LAN®

**Intel AMT**
- None

**Security chip**
- None

**Keyboard**
- Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

**Mouse**
- Enhanced Optical USB Mouse, black, Lenovo logo

**Floor Stand**
- Optional System floor stand for vertical orientation

**VESA mount**
- Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

**Power supply**
- 65 watts AC/DC adapter, autosensing, 88% PSU

**Mechanical**
- Tiny (1L), business black color; metal case
  - M73 Tiny only: 7.0" W X 7.2" D X 1.4" H
  - With VESA mount & optical box: 7.0" W X 7.2" D X 2.55" H

**Limited Warranty**
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

*See footnotes for important warranty information*

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US model(s) announced Oct 1, Oct 22, or Nov 12, 2013 or Jan 14 or Feb 11, 2014

(MLM1N1-1) February 2014
ThinkCentre M73 Tiny (10AY) - TopSeller - II

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</table>

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning
- Processor: Intel® Pentium® G3220T Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
  - Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller

Memory
- 16GB max, Implementation Processor in LGA1150 socket

Graphics
- Intel HD Graphics or Intel HD Graphics 4400/4600
  - Maximum resolution: 2560x1600 (DisplayPort)@60Hz, 1920x1200 (VGA)@60Hz (Reduced Blanking)

Disk
- Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm

External optical
- None

SATA controller
- Serial ATA, SATA 6.0Gb/s support, integrated in chipset

Onboard SATA
- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Chipset
- Intel H81 Express Chipset

Front ports
- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports
- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)

I/O box
- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

PCie Mini Card
- One PCI Express® Mini Card slot

PCie WLAN
- Some: 11b/g/n wireless, PCie Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2

Bluetooth Audio
- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Speaker
- High Definition (HD) Audio, Realtek® ALC283 codec

Ethernet
- Gigabit ethernet port, Intel I217-V, Wake on LAN™

Intel AMT
- None

Security chip
- None

Keyboard
- Preferred Pro USB Keyboard (USB connector), black, Lenovo™ logo

Mouse
- Enhanced Optical USB Mouse, black Lenovo logo

Floor Stand
- Optional System floor stand for vertical orientation

VESA mount
- Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

Power supply
- 55 watts AC/DC adapter, autoselecting, 88% PSU

Mechanical
- Tiny (1L), business black color; metal case
- M73 Tiny only: 7.0” W X 7.2” D X 1.4” H, 179mm W X 182mm D X 34.5mm H, 2.8 lb (1.3 kg), weight may vary by configuration
- With VESA mount & optical box: 7.2” W X 7.2” D X 2.55” H, 184mm W X 182mm D X 65mm H, 5.1b (2.3 kg), weight may vary by configuration

Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
<table>
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<th>External optical / I/O box</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
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<th>Chassis intrusion switch</th>
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<td>Win7 P64 DG Win8.1 10/14/14</td>
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Positioning

Processor

- Intel® Pentium® G3240T Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- Intel Core™ i3-4150T Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- Intel Core i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i7-4785T Processor (4 cores / 8 threads, 2.2GHz, 8MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Implementation

Memory

- 16GB max, PCI-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)
- System automatically clocks down for processors with 1333MHz memory controller

Graphics

- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort, supports up to dual independent display
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1152 (VGA)@60Hz (Reduced Blanking)

DP dongle

- None

Disk

- Some: harddisk, 2.5" Wide, 5400 or 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

External optical

- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

SATA controller

- Serial ATA, SATA 6.0Gb/s support, integrated in chipset

Onboard SATA eSATA port

- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

Chipset

Intel H81 Express Chipset

Front ports

- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)

I/O box

- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

PCle Mini Card

- One PCI Express Mini Card slot

PCle WLAN

- Some: 11a/b/g/n wireless, PCle Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT 4.0 combo adapter
- Some: 11b/g/n wireless, PCle Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1

Audio

- High Definition (HD) Audio, Realtek® ALC823 codec

Speaker

- Internal speaker for business audio (1.5 watt)

Ethernet

- Gigabit ethernet port, Intel i217-V, Wake on LAN®

Intel AMT

- None

Security chip

- None

Keyboard

- Some: Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
- Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo

Mouse

- Enhanced Optical USB Mouse, black, Lenovo logo

Floor Stand

- Optional System floor stand for vertical orientation

VESA mount

- Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

Power supply

- 65 watts AC/DC adapter, autosensing, 88% PSU

Mechanical

- Tiny (1L), business black color; metal case
- M73 Tiny only:
  - 7.0" W X 7.2" D X 1.4" H
  - 179mm W X 182mm D X 34.5mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration
- With VESA mount & optical box:
  - 7.2" W X 7.2" D X 2.55" H
  - 184mm W X 182mm D X 65mm H
  - 5.1lb (2.3 kg), weight may vary by configuration

Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Some: Windows 7 Professional 64-bit preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64-bit preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded: purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

Standards

- ENERGY STAR® Gold rating
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

©Lenovo (MLM1N-8) October 2014
ThinkCentre M73 Small (10B6) - TopSeller

Product Specifications Reference (PSREF)

Type-model | Slot x bay | Processor | Memory | SATA disk | GB rpm | SATA optical | PCIe WLAN | Media reader | Graphics | Chassis Intrusion switch | 2nd Serial / Parallel | Floor stand | ENERGY STAR 6.0 | Global | Preload | Ann date (mm/dd/yy)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
10B6000BUS | 3x4 | i5-4570 | 4GBx1 | 500G 7200 | DVD±RW | None | None | HD 4600 | None | None | Stand | None | None | None | Win7 Pro64 (DG) | 10/01/13
10B6000QUS | 3x4 | i7-4770 | 4GBx1 | 500G 7200 | DVD±RW | None | None | HD 4600 | None | None | Stand | None | None | None | Win7 Pro64 (DG) | 10/01/13
10B6000FUS | 3x4 | i3-4130 | 8GBx1 | 1TB 7200 | DVD±RW | N105 | None | GT620 | None | None | Serial | None | None | None | Win7 Pro64 (DG) | 10/01/13
10B6000AUS | 3x4 | G3220 | 2GBx1 | 500G 7200 | DVD±RW | None | None | Intel HD | None | None | Stand | None | None | None | Win7 Pro64 (DG) | 10/01/13
10B60009US | 3x4 | i3-4130 | 4GBx1 | 500G 7200 | DVD±RW | None | None | HD 4400 | None | None | Stand | None | None | None | Win7 Pro64 (DG) | 10/01/13
10B60008US | 3x4 | i5-4570 | 4GBx1 | 500G 7200 | DVD±RW | None | None | HD 4600 | None | None | Stand | None | None | None | Win7 Pro64 (DG) | 10/01/13

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

Positioning

Processor

Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Implementation

Memory

16GB max, UDIMM, PC3-12800 1600MHz DDR3, two 240-pin DIMM sockets

*System automatically locks down for processors with 1333MHz memory controller

Graphics

Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;

Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blankling)

Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Some: 500GB (5400 rpm) hybrid hard disk / with 8GB LLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide

Optical

Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

SATA controller

Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset

Onboard SATA

SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

eSATA port

None

Media reader

Optional 9-in-1 media reader, internal USB 2.0

Chipset

Intel H81 Express Chipset

Front ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports

Two USB 2.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), Ethernet, USB 2.0, headphone, microphone

Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

Audio

High Definition (HD) Audio, Realtek® ALC662 codec

PCle WLAN

Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 105, 1x1

Bluetooth

None

Speaker

Internal speaker for business audio (1 watt) (*No internal speaker for 10B6000BUS)

Ethernet

Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

IEEE 1394

None

Security chip

None

Keyboard

Preferred Pro USB Keyboard (USB connector), black, Lenovo™ logo

Mouse

Enhanced Optical USB Mouse, black, Lenovo logo

Floor Stand

Optional system floor stand for vertical orientation

Power supply

240 watts, autoselect, active PFC

Machine

Business black color; metal case

13.2" W X 15.0" D X 3.9" H

335mm W X 382mm D X 101mm H

14.6 lb (6.6 kg) in maximum configuration

Highlighted optical drive button for easy access

Bay

Bay 1: 5.25", 16" high access, std optical

Bay 2: 3.5", 1" high, no access, std disk

Bay 3: 2.5", 1/4", no access, std 2nd disk

Bay 4: 1.5", 35" high, access, opt reader

**bay only available on models with HDD/SSD/reader installed

Slot

Slot 1: Low Profile, PCle 2.0 x16 (40w max)

Slot 2: Low Profile, PCle 2.0 x1

Slot 3: Low Profile, PCle 2.0 x1

Limited Warranty

3-years limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security

Limited warranty

3 years

See footnotes for important warranty information

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US model(s) announced October 1, 2013 or November 12, 2013

MLM1S-1 November 2013
**THINKCENTRE M73 SMALL (10B6) - TOPSELLER - II**

**Product Specifications Reference (PSRef)**

**Type-model** | **Slot x bay** | **Processor Memory** | **SATA disk GB rpm** | **SATA optical** | **PCle WLAN** | **Media Reader** | **Graphics** | **Chassis Intrusion switch** | **2nd Serial / Parallel** | **Floor stand** | **ENERGY STAR 6.0 Global** | **Preload** | **Ann date (mm/dd/yyyy)**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
10B60001XS | 3x4 | i5-4570 4GBx1 | 500G 7200 | DVD±RW None None | HD 7450 None None | Stand None None | None None Win7 P64 DG Win8.1 02/04/14
10B6000YS | 3x4 | i3-4130 4GBx1 | 500G 7200 | DVD±RW None None | HD 7450 None None | Stand None None | None None Win7 P64 DG Win8.1 02/04/14
10B60011US | 3x4 | G1820 4GBx1 | 500G 7200 | DVD±RW None None | HD 7450 None None | Stand None None | None None Win7 P64 DG Win8.1 02/11/14
10B60013US | 3x4 | i3-4130 4GBx1 | 500G 7200 | DVD±RW None None | HD 4400 None None | Stand None None | None None Win7 P64 DG Win8.1 02/11/14
10B60012US | 3x4 | G3220 2GBx1 | 500G 7200 | DVD±RW None None | Intel HD None None | Stand None None | None None Win7 P64 DG Win8.1 02/11/14
10B60014US | 3x4 | i5-4570 4GBx1 | 128G SSD | DVD±RW None None | HD 4600 None None | Stand None None | None None Win7 P64 DG Win8.1 03/25/14
10B60015US | 3x4 | i5-4570 4GBx1 | 500G 7200 | DVD±RW None None | HD 4600 None None | Stand None None | None None Win7 P64 DG Win8.1 03/25/14

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

---

**Positioning**

**Processor**

Intel® Celeron® G1820 Processor (2 cores / 2 threads, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller

Intel Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller

Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller

Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Processor in LGA1150 socket

---

**Memory**

16GB max, UDIMM, PC3-12800 1600MHz DDR3, two 240-pin DIMM sockets

- System automatically locks down processors with 1333MHz memory controller

---

**Graphics**

Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;

Maximum resolution: 2560x1600 (DisplayPort)@60Hz;

Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;

Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz

---

**Disk**

Some:

- SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- SATA 6.0Gb/s, 2.5" Wide

Some:

- Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

---

**Optical**

Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

---

**SATA controller**

Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset

---

**Onboard SATA**

SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

eSATA port

None

---

**Media reader**

Optional 9-in-1 media reader, internal USB 2.0

---

**Chipset**

Intel H81 Express Chipset

---

**Front ports**

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

---

**Rear ports**

Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), Ethernet (RJ-45), VGA DB-15, DisplayPort

---

**Rear audio ports**

Audio

High Definition (HD) Audio, Realtek® ALC662 codec

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**PCIe WLAN**

Some:

- 11b/g/n wireless, PCI Half Mini Card, Intel Centrino® Wireless-N 105, 1x1

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**Bluetooth**

None

---

**Speaker**

Internal speaker for business audio (1 watt)

---

**IEEE 1394**

None

---

**Ethernet**

Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN™

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**Modem**

None

---

**Security**

- Administrator password

---

**Keyboard**

Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

---

**Mouse**

Enhanced Optical USB Mouse, black, Lenovo logo

---

**Floor Stand**

Optional system floor stand for vertical orientation

---

**Power supply**

240 watts, autosensing, active PFC

---

**Machine**

- Business black color; metal case
- 13.2” W X 15.0” D X 3.9” H
- 35mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration
- Highlighted optical drive button for easy access
- Bay 1: 5.25”, 1.6” high, access, std disk
- Bay 2: 3.5”, 1” high, access, std disk
- Bay 3: 2.5”, N/A, no access, opt 2nd SSD
- Bay 4: 1.8”, 35” high, access, opt reader
- Bay only available on models with HDD/SSD/reader installed
- Slot 1: Low Profile, PCIe 2.0 x16 (40x max)
- Slot 2: Low Profile, PCIe 2.0 x1
- Slot 3: Low Profile, PCIe 2.0 x1

---

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

**Preloaded operating system**

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

---

**Ready to install applications (only some listed)**

- Virus & Reboot Recovery™
- Password Manager

---

**Preloaded applications (only some listed)**

- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Metro Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go® (DVD±RW)
- Cyberlink PowerProducer® (DVD±RW)
- Nitro Pro

---

**Security**

- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected models

---

**Supports ThinkVantage Technologies**

Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

---

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US model(s) announced February 4 or 11 or March 25, 2014

(MLM15-6) March 2014
ThinkCentre M73 Small (10B6) - TopSeller - III

Product Specifications Reference (PSREF)

Ethernet Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN
IEEE 1394 None
Speaker Internal speaker for business audio (1 watt)
Bluetooth
Audio High Definition (HD) Audio, Realtek
Rear ports Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel
Front ports Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Intel H81 Express Chipset
/opt on motherboard, uses main memory, Intel HD Graphics, 1333MHz DDR3 memory controller
Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Processor Intel® Pentium® G3240 Processor (2 cores / 2 threads, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
Intel Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Processor in LGA1150 socket
Intel HD Graphics 4400, 1600MHz DDR3 memory controller
Intel HD Graphics 7450, DirectX 11, 3D Hardware Acceleration
Intel HD Graphics
Intel P64 DG

Preloaded operating system
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Adobe® Reader™
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate

Security
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for op lock)
  - Security slot (in rear for optional)
  - Kensington™ MicroSaver® cable
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected

For Lenovo service upgrade options, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TS sheet
## ThinkCentre M73 Small (10B5) - ES 6.0 (TopSeller)

### Product Specifications Reference (PSREF)

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<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>PCIe WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Chassis Intrusion switch</th>
<th>2nd Serial / Parallel Floor stand</th>
<th>ENERGY STAR 6.0</th>
<th>Internal Speaker</th>
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### Positioning

- Essential business features, exceptional value

### Processor

- **Intel Celeron G1820 Processor** (2 cores / 2 threads, 2.7GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- **Intel Pentium G3240 Processor** (2 cores / 2 threads, 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- **Intel Core i3-4150 Processor** (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- **Intel Core i5-4570 Processor** (4 cores / 4 threads, 3.6GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Implementation

- Processor in LGA1150 socket
- Rear audio ports: Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
- Rear ports: Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel
- Media reader: Optional 9-in-1 media reader, internal USB 2.0
- eSATA port: None
- Onboard SATA: SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector
- SATA controller: SATA 6.0Gb/s, 2.5" wide
- Graphic controller: Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Graphics

- Graphics HD or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
- Some: NVIDIA GeForce GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 3GB/s or more
- Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@60Hz

### Disk

- SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
- 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

### Optical

- Optical drive: SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector
- Optical drive (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar
- Optical drive (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

### Chipset

- Intel H81 Express Chipset
- Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- Rear ports: Two USB 2.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort
- Rear audio ports: Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
- Audio ports: High Definition (HD) Audio, Realtek ALC662 codec
- PCle WLAN*: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2, 802.11n wireless, PCle Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

### Bluetooth

- Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

### Speaker

- Optional internal speaker for business audio (1 watt)

### Ethernet

- Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

### Modem

- None

### Security

- One lock to secure both cover and entire system to fixed object:
- Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Preloaded operating system

- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader™
- Evernote™
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink PowerGo(DVD+RW)
- Cyberlink PowerProducer(DVD+RW)
- Nitro Pro

### Limited Warranty

- 3-years warranty, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

See footnotes for important warranty information

©Lenovo (MLM1S-2) October 2014
## ThinkCentre M73 Mini Tower (10B0) - TopSeller

### Product Specifications Reference (PSREF)

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<tr>
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<th>Slot x bay</th>
<th>Processor</th>
<th>Memoryx</th>
<th>SATA disk GB</th>
<th>rpm</th>
<th>Optical</th>
<th>PCIe WLAN</th>
<th>Media reader</th>
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### Type-model: ThinkCentre M73 Mini Tower (10B0) - TopSeller

#### Positioning
- Essential business features, exceptional value

#### Processor
- Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DRR3 memory controller
- Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DRR3 memory controller
- Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DRR3 memory controller
- Intel® Core™ i7-4770 Processor (4 cores / 8 threads, 3.5GHz, 8MB cache), Intel HD Graphics 4600, 1600MHz DRR3 memory controller

#### Implementation
- Processor in LGA1150 socket

#### Graphics
- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display

#### Disk
- SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

#### Optical
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

#### SATA controller
- Serial ATA, SATA 6.0Gb/s and SATA 6.0Gb/s, integrated in chipset

#### Onboard SATA
- SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s controller
- (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

#### Media reader
- Optional 9-in-1 media reader, internal USB 2.0

#### Chipset
- Intel H81 Express Chipset

#### Front ports
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

#### Rear ports
- Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (20-pin), keyboard (PS/2), mouse (PS/2), 10/100/1000 Gigabit port (RJ-45), VGA DB-15, DisplayPort

#### Rear audio ports
- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

#### Bluetooth
- None

#### Speaker
- Internal speaker for business audio (1.5 watt)

#### Ethernet
- Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

#### Keyboard
- Advanced Optical USB Mouse, black, Lenovo logo

#### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

Preloaded operating system
- Some: Windows™ 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Preloaded applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

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US model(s) announced October 1 or 22, November 12, 2013, or February 4 or 11, 2014
Type-model: 10B00017US
Processor: G3240
Memory: 4GBx2
Storage: 500G
D/A: None
D/VRW: None
Intel HD: None
Win7 P64 DG: None
Win8.1: 10/28/14

Type-model: 10B00019US
Processor: i7-4790
Memory: 8GBx1
Storage: 1TB
D/A: DVD±RW
D/VRW: 7260 b/g/n
Intel HD: None
Win7 P64 DG: None
Win8.1: 10/28/14

Type-model: 10B00014US
Processor: i5-4590
Memory: 8GBx1
Storage: 1TB
D/A: DVD±RW
Intel HD: None
Win7 P64 DG: None
Win8.1: 10/28/14

Type-model: 10B00013US
Processor: i5-4590
Memory: 4GBx1
Storage: 500G
D/A: DVD±RW
Intel HD: None
Win7 P64 DG: None
Win8.1: 10/28/14

Type-model: 10B00012US
Processor: G3240
Memory: 4GBx1
Storage: 1TB
D/A: DVD±RW
D/VRW: 7260 b/g/n
Intel HD: None
Win7 P64 DG: None
Win8.1: 10/28/14

Type-model: 10B00018US
Processor: i7-4790
Memory: 4GBx1
Storage: 500G
D/A: DVD±RW
D/VRW: 7260 b/g/n
Intel HD: None
Win7 P64 DG: None
Win8.1: 10/28/14

Type-model: 10B00015US
Processor: i5-4590
Memory: 4GBx1
Storage: 1TB
D/A: DVD±RW
D/VRW: 7260 b/g/n
Intel HD: None
Win7 P64 DG: None
Win8.1: 10/28/14

### Preloaded operating system
- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Windows 7 Professional preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications
- Rescue and Recovery™
- Password Manager

### Preloaded applications
- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded: product key to activate
- Cyberlink Power2Go (DVD+RW)
- Cyberlink PowerProducer (DVD+RW)
- Nitro Pro

### Security
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Mechanical
- Business black color; metal case
- 6.3” W X 16.6” D X 15.3” H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration
- Handle on top front
- Highlighted drive button for easy access
- Bay 1: 5.25”, 1.6” high, access, std optical
- Bay 2: 3.5”, 1” high, no access, opt disk
- Bay 3: 3.5”, 1” high, no access, std disk
- Bay 4: 1.5”, .35” high, access, opt reader
  - bay only available on models with HDD/SSD/reader installed
  - Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max)
  - Slot 2: half-length, full-height, PCIe 2.0 x1
  - Slot 3: half-length, full-height, PCIe 2.0 x1

### Limited Warranty
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
### Product Specifications Reference (PSREF)

**ThinkCentre M73 Mini Tower (10B2) - ES 6.0 (TopSeller)**

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- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

**Positioning**

- Essential business features, exceptional value

**Processor**

- **Intel® Celeron® G1820 Processor (2 cores / 2 threads, 2.7GHz, 2MB cache),** Intel HD Graphics, 1333MHz DDR3 memory controller
- **Intel Core™ i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache),** Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation**

- Processor in LGA1150 socket

**Memory**

- 16GB max, UDIMM, PC3-12800 1600MHz DDR3, two 240-pin DIMM sockets
- System automatically clocks down for processors with 1333MHz memory controller

**Graphics**

- **Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;
- **Maximum resolution:** 2560x1600 (DisplayPort) @ 60Hz;
- 1920x1200 (VGA) @ 60Hz (Reduced Blanking)

**Disk**

- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

**Optical**

- Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
- SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s controller (for optical) and two SATA 6.0Gb/s controllers (for HDD/SSD) on planar
- eSATA port None

**Audio**

- ALC662 codec

**Board**

- Some: Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
- Speaker Internal speaker for business audio (1.5 watt)
- IEEE 1394 None
- Ethernet Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN™

**Power**

- Some: 280 watts, autosensing, active PFC, 85% PSU

**Mechanical**

- Business black color; metal case
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration
- Handle on top front
- Highlighted optical drive button for easy access

**Chassis**

- Bay: 1: 5.25" , 1.6" high, access, std optical
- Bay: 2: 3.5", 1" high, no access, opt disk
- Bay: 3: 3.5", 1" high, no access, std disk
- Bay: 4: 3.5", 3.5" high, access, opt reader

**Slot**

- Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max)
- Slot 2: half-length, full-height, PCIe 2.0 x1
- Slot 3: half-length, full-height, PCIe 2.0 x1

**Limited Warranty**

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

**Preloaded operating system**

- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications**

- Some: ThinkVantage® Product Recovery
- Some: ThinkVantage System Update
- Some: ThinkVantage Communication Utility
- Some: ThinkVantage Power Manager
- Some: View Management Utility
- Some: PC Device Stage
- Some: Lenovo Cloud Storage by SugarSync
- Some: Lenovo Solution Center
- Some: Lenovo Message Center Plus
- Some: Norton™ Internet Security
- Some: Adobe® Reader®
- Some: Microsoft® Office preloaded; purchase a product key to activate
- Some: Cyberlink Power2Go (DVD±RW)
- Some: Cyberlink PowerProducer (DVD±RW)
- Some: Nitro Pro

**Security**

- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

**Footnotes**

- Please go to TC-AQP sheet; For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet.
## ThinkCentre M73 Tiny (10AX) - Thin Client

### Type-model  Processor  Memory  Flash Memory  Optical  Graphics  WiFi  Ethernet  Audio  Security
<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Flash Memory</th>
<th>Opt/Box</th>
<th>Graphics</th>
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### Preloaded operating system
- WES 7 only:
  - Intel Management Engine Components
  - RDP Client
  - Citrix Client
  - VMware Client
  - Internet Explorer 9
  - Java
  - Flash
  - .Net Framework
  - Microsoft® Silverlight
  - Echo Agent
  - Ultra VNC
  - Adobe Reader
  - Intel Manageability Engine Firmware
  - Recovery Agent

- LeTOS only:
  - xFreeRDP
  - Citrix ICA Client
  - VMware View Client
  - Java
  - Mozilla Firefox
  - NX NoMachine Client
  - X11 Client
  - VDI-In-A-Box Java Client
  - AnyConnect VPN Client

### Security
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Limited Warranty
- 1-years - depot repair service / service upgrades available

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See footnotes for important warranty information.

US model(s) announced February 25, 2013

© Lenovo (MLM1N-5) February 2014
## ThinkCentre M73 Tiny (10DK) - Thin Client

**Product Specifications Reference (PSREF)**

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### Preloaded operating system
- **WES 7 only:**
  - Intel Management Engine Components
  - RDP Client
  - Citrix Client
  - VMware Client
  - Internet Explorer 9
  - Java
  - Flash
  - .Net Framework
  - Microsoft® Silverlight
  - Echo Agent
  - Ultra VNC
  - Adobe Reader
  - Intel Manageability Engine Firmware Recovery Agent
- **LeTOS only:**
  - xFreeRDP®
  - Citrix ICA Client
  - VMware View Client
  - Java
  - Mozilla Firefox
  - NX NoMachine Client
  - X11 Client
  - VDI-In-A-Box Java Client
  - AnyConnect VPN Client

### Preloaded applications (only some listed)
- **WES 7 only:**
  - .Net Framework
  - Java
  - VMware View Client
  - Citrix ICA Client
  - AnyConnect VPN Client
  - Echo Agent
  - Ultra VNC
  - Adobe Reader
  - Intel Manageability Engine Firmware Recovery Agent

### Security
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Certified Features
- EPEAT® Gold rating (WES models)
- ENERGY STAR® 6.0 (WES models)
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

### Limited Warranty
- 1-year onsite warranty

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For compatible accessories, please go to TC-AQP sheet.
For Lenovo service upgrade options, please go to 5-TC sheet.
## ThinkCentre M73 Tiny (10DL) - Thin Client

### General Specifications

<table>
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<th>Processor</th>
<th>Memory¹</th>
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<td>10/14</td>
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</table>

### Positioning

- **Processor**: Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- **Implementation**: Processor in LGA1150 socket

### Memory

- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook), System automatically clocks down for processors with 1333MHz DDR3 memory controller

### Graphics

- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort®, supports up to dual independent display, *Maximum resolution*: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

### Flash Memory

- 8GB or 16GB / DOM (Disk On Module) Card

### SATA controller

- Serial ATA, SATA 6.0Gb/s support, integrated in chipset

### Onboard SATA eSATA port

- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

### Chipset

- Intel H81 Express Chipset

### Front ports

- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### Rear ports

- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)

### I/O box

- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

### PCIe Mini Card

- One PCI Express® Mini Card slot

### Bluetooth

- Some: Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter, 2x2

### Audio

- High Definition (HD) Audio, Realtek® ALC283 codec

### Speaker

- Internal speaker for business audio (1.5 watt)

### Ethernet

- Gigabit ethernet port, Intel I217-V, Wake on LAN®

### Intel AMT

- None

### Modern

- None

### Security chip

- None

### Keyboard/ Mouse

- Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

### Floor Stand

- Optional System floor stand for vertical orientation

### VESA mount

- Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

### Power supply

- 65 watts AC/DC adapter, autosensing, 88% PSU

### Mechanical

- Tiny (1L), business black color; metal case
- **M73 Tiny only**: 7.0" W X 7.2" D X 1.4" H
  - 179mm W X 182mm D X 34.5mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration
- **With VESA mount & optical box**: 7.2" W X 7.2" D X 2.55" H
  - 164mm W X 182mm D X 65mm H
  - 5.1b (2.3 kg), weight may vary by configuration

### Preloaded operating system

- Some: Genuine Windows® Embedded Standard 7 (WES 7)
- Some: LeTOS (Lenovo Terminal Operating System, Linux-based)

### Preloaded applications (only some listed)

- **WES 7 only**:
  - Intel Management Engine Components
  - RDP Client
  - Citrix Client
  - VMware Client
  - Internet Explorer 9
  - Java
  - Flash
  - .Net Framework
  - Microsoft® Silverlight
  - Echo Agent
  - Ultra VNC
  - Adobe Reader
  - Intel Manageability Engine Firmware Recovery Agent

- **LeTOS only**:
  - xFreeRDP
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  - Java
  - Mozilla Firefox
  - NX NoMachine Client
  - X11 Client
  - VDI-In-A-Box Java Client
  - AnyConnect VPN Client

### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

- EPEAT® Gold rating (WES models)
- ENERGY STAR® 6.0 (WES models)
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- Supports ThinkVantage Technologies

### Preloaded applications

- For compatible accessories, please go to TC-AQP sheet
- For Lenovo service upgrade options, please go to S-TC sheet

---

See footnotes for important warranty information

US model(s) announced February 25, 2013

©Lenovo

(MLM1N-12) October 2014
## Lenovo ThinkCentre M73 Tiny (10AX)

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<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>04/01/14</td>
</tr>
</tbody>
</table>

### Preloaded operating system

**Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded:
  - product key to activate
  - Cyberlink Power2Go (DVD±RW)
  - Cyberlink PowerProducer (DVD±RW)
- Norton® 360
- Windows Preloaded operating system:
  - Windows 7 Professional 64
  - Windows 8.1 Pro 64-bit

### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected models

### Preloaded applications

- EPEAT® Gold rating
- ENERGY STAR® 6.0-compliant
- Cisco EnergyWise certified
- GREENGUARD® certified
- RoHS-compliant

### Supports

- ThinkVantage Technologies
- For compatible accessories, please go to TC-AQP sheet;
- For Lenovo service upgrade options, please go to S-TC sheet

---

**Note:**
- Please go to TC-AQP sheet for compatible accessories.
- Please go to S-TC sheet for Lenovo service upgrade options.

---

**See footnotes for important warranty information**

**US model(s) announced October 1, 2013 or April 1, 2014**

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(MLM1N-2) April 2014
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>External optical / I/O box</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>PCIe WLAN</th>
<th>Optional port</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA mount</th>
<th>Keyboard / mouse</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10AX008TUS</td>
<td>i5-4590T</td>
<td>8GBx1</td>
<td>500G 7200</td>
<td>None</td>
<td>HD 4600</td>
<td>7260 b/g/n</td>
<td>Serial</td>
<td>None</td>
<td>None</td>
<td>Mount USB</td>
<td>USB</td>
<td>Win7 P64 DG</td>
<td>Win8.1</td>
<td>10/28/14</td>
</tr>
<tr>
<td>10AX008KUS</td>
<td>i5-4590T</td>
<td>4GBx1</td>
<td>500G 7200</td>
<td>None</td>
<td>HD 4400</td>
<td>7260 b/g/n</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Mount USB</td>
<td>USB</td>
<td>Win7 P64 DG</td>
<td>Win8.1</td>
<td>10/28/14</td>
</tr>
<tr>
<td>10AX008QUS</td>
<td>i3-4150T</td>
<td>4GBx1</td>
<td>180G SSD</td>
<td>None</td>
<td>HD 4400</td>
<td>7260 b/g/n</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Mount USB</td>
<td>USB</td>
<td>None</td>
<td>None</td>
<td>10/28/14</td>
</tr>
<tr>
<td>10AX008KUS</td>
<td>i5-4590T</td>
<td>4GBx1</td>
<td>256G SSD</td>
<td>None</td>
<td>HD 4400</td>
<td>7260 b/g/n</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Mount USB</td>
<td>USB</td>
<td>Win7 P64 DG</td>
<td>Win8.1</td>
<td>10/28/14</td>
</tr>
</tbody>
</table>

### Preloaded operating system

#### Some:
- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Windows 7 Professional 64 preinstalled through downgrade in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
  - (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go® (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

See footnotes for important warranty information
### ThinkCentre M73 Tiny (10AX) - 1-year depot

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>External optical / I/O box</th>
<th>Graphics</th>
<th>PCle Mini Card</th>
<th>Optional port</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA mount</th>
<th>Keyboard / mouse</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10AX003XUS</td>
<td>i3-4130T</td>
<td>4GBx1</td>
<td>500GB 7200</td>
<td>None</td>
<td>Intel HD 4400, 1600MHz DDR3 memory controller</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Stand</td>
<td>None</td>
<td>None</td>
<td>USB</td>
<td>Win7 Pro64 (DG)</td>
</tr>
<tr>
<td>10AX0057US</td>
<td>G1820T</td>
<td>4GBx1</td>
<td>500GB 7200</td>
<td>None</td>
<td>Intel HD Graphics, 1333MHz DDR3 memory controller</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Stand</td>
<td>None</td>
<td>None</td>
<td>USB</td>
<td>Win7 P64 DG Win8.1</td>
</tr>
</tbody>
</table>

- **A depot repair service 1-year limited warranty**

### System Details

- **Positioning:** Essential business, exceptional value

#### Processor

- **Intel® Celeron® G1820T Processor (2 cores / 2 threads, 2.4GHz, 2MB cache),**
- **Intel HD Graphics, 1333MHz DDR3 memory controller**

#### Implementation

- **Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache),**
- **Intel HD Graphics 4400, 1600MHz DDR3 memory controller**

#### Memory

- 16GB max, **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook),
- **System automatically clocks down for processors with 1333MHz DDR3 memory controller**

#### Graphics

- **Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display,**
- **Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)**

#### DP dongle

- None

#### Disk

- **Some:** SATA 6.0Gb/s, 2.5" Wide, 7200 rpm

#### External optical

- None

#### SATA controller

- Serial ATA, SATA 6.0Gb/s support, integrated in chipset

#### Onboard SATA eSATA port

- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

#### Chipset

- **Intel H81 Express Chipset**

#### Front ports

- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

#### Rear ports

- Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)

#### I/O box

- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

#### PCle Mini Card

- One PCI Express® Mini Card slot

#### PCle WLAN

- **Some:** 11b/g/n wireless, PCle Half Mini Card, Intel Wireless-N 7260,
- **Wi-Fi + Bluetooth combo adapter, 2x2**
- **Some:** 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
- **Some:** Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

#### Bluetooth Audio

- High Definition (HD) Audio, Realtek® ALC283 codec

#### Speaker

- Internal speaker for business audio (1.5 watt)

#### Ethernet

- Gigabit ethernet port, Intel I217-V, Wake on LAN™

#### Intel AMT

- None

#### Modem

- None

#### Security chip

- None

#### Keyboard

- Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

#### Mouse

- Enhanced Optical USB Mouse, black, Lenovo Logo

#### Floor Stand

- Optional System floor stand for vertical orientation

#### VESA mount

- Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

#### Power supply

- 65 watts AC/DC adapter, autoseizing, 88% PSU

#### Mechanical

- **Tiny (1L), business black color, metal case**
- **M73 Tiny only:**
  - 7.0" W X 7.2" D X 1.4" H
  - 179mm W X 182mm D X 34.5mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration
- **With VESA mount & optical box:**
  - 7.2" W X 7.2" D X 2.55" H
  - 184mm W X 182mm D X 65mm H
  - 5.1lb (2.3 kg), weight may vary by configuration

#### Limited Warranty

- **1-years - depot repair service / service upgrades available**

See footnotes for important warranty information

US model(s) announced October 1, 2013 or January 14, 2014

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(MLM1N-3) January 2014

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**Preloaded operating system**

- **Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- **Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications** (only some listed)

- Rescue and Recovery™
- Password Manager

**Preloaded applications** (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader™
- Skype™
- Evernote®
- Microsoft® Office preloaded; please go to TC-AQP sheet; please go to S-TC sheet
- Cyberlink Power2Go (DVDrxRW)
- Cyberlink PowerProducer (DVDrxRW)
- Nitro Pro

**Security**

- Security slot (in rear for attachment of optional Kensington™ MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

**EPEAT™ Gold rating**

- ENERGY STAR® 6.0-compliant
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

**Supports ThinkVantage Technologies**

- For compatible accessories, please go to TC-AQP sheet;
- For Lenovo service upgrade options, please go to S-TC sheet
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory*</th>
<th>SATA disk</th>
<th>External optical / I/O box</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Optional port</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA mount</th>
<th>Global (G)</th>
<th>GMP (P)</th>
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<td>G P</td>
<td>Pre64</td>
<td>Win7</td>
<td>10/01/13</td>
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<td>Intel HD</td>
<td>Intel 105</td>
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<td>None</td>
<td>Stand</td>
<td>None</td>
<td>G P</td>
<td>Pre64</td>
<td>Win7</td>
<td>10/01/13</td>
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<td>DVD+RW</td>
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<td>Switch</td>
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<td>G P</td>
<td>Pre64</td>
<td>Win7</td>
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<td>None</td>
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<td>G P</td>
<td>Pre64</td>
<td>Win7</td>
<td>10/22/13</td>
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<td>Intel HD</td>
<td>Intel 105</td>
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<td>Pre64</td>
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<tr>
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<td>i5-4590T</td>
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<td>128G SSD</td>
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<td>Intel 7260</td>
<td>USB</td>
<td>Switch</td>
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<td>Mount</td>
<td>G P</td>
<td>Pre64</td>
<td>Win8</td>
<td>07/08/14</td>
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<tr>
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<td>i3-4150T</td>
<td>4GBx1</td>
<td>500G 5400</td>
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<td>Intel HD</td>
<td>Intel 7260</td>
<td>None</td>
<td>None</td>
<td>Stand</td>
<td>None</td>
<td>G P</td>
<td>Pre64</td>
<td>Win7</td>
<td>07/08/14</td>
</tr>
</tbody>
</table>

- **Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty**

<table>
<thead>
<tr>
<th>Positioning</th>
<th>Processor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Pentium® G3420T Processor (2 cores / 2 threads, 2.7GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller</td>
<td>Intel Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</td>
</tr>
<tr>
<td>Intel Core™ i3-4150T Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</td>
<td>Intel Core i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</td>
</tr>
<tr>
<td>Intel Core i5-4590T Processor (4 cores / 4 threads, 3.0GHz, 4.0MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 630, 1600MHz DDR3 memory controller</td>
<td>Intel Core i5-4590T Processor (4 cores / 4 threads, 3.0GHz, 4.0MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 6400, 1600MHz DDR3 memory controller</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports up to dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @ 60Hz; 1920x1200 (VGA) @ 60Hz (Reduced Blanking)</td>
<td>16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook), System automatically clocks down for processors with 1333MHz DDR3 memory controller</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DP dongle</th>
<th>Disk</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Some: SATA 3.0Gb/s, 2.5&quot; Wide, 5400 rpm or 7200 rpm</td>
</tr>
<tr>
<td></td>
<td>Some: Solid State Drive (SSD)/ SATA 6.0Gb/s, 2.5&quot; Wide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>External optical</th>
<th>SATA controller</th>
<th>Onboard SATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0</td>
<td>Serial ATA, SATA 6.0Gb/s support, integrated in chipset</td>
<td>One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chipset</th>
<th>Front ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel H81 Express Chipset</td>
<td>Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rear ports</th>
<th>I/O box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three USB 2.0 (optional external optical box or external I/O box occupies one specific USB 2.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial on selected models)</td>
<td>Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PCIe Mini Card</th>
<th>Bluetooth</th>
</tr>
</thead>
<tbody>
<tr>
<td>One PCIe Express™ Mini Card slot</td>
<td>Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Audio</th>
<th>Speaker</th>
<th>Ethernet</th>
<th>Intel AMT</th>
<th>Modern</th>
<th>Security chip</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Definition (HD) Audio, Realtek® ALC283 codec</td>
<td>Internal speaker for business audio (1.5 watt)</td>
<td>Gigabit ethernet port, Intel I217-V, Wake on LAN™</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keyboard</th>
<th>Mouse</th>
<th>Floor Stand</th>
<th>VESA mount</th>
<th>Power supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo</td>
<td>Enhanced Optical USB Mouse, black, Lenovo logo</td>
<td>Optional 3D floor stand for vertical orientation</td>
<td>Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard</td>
<td>65 watts AC/DC adapter, autosetsensing, 88% PSU</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Limited Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tiny (1L), business black color; metal case</td>
<td>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available</td>
</tr>
</tbody>
</table>

- **Preloaded operating system**
  - Some: Windows 7 Professional 64
  - Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
  - Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

- **Ready to install applications (only some listed)**
  - Rescue and Recovery™
  - Password Manager

- **Preloaded applications (only some listed)**
  - ThinkVantage® Product Recovery
  - ThinkVantage System Update
  - ThinkVantage Communication Utility
  - ThinkVantage Power Manager
  - View Management Utility
  - PC Device Stage
  - Lenovo Cloud Storage by SugarSync
  - Lenovo Solution Center
  - Lenovo Message Center Plus
  - Norton™ Internet Security
  - 30 days of virus definitions
  - Adobe® Reader®
  - Skype®
  - Evernote®
  - Microsoft® Office preloaded; purchase a product key to activate
  - Cyberlink Power2go® (DVDr RW)
  - Cyberlink PowerProducer® (DVDr RW)
  - Nitro Pro

- **Security**
  - Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement
  - Chassis intrusion switch on selected model(s)

- **EPEAT® Gold rating**
  - ENERGY STAR® 6.0-compliant
  - Cisco EnergyWise compatible
  - GREENGUARD® certified
  - RoHS-compliant

- **Supports ThinkVantage Technologies**
  - For compatible accessories, please go to TC-AQP sheet;
  - For Lenovo service upgrade options, please go to 5-TC sheet

See footnotes for important warranty information ©Lenovo (MLM1N-4) July 2014
### ThinkCentre M73 Tiny (10DM) - GMP

#### Type-model Processor Memory SATA disk disk rpm External optical/ I/O box Graphics PCle Mini Card VLAN / BT Optional port Chassis intrusion switch Floor stand VESA mount Global (G) GMP (P) Preload Ann date (mm/dd/yy)

| 10DM000MUS i3-4570T 4GBx1 128G SSD None | HD 4600 | 7260 b/g/n | None | Switch | None | None | G | P | Win7 P64 DG Win8.1 10/17/14 |
| 10DM000NUS G3420T 2GBx1 500G 5400 None | HD 4400 | 7260 b/g/n | None | None | None | None | G | P | Win7 P64 Pro 10/17/14 |
| 10DM000PUS i3-4130T 2GBx1 320G 7200 None | HD 4400 | 7260 b/g/n | None | None | None | None | G | P | Win7 P64 Pro 10/17/14 |
| 10DM000QUS G3420T 2GBx1 320G 7200 None | HD 4400 | 7260 b/g/n | None | None | None | None | G | P | Win7 P64 Pro 10/17/14 |

#### Preloaded operating system
- Some: Windows® 7 Professional 64
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

#### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

#### Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

#### Security
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

#### ENERGY STAR® 6.0-compliant
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

#### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information
## ThinkCentre M73 Small (10B7)

### Product Specifications Reference (PSREF)

#### Type-model

<table>
<thead>
<tr>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>Optical</th>
<th>PCIe</th>
<th>Graphics</th>
<th>2nd Intrusion switch</th>
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#### Positioning

- Processor: Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- Intel® i3-4130 Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), Intel HD Graphics 4400, 600MHz DDR3 memory controller
- Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

#### Implementation

- Processor: Intel Pentium G3220 Processor
- Memory: 16GB max, UDIMM, PC3-12800 1600MHz DDR3, two 240-pin DIMM sockets

#### Graphics

- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz;
- Intel HD Graphics 4400/4600, 1920x1200 (VGA)@60Hz (Reduced Blanking)

#### Disk

- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLN NAND flash memory, SATA 6.0Gb/s, 2.5" wide

#### Optical

- Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

#### SATa controller

- SATA ADA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset

#### Onboard SATa cards

- SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

#### eSATa port

- None

#### Media reader

- Optional 9-in-1 media reader, internal USB 2.0

#### Chipset

- Intel H81 Express Chipset

#### Front ports

- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort

#### Audio

- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
- High Definition (HDMI), Intel® Audio, Realtek® ALC662 codec

#### PClE Wlan

- Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

#### Bluetooth

- Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

#### Speaker

- Internal speaker for business audio (1 watt)

#### Ieee 1394

- None

#### Ethernet

- Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

#### Manageability

- None

#### Modern

- None

#### Security_chip

- None

#### Keyboard

- Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

#### Mouse

- Enhanced Optical USB Mouse, black, Lenovo logo

#### Floor Stand

- Optional system floor stand for vertical orientation

#### Power supply

- Some: 240 watts, autoselective, active PFC

#### Machine

- Business black color; metal case
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 14.6 lb (6.6 kg) in maximum configuration
- Highlighted optical drive button for easy access

#### Bay

- Bay 1: 5.25", 1" high, access, std optical
- Bay 2: 3.5", 1" high, no access, std disk
- Bay 3: 2.5", N/A, no access, opt 2nd SSD
- Bay 4: 2.5", 0.5" high, access, opt reader
- Bay only available on models with HDD/SSD/reader installed

#### Slot

- Slot 1: Low Profile, PCIe 2.0 x16 (40w max)
- Slot 2: Low Profile, PCIe 2.0 x1
- Slot 3: Low Profile, PCIe 2.0 x1

#### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

See footnotes for important warranty information

US model(s) announced October 1, 2013 or February 4, 2014

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(MLM1S-3) February 2014
ThinkCentre M73 Small (10B4) - ES 6.0  

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<th>Memory</th>
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<th>ES6.0</th>
<th>Win7 Pro64 (DG)</th>
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</thead>
</table>

### Preloaded operating system
- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager
- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- (30 days of virus definitions)
- Adobe® Reader™
- Skype™
- Evernote®
- Microsoft® Office preloaded:
  - purchase a product key to activate
- CyberLink Power2Go (DVD±RW)
- CyberLink PowerProducer (DVD±RW)
- Nitro Pro

### Security
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for optional padlock)
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

- EPEAT™ Gold rating
- ENERGY STAR® 6.0-compliant
- ENERGY STAR® Certified
- GREENGUARD® certified
- RoHS-compliant

**3-year limited warranty**
ThinkCentre M73 Small (10B4) - ES 6.0 (GMP)

Product Specifications Reference (PSREF)

Preloaded operating system

- Windows 7 Home Premium 64
- Windows 7 Professional 64
- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink PowerProducer (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver™ cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating
- ENERGY STAR® 6.0-compliant
- Cisco EnergyWise certified
- RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information

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(MLM1S-5) July 2014
<table>
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<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory*</th>
<th>SATA disk GB rpm</th>
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**Positioning Processor**
- Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- Intel Core® i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- Intel Core i5-4570 Processor (2 cores / 4 threads, 3.2GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Graphics**
- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz;
- 1920x1200 (VGA)@60Hz (Reduced Blanking)

**Memory**
- 16GB max, UDIMM, PC3-12800 1600MHz DDR3, two 240-pin DIMM sockets

**Disk**
- SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

**Optical Sata controller**
- Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

**Onboard SATA**
- SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar

**Chipset**
- Intel H81 Express Chipset

**Front ports**
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- Two USB 3.0, two USB 2.0, serial (9-pin), optional second serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort

**Audio**
- High Definition (HD) Audio, Realtek® ALC662 codec

**Power supply**
- 280 watts, autosensing, active PFC

**Mechanical**
- Business black color; metal case
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration
- Handle on top front
- Highlighted optical drive button for easy access

**Bay**
- Bay 1: 5.25", 1.6" high, access, std optical
- Bay 2: 3.5", 1.0" high, no access, opt disk
- Bay 3: 3.5", 1.0" high, no access, std disk
- Bay 4: 1.5", 32" high, access, opt reader

**Slot**
- Slot 1: half-length, full-height, PCIe 2.0 x16 (60w max)
- Slot 2: half-length, full-height, PCIe 2.0 x1
- Slot 3: half-length, full-height, PCIe 2.0 x1

**Limited Warranty**
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

**Preloaded operating system**
- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications**
- Rescue and Recovery™
- Password Manager

**Preloaded applications**
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security

**Security**
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optical)
  - Kensington® MicroSaver® cable
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

---

**Caption**
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- Supports ThinkVantage Technologies
- For compatible accessories, please go to TC-AOP sheet
- For Lenovo service upgrade options, please go to S-TC sheet
### ThinkCentre M73 Mini Tower (10B1) - ES 6.0 (GMP)

#### Product Specifications Reference (PSREF)

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<th>Processor</th>
<th>Memory*</th>
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### Positioning

**Processor**

- **Intel® Pentium® G3420 Processor (2 cores / 2 threads, 3.2GHz, 3MB cache), Intel HD Graphics, 1600Mhz DDR3 memory controller**
- **Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600Mhz DDR3 memory controller**
- **Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Intel HD Graphics 4400, 1600Mhz DDR3 memory controller**
- **Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Intel HD Graphics 4400, 1600Mhz DDR3 memory controller**

### Implementation

- **Memory**: 16GB max, UDIMM, PC3-12800 1600Mhz DDR3, two 240-pin DIMM sockets
  - *System automatically locks down processors with 1333Mhz memory controller*
- **Graphics**
  - **Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, one VGA, one DisplayPort**, supports dual independent display;
  - **Maximum resolution**: 2560x1600 (DisplayPort)@60Hz;
  - **Some**: [AMD Radeon™ HD 8470](#), DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)
  - **Some**: [NVIDIA® GeForce® GT 620](#), DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts; Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

### Disk

- **Some**: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- **Some**: DVD-ROM DL SATA 1.5Gb/s Drive

### Optical

- **Some**: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

### SATA controller

- **Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chassis**

### Onboard SATA

- **SATA cables match SATA devices (each 1-drop to device), one SATA 3.0Gb/s connector (for optical) and two SATA 6.0Gb/s connectors (for HDD/SSD) on planar**

### eSATA port

- **None**

### Media reader

- **Optional 9-in-1 media reader, internal USB 2.0**

### Chipset

- **Intel H81 Express Chipset**

### Front ports

- **Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)**
- **Two USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), VGA DB-15, DisplayPort**

### Rear audio ports

- **Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)**

### Audio

- **High Definition (HD) Audio, Realtek® ALC662 codec**

### PCIe WLAN

- **Some**: 11b/g/n wireless, PCI Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
- **Some**: 11b/g/n wireless, PCI Half Mini Card, Realtek RTL8723BE, Wi-Fi/BT 4.0, 1x1

### Bluetooth

- **Some**: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Speaker

- **Internal speaker for business audio (1.5 watts)**

### IEEE 1394

- **None**

### Ethernet

- **Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN™**

### Manageability

- **None**

### Modem

- **None**

### Security

- **One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock) -Security slot (in rear for optional Kensington® MicroSaver® cable)**
- **Power-on password**
- **Administrator password**
- **Hard disk password**
- **Boot sequence control**
- **Boot without keyboard and mouse**
- **Serial port I/O control**
- **Individual USB port disablement**
- **Chassis intrusion switch on selected model(s)**

### Mechanical

- **Business black color; metal case**
- **6.3" W X 16.8" D X 15.3" H (with handle)**
- **160mm W X 422mm D X 388mm H**
- **20.7 lb (9.4 kg) in maximum configuration**
- **Handle on top front**
- **Highlighted optical drive button for easy access**
- **Bay**
  - **Bay 1: 5.25", 1.6" high, access, std optical**
  - **Bay 2: 3.5", 1.1" high, no access, opt disk**
  - **Bay 3: 3.5", 1.1" high, no access, std disk**
  - **Bay 4: 1.5", 3.5" high, access, opt reader**
  - *bay only available on models with HDD/SSD/reader installed*
- **Slot**
  - **Slot 1: half-length, full-height, PCIe 2.0 x1 (60w max)**
  - **Slot 2: half-length, full-height, PCIe 2.0 x1**
  - **Slot 3: half-length, full-height, PCIe 2.0 x1**

### Preloaded operating system

- **Some**: Windows® 7 Professional 64
- **Some**: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- **Some**: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)

- **Rescue and Recovery™**
- **Password Manager**

### Preloaded applications (only some listed)

- **ThinkVantage® Product Recovery**
- **ThinkVantage System Update**
- **ThinkVantage Communication Utility**
- **ThinkVantage Power Manager**
- **View Management Utility**
- **PC Device Stage**
- **Lenovo Cloud Storage by SugarSync**
- **Lenovo Solution Center**
- **Lenovo Message Center Plus**
- **Norton™ Internet Security**
- **Norton™ Norton Security (30 days of virus definitions)**
- **Adobe® Reader™**
- **Skype™**
- **Evernote®**
- **Microsoft® Office preloaded; purchase a product key to activate**
- **Cyberlink Power2Go® (DVD±RW)**
- **Cyberlink PowerProducer® (DVD±RW)**
- **Nitro Pro**

### Limited Warranty

- **3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available**

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*See footnotes for important warranty information ©Lenovo (MLM1T-4) July 2014*
ThinkCentre M73z All-In-One

ThinkCentre M73z with Frame Stand and optional wireless keyboard and mouse

ThinkCentre M73z with Monitor Stand and optional wireless keyboard and mouse

ThinkCentre M73z with Frame Stand with optional PS/2 and Serial ports

ThinkCentre M73z with Monitor Stand with optional PS/2 and Serial ports

ThinkCentre M73z with Frame Stand with optional wireless keyboard and mouse

ThinkCentre M73z with Monitor Stand with optional wireless keyboard and mouse
## ThinkCentre M73z (10BC) - TopSeller (1-year Onsite)

<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCle Mini Card</th>
<th>Media reader</th>
<th>Chassis intrusion &amp; PS/2 port</th>
<th>Serial type</th>
<th>Keyboard/ Mouse</th>
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</table>

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **1-year limited warranty**

**Positioning**

Mainstream All-In-One PC for the enterprise

**Processor**

Intel® Pentium® G3220 Processor (2 cores / 2 threads), 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller

Intel Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation**

Processor in LGA1150 socket

**Memory**

16GB max, 1600MHz DDR3L, two 204-pin SODIMM sockets (notebook)

*System automatically clocks down for processors with 1333MHz memory controller

**Graphics**

Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, external digital monitor support via VGA, supports dual independent display;

Maximum resolution: 1600x900 (panel) @60Hz;

1920x1200 (VGA) @60Hz (Reduced Blanking)

**DP dongle**

None

**Display**

20.0” (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Multi-touch**

None

**Camera**

Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p,

with digital microphone, physical switch on/off

**Controls**

Side buttons for brightness up, brightness down, and power on/off

**Disk**

Some: SATA 6.0Gb/s, 3.5” Wide, 7200 rpm

**Optical**

DVD burner, SATA 1.5Gb/s, 12.7mm high

**Media reader**

Optional 7-in-1 Single Slot media reader, via internal USB 2.0

**Chipset**

Intel H81 Express Chipset

**Rear ports**

Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)

Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

One PCI Express® Mini Card slot

Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 105, 1x1

**Ethernet**

None

**Audio**

High Definition (HD) Audio, Realtek ALC269VC

Two internal stereo speakers (2watt x 2)

**Intel AMT**

None

**Modem**

None

**IEEE 1394**

None

**Security chip**

Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**

Preferred Pro USB Keyboard (USB connector), Lenovo® logo

**Mouse**

Enhanced Optical USB Mouse, Lenovo logo

**Power supply**

150 watts, autosensing, 85% PSU

**Mechanical**

Business black color

Carry handle in rear

Support VESA mount (100mm)

With Frame stand:

19.9” W X 3.56” D X 15.9” H

506mm W X 90.5mm D X 404.75mm H

16.4 lb (7.46 kg) in maximum configuration

Adjustable stand (between 10° and 35°)

**With Monitor stand:**

19.9” W X 9.83” D X 16.7” H

506mm W X 249.8mm D X 423.9mm H

19.5 lb (8.84 kg) in maximum configuration

Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°

**Limited Warranty**

1-year limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information

US model(s) announced September 24, 2012

©Lenovo

(MDST1-4) September 2013

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**Preloaded operating system**

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Ready to install applications**

- Rescue and Recovery™
- Password Manager

**Preloaded applications**

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Lenovo Skype™
- Adobe® Reader®
- Microsoft Office preloaded;
- purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

**Security**

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- **Chassis intrusion switch on selected model(s)***

- EPEAT™ Gold rating
- ENERGY STAR® 6.0-compliant
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

---

*Please go to TC-AQP sheet; For compatible accessories, please go to TC-AQP sheet;*
### ThinkCentre M73z (10BC) - TopSeller

#### Product Specifications Reference (PSREF)

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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
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*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

**3-year limited warranty**

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**Positioning**

Mainstream All-In-One PC for the enterprise

**Processor**

Intel® Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller,

Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller,

Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation**

Processor in LGA1150 socket

**Memory**

16GB max, 1600MHz DDR3L, two 204-pin SODIMM sockets (notebook)

**Graphics**

Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; Maximum resolution: 1920x1200 (VGA)@60Hz; 1600x900 (panel)@60Hz; Maximum resolution: 1920x1200 (VGA)@60Hz (Reduced Blanking)

**Display**

20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Multi-touch**

None

**Camera**

Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off

**Controls**

Side buttons for brightness up, brightness down, and power on/off

**Disk**

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

**Optical**

DVD burner, SATA 1.5Gb/s, 12.7mm high

**Media reader**

Optional 7-in-1 Single Slot media reader, via internal USB 2.0

**Chipset**

Intel H81 Express Chipset

**Rear ports**

Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)

**Side ports**

Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

**PCle Mini Card**

One PCI Express x 1 Mini Card slot

**PCle WLAN**

Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

**Bluetooth**

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Ethernet**

One gigabit ethernet port, Intel I217-V

**Audio**

High Definition (HD) Audio, Realtek ALC269VC

**Speaker**

Two internal stereo speakers (2watt x 2)

**Intel AMT**

None

**Modem**

None

**IEEE 1394**

None

**Security chip**

Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**

Some: Preferred Pro USB Keyboard (USB connector), Lenovo® logo

Some: Ultrasmall Plus Wireless Keyboard (2.4GHz via USB receiver), black

Some: Enhanced Optical USB Mouse, Lenovo logo

Some: Ultrasmall Plus Wireless Mouse (2.4GHz via USB receiver), black

**Power supply**

150 watts, autosensing, 85% PSU

**Mechanical**

- Business black color
- Carry handle in rear
- Support VESA mount (100mm)
  
  **With Frame stand:** 19.9" W X 3.56" D X 15.9" H
  
  506mm W X 90.5mm D X 404.75mm H
  
  16.4 lb (7.46 kg) in maximum configuration
  
  Adjustable stand (between 10° and 35°)
  
  **With Monitor stand:** 19.5" W X 9.83" D X 16.7" H
  
  506mm W X 249.8mm D X 423.9mm H
  
  19.5 lb (8.84 kg) in maximum configuration
  
  Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°.

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

Preloaded operating system© Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
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- Desktop Power Manager
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- Lenovo Cloud Storage by SugarSync
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- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating

ENERGY STAR® 6.0-compliant

Cisco EnergyWise compatible

GREENGUARD® certified

RoHS-compliant

EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;

For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced September 24, 2012

©Lenovo (MDST1-1) September 2013
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**Positioning:**

Processor:

- **Intel® Celeron® G1820 Processor (2 cores / 2 threads, 2.7GHz, 2MB cache)**, Intel HD Graphics, 1333MHz DDR3 memory controller
- **Intel Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache)**, Intel HD Graphics, 1333MHz DDR3 memory controller
- **Intel Core® i5-430 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)**, Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- **Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)**, Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)**, Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Intel Core i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache)**, Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Processor** in LGA1150 socket

**Memory:**

- 16GB max, 1600MHz DDR3L, two 204-pin SODIMM sockets (notebook)
- System automatically clocks down for processors with 1333MHz memory controller

**Graphics:**

- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; **Maximum resolution:** 1600x900 (panel) @ 66Hz; 1920x1200 (VGA) @ 66Hz (Reduced Blanking)

**Display:**

- None

**Optical:**

- DVD burner, SATA 1.5GB/s, 12.7mm high

**Media reader:**

- Optional 7-in-1 Single Slot media reader, via internal USB 2.0

**Chipset:**

- Intel H81 Express Chipset

**Preloaded operating system:**

- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications (only some listed):**

- Rescue and Recovery™
- Password Manager

**Preloaded applications (only some listed):**

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

See footnotes for important warranty information ©Lenovo

US model(s) announced September 24 or November 12, 2013 or January 21 or March 4, 2014

(MDST1-2) March 2014
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<th>Graphics</th>
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Positioning Processor
● Mainstream All-In-One PC for the enterprise

Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),
Intel® Core™ i5-4590S Processor (4 cores / 4 threads, 3.7GHz, 3MB cache),
Intel® Core™ i5-4590S Processor (4 cores / 4 threads, 3.7GHz, 6MB cache),
Intel® Core™ i7-4790S Processor (4 cores / 8 threads, 3.4GHz, 6MB cache),
Turbo Boost 2.0 (3.7GHz), Intel® Core™ i5-4590S Processor,
Turbo Boost 2.0 (3.7GHz), Intel® Core™ i5-4590S Processor,
Turbo Boost 2.0 (3.6GHz), Intel® Core™ i7-4790S Processor

Implementation

Memory
16GB max, 1600MHz DDR3L, two 204-pin SODIMM slots (notebook)

Graphics
Intel® HD Graphics in processor, uses main memory, external digital monitor support via VGA, supports dual independent display;

Max resolution: 1920x1080 (VGA) @60Hz (Reduction Blanking)

Dongle

Display

20.0" (508mm) HD+ (1600x900) TFT color, LED backlight,
250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

Multi-touch

Camera
Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p,
with digital microphone, physical switch on/off

Controls
Side buttons for brightness up, brightness down, and power on/off

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory,
SATA 6.0Gb/s, 2.5" wide

Optical

DVD burner, SATA 1.5Gb/s, 12.7mm high

Media reader

Optional 7-in-1 Single Slot media reader, via internal USB 2.0

Chipset

Intel® H81 Express Chipset

Rear ports
Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin),
two optional PS/2 ports (keyboard and mouse)

Side ports
Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

PCIe Mini Card
One PCI Express® Mini Card slot

Some: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260,
Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260,
Wi-Fi + Bluetooth combo adapter, 2x2

Bluetooth

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Audio

High Definition (HD) Audio, Realtek ALC269VC

Speaker
Two internal stereo speakers (2watt x 2)

Intel AMT
None

Modern
None

IEEE 1994
None

Security chip
Trusted Platform Module (TPM 1.2-compliant)

Keyboard
Preferred Pro USB Keyboard (USB connector), Lenovo® logo

Mouse
Enhanced Optical USB Mouse, Lenovo logo

Power supply
150 watts, autosensing, 85% PSU

Mechanical
● Business black color
● Carry handle in rear
● Support VESA mount (100mm)

With Frame stand: 19.9" W X 3.56" D X 15.9" H
506mm W X 90.5mm D X 404.75mm H
16.4 lb (7.46 kg) in maximum configuration
Adjustable stand (between 10° and 35°)

With Monitor stand: 19.9" W X 9.83" D X 16.7" H
506mm W X 249.8mm D X 423.9mm H
19.5 lb (8.84 kg) in maximum configuration
Tilt: 10° to 25°, Lift: 110mm; Swivel: +/-45°

Limited Warranty
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

EPEAT® Gold rating
ENERGY STAR® 6.0-compliant
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EuP 2013 certified

Supports ThinkVantage Technologies
For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

©Lenovo (MDST1-8) October 2014
## ThinkCentre M73z (10BC) - TopSeller (Win8)

### Product Specifications Reference (PSREF)

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- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 3-year limited warranty

### Positioning
Mainstream All-In-One PC for the enterprise

### Processor
- **Intel Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller**

### Implementation
Processor in LGA1150 socket

### Memory
16GB max, 1600MHz DDR3L, two 204-pin SODIMM sockets (notebook)

### Graphics
- **Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, external digital monitor support via VGA, supports dual independent display;**
  - **Maximum resolution:** 1600x900 (panel) @ 60Hz;
  - 1920x1200 (VGA) @ 60Hz (ReducedBlanking)
- DP dongle: None
- Display: **20.0” (508mm)** HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
- Multi-touch: None
- Camera: Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off
- Controls: Side buttons for brightness up, brightness down, and power on/off

### Disk
- **Some:** Sata 6.0Gb/s, 3.5”Wide, 7200 rpm
- Optical: DVD burner, SATA 1.5Gb/s, 12.7mm high
- Media reader: Optional 7-in-1 Single Slot media reader, via internal USB 2.0

### Chipset
Intel H81 Express Chipset

### Rear ports
- Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)
- Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- One PCI Express® Mini Card slot
- **Some:** 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
- Bluetooth: Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- Ethernet: One gigabit ethernet port, Intel I217-V
- Audio: High Definition (HD) Audio, Realtek ALC269VC
- Speaker: Two internal stereo speakers (2watt x 2)
- Intel AMT: None
- Modem: None
- IEEE 1394: None
- Security chip: Trusted Plattform Module (TPM 1.2-compliant)

### Keyboard/ Mouse
- Preferred Pro USB Keyboard (USB connector), Lenovo™ logo
- Enhanced Optical USB Mouse, Lenovo logo
- 150 watts, autosensing, 85% PSU

### Mechanical
- Business black color
- Carry handle in rear
- Support VESA mount (100mm)
- With Frame stand: 19.0” W X 3.56” D X 15.9” H
  - 506mm W X 90.5mm D X 404.75mm H
  - 16.4 lb (7.46 kg) in maximum configuration
  - Adjustable stand (between 10° and 35°)
- With Monitor stand: 19.0” W X 9.83” D X 16.7” H
  - 506mm W X 249.8mm D X 423.9mm H
  - 19.5 lb (8.84 kg) in maximum configuration
  - Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;

### Limited Warranty
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

### Preloaded operating system
- Windows® 8 Pro 64-bit

### Web install applications (only some listed)
- Password Manager
- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security
- Skype®
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Nitro Pro
- AccuWeather
- Norton™ Studio

### Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)
- EPEAT™ Gold rating
- ENERGY STAR® 6.0-compliant
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

©Lenovo (MDST1-3) September 2013
<table>
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<th>Type-model</th>
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<td>09/24/13</td>
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</tbody>
</table>

**Positioning**

- Mainstream All-In-One PC for the enterprise

**Processor**

- ThinkCentre M73z (10BB)

**Graphics**

- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, external digital monitor support via VGA, supports dual independent display;
- Maximum resolution: 1600x900 (panel) @ 60Hz;
- 1920x1200 (VGA) @ 60Hz (Reduced Blanking);
- Intel HD Graphics 4400, 1600MHz DDR3 memory controller

**Memory**

- 16GB max, 1600MHz DDR3L, two 204-pin SODIMM sockets (notebook)
- System automatically clocks down for processors with 1333MHz memory controller

**Preloaded operating system**

- Some: Windows 7 Professional 64
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Ready to install applications** (only some listed)

- Rescue and Recovery™
- Password Manager

**Preloaded applications** (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Nitro Pro

**Chipset**

- Intel H81 Express Chipset

**Rear ports**

- Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)

**Side ports**

- Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

**PCle Mini Card**

- One PCI Express® Mini Card slot

**PCle Mini Card**

- Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
- Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

**Bluetooth**

- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Ethernet**

- One gigabit ethernet port, Intel I217-V

**Audio**

- High Definition (HD) Audio, Realtek ALC269VC

**Speaker**

- Two internal stereo speakers (2 watt x 2)

**Intel AMT**

- None

**Modem**

- None

**IEEE 1394**

- None

**Security chip**

- Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**

- Some: Preferred Pro USB Keyboard (USB connector), Lenovo® logo
- Some: Ultrasonic Plus Wireless Keyboard (2.4GHz via USB receiver), black

**Mouse**

- Some: Enhanced Optical USB Mouse, Lenovo logo
- Some: Ultrasonic Plus Wireless Mouse (2.4GHz via USB receiver), black

**Power supply**

- 150 watts, auto-sensing, 85% PSU

**Mechanical**

- Business black color
- Carry handle in rear
- Support VESA mount (100mm)

**Limited Warranty**

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory*</th>
<th>Camera (megapixel)</th>
<th>Disk</th>
<th>Graphics</th>
<th>PCle Mini Card</th>
<th>Chassis intrusion switch</th>
<th>Serial PS/2 port</th>
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**Positioning**
Mainstream All-In-One PC for the enterprise

**Implementation**

**Memory**
16GB max, 1600MHz DDR3L, two 204-pin SODIMM sockets (notebook)

*System automatically clocks down for processors with 1333MHz memory controller

**Graphics**
Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, external digital microphone support via VGA, supports dual independent display;
Maximum resolution: 1600x900 (panel); 1920x1200 (VGA) @60Hz; 20.0" (508mm)

**Display**
20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Multi-touch**
Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off

**Controls**
Side buttons for brightness up, brightness down, and power on/off

**Disk**
Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

**Optical**
DVD burner, SATA 1.5Gb/s, 12.7mm high

**Media reader**
Optional 7-in-1 Single Slot media reader, via internal USB 2.0

**Chipset**
Intel H81 Express Chipset

**Rear ports**
Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)

**Side ports**
Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

**PCle Mini Card**
One PCI Express Mini Card slot

**PCie WLAN**
Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino Wireless-N 105, 1x1
Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11b/g/n wireless, PCle Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2

**Bluetooth**
Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Ethernet**
One gigabit ethernet port, Intel I217-V

**Audio**
High Definition (HD) Audio, Realtek ALC269VC

**Speaker**
Two internal stereo speakers (2watt x 2)

**Intel AMT**
None

**Modem**
None

**IEEE 1394**
None

**Security chip**
Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**
Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

**Mouse**
Some: Enhanced Optical USB Mouse, Lenovo logo
Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

**Power supply**
150 watts, autosensing, 85% PSU

**Mechanical**
- Business black color
- Carry handle in rear
- Support VESA mount (100mm)
With Frame stand:
- 19.9" X 9.83" X 18.7" H
- 506mm W x 9.5mm D x 405mm H
- 16.4 lb (7.46 kg) in maximum configuration
- Adjustable stand (between 10° and 35°)
With Monitor stand:
- 19.9" X 9.83" X 18.7" H
- 506mm W x 249.8mm D x 423.9mm H
- 19.5 lb (8.84 kg) in maximum configuration
- Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;

**Limited Warranty**
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information

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(MDST1-9) December 2014
<table>
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<tr>
<th>Type-model</th>
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<th>Disk</th>
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<th>PCIe Mini Card</th>
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<th>Chassis intrusion switch</th>
<th>Serial PS/2 port</th>
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</table>

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

Positioning
Mainstream All-In-One PC for the enterprise

Processor
Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller

Intel Core i5-4570S Processor (4 cores / 4 threads, 3.8GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Intel Core i5-4590S Processor (4 cores / 4 threads, 3.6GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Implementation
Processor in LGA1150 socket

Memory
16GB max. 1600MHz DDR3L, two 204-pin SODIMM sockets (notebook)

Graphics
Intel HD Graphics on Intel HD Graphics 4600 in processor, uses main memory, external digital monitor support via VGA, supports dual independent display; Maximum resolution: 1600x900 (panel) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)

Display
20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

Multi-touch
None

Camera
Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off

Controls
Side buttons for brightness up, brightness down, and power on/off

Disk
Some:
SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Optical
DVD burner, SATA 1.5Gb/s, 12.7mm high

Media reader
Optional 7-in-1 Single Slot media reader, via internal USB 2.0

Chipset
Intel H81 Express Chipset

Rear ports
Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)

Side ports
Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

PCIe Mini Card
One PCI Express® Mini Card slot

PCIe WLAN
Some:
11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Some:
11b/g/n wireless, PCle Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2

Bluetooh
Some:
Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet
One gigabit ethernet port, Intel I217-V

Audio
High Definition (HD) Audio, Reaatek ALC269VC

Speaker
Two internal stereo speakers (2watt x 2)

Intel AMT
None

Modem
None

IEEE 1394
None

Security chip
Trusted Platform Module (TPM 1.2-compliant)

Keyboard
Preferred Pro USB Keyboard (USB connector), Lenovo™ logo

Mouse
Enhanced Optical USB Mouse, Lenovo logo

Power supply
150 watts, autosensing, 85% PSU

Mechanical
● Business black color
● Carry handle in rear
● Support VESA mount (100mm)

With Frame stand:
19.9" W X 3.56" D X 15.9" H
506mm W X 90.5mm D X 404.75mm H
16.4 lb (7.46 kg) in maximum configuration
Adjustable stand (between 10° and 35°)

With Monitor stand:
19.9" W X 9.83" D X 16.7" H
506mm W X 243.8mm D X 423.9mm H
19.5 lb (8.84 kg) in maximum configuration
Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°;

Limited Warranty
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system
Some:
Windows 7 Professional 64
Some:
Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications
(only some listed)
● Rescue and Recovery™
● Password Manager

Preloaded applications
(only some listed)
● ThinkVantage® Product Recovery
● ThinkVantage System Update
● ThinkVantage Communication Utility
● ThinkVantage Device Experience
● ThinkVantage AutoLock
● Desktop Power Manager
● View Management Utility
● Lenovo Cloud Storage by SugarSync
● Lenovo Solution Center
● Lenovo Message Center Plus
● Norton™ Internet Security
(30 days of virus definitions)
● Adobe® Reader®
● Skype™
● Microsoft Office preloaded:
purchase a product key to activate
● Cyberlink Power2Go (DVD±RW)
● Cyberlink PowerProducer (DVD±RW)
● Evernote
● Intel AppUp
● Nitro Pro

Security
● Security chip (see information on left)
● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
● Power-on password
● Administrator password
● Hard disk password
● Boot sequence control
● Boot without keyboard and mouse
● USB port disablement
● Chassis intrusion switch on selected model(s)

ENERGY STAR® Gold rating
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
EUP 2013 Certified
Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet
### ThinkCentre M73z (10BB) - GMP (Win8/8.1)

#### Product Specifications Reference (PSREF)

**Type-model** | **Processor** | **Memory** | **Camera** | **Disk** | **Graphics** | **PCIe Mini Card** | **Media reader** | **Chassis intrusion switch** | **Serial PS/2 port** | **Stand type** | **Keyboard/Mouse** | **Global (G) GMP (P)** | **Preload** | **Ann date (mm/dd/yy)** | **Description**
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
10BB001CUS i5-4570S | 4GBx1 | 1600MHz | HD 4600 | N2230 | Media Switch | None | None | Frame | USB | G P | Win8 Pro64 | 09/24/13 |
10BB003VUS i5-4590S | 4GBx1 | 1600MHz | HD 4600 | N7260 | Media Switch | None | None | Frame | USB | G P | Win8.1 Pro64 | 02/25/14 |
10BB004PUS i5-4590S | 4GBx1 | 1600MHz | HD 4600 | N7260 | Media Switch | None | None | Frame | USB | G P | Win8.1 Pro64 | 06/24/14 |

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

#### Positioning

Mainstream All-In-One PC for the enterprise

#### Processor

**Intel** Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),

Turbo Boost 2.0 (3.6GHz), Intel Graphics 4600, 1600MHz DDR3 memory controller

**Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),

Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Processor in LGA1150 socket

#### Implementation

**Memory**

16GB max, 1600MHz DDR3L, two 204-pin SODIMM sockets (notebook)

**Graphics**

**Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses main memory, external digital monitor support via VGA, supports dual independent display;

Maximum resolution: 1600x900 (panel)@60Hz; 1920x1200 (VGA)/60Hz (Reduced Blankings)

**Display**

20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Multi-touch**

None

**Camera**

Optional camera on top of screen, 1.0-megapixel, fixed focus, supports 720p, with digital microphone, physical switch on/off

**Controls**

Side buttons for brightness up, brightness down, and power on/off

**Disk**

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

**Optical**

DVD burner, SATa 1.5Gb/s, 12.7mm high

**Media reader**

Optional 7-in-1 Single Slot media reader, via internal USB 2.0

#### Chipset

**Intel H81 Express Chipset**

**Rear ports**

Four USB 2.0, ethernet (RJ-45), VGA out connector, optional serial (9-pin), two optional PS/2 ports (keyboard and mouse)

**Side ports**

Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

**PCie Mini Card**

One PCI Express® Mini Card slot

**PCie WLAN**

Some: 11b/g/h wireless, PCie Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

Some: 11b/g/n wireless, PCie Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2

**Bluetooh**

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Ethernet**

One gigabit ethernet port, Intel I217-V

**Audio**

High Definition (HD) Audio, Realtek ALC269V C

**Speaker**

Two internal stereo speakers (2watt x 2)

**Intel AMT**

None

**Modem**

None

**IEEE 1994**

None

**Security chip**

Trusted Platform Module (TPM 1.2-compliant)

**Keyboard Mouse**

Preferred Pro USB Keyboard (USB connector), Lenovo logo

Enhanced Optical USB Mouse, Lenovo logo

**Power supply**

150 watts, autosensing, 85% PSU

**Mechanical**

- Business black color
- Carry handle in rear
- Support VESA mount (100mm)

With Frame stand: 19.9" W X 3.56" D X 15.9" H

506mm W X 90.5mm D X 404.75mm H

16.4 lb (7.46 kg) in maximum configuration

Adjustable stand (between 10° and 35°)

With Monitor stand: 19.9" W X 9.83" D X 16.7" H

506mm W X 249.8mm D X 423.9mm H

19.5 lb (8.84 kg) in maximum configuration

Tilt: 10° to 25°; Lift: 110mm; Swivel: +/-45°

#### Preloaded operating system

Some: Windows® 8 Pro 64-bit

Some: Windows 8.1 Pro 64-bit

#### Web install applications (only some listed)

- Password Manager

#### Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility (for Windows 8 only)
- Lenovo Cloud Storage by SugarSync (for Windows 8 only)
- Lenovo Solution Center
- Lenovo Support
- Norton Internet Security (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink PowerGo (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote™
- Intel AppUp
- Nitro Pro
- AccuWeather
- Norton Security
- Pokki (for Windows 8.1 only)
- Hightail (for Windows 8.1 only)

#### Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating

ENERGY STAR® 6.0-compliant

Cisco EnergyWise compatible

GREENGUARD® certified

RoHS-compliant

EuP 2013 Certified

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;

For Lenovo service upgrade options, please go to S-TC sheet

#### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information
ThinkCentre M78 Small and Tower

Lenovo ThinkCentre M78 Small and Tower

Lenovo ThinkCentre M78 Small with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 Small and Tower

Lenovo ThinkCentre M78 Tower with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 Tower

Lenovo ThinkCentre M78 Tower
ThinkCentre M78 Small (10BU) - TopSeller

Product Specifications Reference (PSREF)

- **Mainstream enterprise stability and manageability**
- **3-year limited warranty**

### Positioning
- **Processor**: AMD APU A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz)
- **Memory**: 32GB max,
- **Audio**: High Definition (HD) Audio, Realtek
- **Internal connector**: Two USB 2.0 planar conn (1 used; one open for additional USB device)
- **Chipset**: AMD A75 Chipset
- **Power supply**: 240 watts, autosensing
- **Machine**: Business black color; metal case
  - 13.3" W X 15.0" D X 3.9" H
  - 3.39mm W X 38.1mm D X 100mm H
  - 16.5 lb (7.5 kg) in maximum configuration
  - Toolless cover flips up and tilts backward on rear hinges
  - Toolless disk and optical drive removal

### Graphics
- **AMD Radeon™ HD 8570D**: DirectX 11, 3D Hardware Acceleration,
- **Video**: HD 8570D Graphics, DDR3 memory controller (up to 1600MHz)

### DP Cable
- **Some**: DisplayPort to DisplayPort monitor cable

### Disk
- **Some**: SATA 6.0Gb/s to 7200 rpm
- **Some**: Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

### Security
- **Security chip**: Trusted Platform Module (TPM 1.2-compliant)
- **Toolless adapter retention**
- **Individual USB port Disablement**
- **Boot sequence control**
- **Administrator password**
- **Power-on password**
- **Cable lock**
- **System floor stand for vertical orientation**
- **PS/2**
- **USB**
- **PS/2**

### Preloaded operating system
- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

### Security
- **Security chip (see information on left)
- **Security slot (in rear for attachment of optional Kensington™ MicroSaver® cable)

### Preloaded applications
- **ThinkVantage™ Product Recovery
- **ThinkVantage System Update
- **ThinkVantage Communication Utility
- **ThinkVantage Power Manager
- **View Management Utility
- **PC Device Stage
- **Lenovo Cloud Storage by SugarSync
- **Lenovo Solution Center
- **Lenovo Message Center Plus
- **Norton™ Internet Security
- **Adobe® Reader®
- **Skype™
- **Evernote®
- **Microsoft® Office preloaded; purchase a product key to activate
- **Cyberlink Power2Go (DVD±RW)
- **Cyberlink PowerProducer (DVD±RW)
- **Nitro Pro

### Limits
- **Limited Warranty**: 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
### ThinkCentre M78 Small (10BT) - 1-year onsite

#### Type-model Slot x bay Processor Memory* SATA disk GB rpm SATA optical PCie WLAN Media reader Graphics Chassis Intrusion switch PS/2 port 2nd Serial Floor stand DP to DP Cable Preload Ann date (mm/dd/yy)

| 10BT0004US | 4x3 | A8-5500B | 8GBx1 | 1TB 7200 | DVD±RW | None | Media HD 8570 | None | None | Serial Stand Cable | Win7 Pro64 (DG) | 10/01/13 |
| 10BT0005US | 4x3 | A4-5300 | 4GBx1 | 500G 7200 | DVD±RW | None | None | HD 7480D | None | None | Serial Stand None | Win7 Pro64 (DG) | 10/01/13 |
| 10BT0006US | 4x3 | A6-5400B | 4GBx1 | 500G 7200 | DVD±RW | N105 | Media HD 7540D | None | None | Serial Stand Win7 Pro64 (DG) | 10/01/13 |

#### Preloaded operating system
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

#### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

#### Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Lenovo Cloud Storage by SugarSync

#### Limited Warranty
1-year limited warranty

#### Product Specifications Reference (PSREF)

- **Positioning**
  - Mainstream enterprise stability and manageability

- **Processor**
  - **AMD APU A4-5300** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz),
  - **AMD Radeon™ 7480D Graphics, DDR3 memory controller (up to 1600MHz)**,
  - **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz),
  - **AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz)**

- **Memory**
  - 32GB max.

- **Graphics**
  - **AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors;
  - **Maximum resolution**: 1920x1080 (VA) @ 60Hz; 2560x2048 (DisplayPort) @ 60Hz

- **Chipset**
  - **AMD A75 Chipset**

- **Disk**
  - SATA 6.0Gb/s 7200 rpm

- **Optical**
  - Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

- **SATA controller**
  - Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1

- **Onboard SATA**
  - Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar

- **Media reader**
  - Some: 29-in-1 media reader, internal USB 2.0

- **Memory reader**
  - None

- **Audio**
  - High Definition (HD) Audio, Realtek® ALC662 codec

- **Speaker**
  - None

- **IEEE 1394**
  - None

- **Ethernet**
  - One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®

- **Modem**
  - None

- **Security chip**
  - Trusted Platform Module (TPM 1.2-compliant)

- **Keyboard**
  - Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

- **Mouse**
  - Enhanced Optical USB Mouse, black, Lenovo logo

- **Floor Stand**
  - System floor stand for vertical orientation

- **Power supply**
  - 240 watts, autosensing

- **Machine**
  - Business black color; metal case
  - 13.3" W X 15.0" D X 3.9" H
  - 339mm W X 381mm D X 100mm H
  - 16.5 lb (7.5 kg) in maximum configuration
  - Toolless cover flips up and tilts backward on rear hinges
  - Toolless disk and optical drive removal
  - Toolless adapter retention

- **Bay**
  - **Bay 1**: 5.25", 1.6" high, access, std optical
  - **Bay 2**: 3.5", 1" high, no access, std disk
  - **Bay 3**: 3.5", 5" high, access, opt reader

- **Slot**
  - Slot 1: Low Profile, PCI Express 2.0 x16 (40w max)
  - Slot 2: Low Profile, PCIe 2.0 x1
  - Slot 3: Low Profile, 32-bit PCI 2.3
  - Slot 4: Low Profile, 32-bit PCI 2.3

- **Limited Warranty**
  - 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information

US model(s) announced October 1, 2013

©Lenovo (ADR1S-2) October 2013
## ThinkCentre M78 Small (10BT)

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory*</th>
<th>SATA disk GB rpm</th>
<th>SATA optical</th>
<th>PCIe WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Chassis Intrusion switch</th>
<th>PS/2 port</th>
<th>Floor stand</th>
<th>DP to DP Cable</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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<tbody>
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<td>A4-5300B</td>
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<td>A6-6400B</td>
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</table>

### Preloaded operating system

- **Some:** Windows® 7 Professional 64
- **Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Service Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go® (DVD±RW)
- Cyberlink PowerProducer® (DVD±RW)
- Nitro Pro

### Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-ADP sheet.

For Lenovo service upgrade options, please go to S-TC sheet.

---

### Limited Warranty

- **3-years, limited onsite service**
- 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

*See footnotes for important warranty information*  
US model(s) announced October 1, 2013  
©Lenovo (ADR1S-3) October 2013
<table>
<thead>
<tr>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
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<th>SATA optical</th>
<th>PCIe WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Chassis Intrusion switch</th>
<th>PS/2 port</th>
<th>2nd Serial/Parallel</th>
<th>Floor stand</th>
<th>DP to DP Cable</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x3</td>
<td>AMD APU A8-6500B (quad-core, 3.5GHz, 4MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)</td>
<td>32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets</td>
<td>SATA 6.0Gb/s/7200 rpm</td>
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<tr>
<td>Graphics</td>
<td>AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; Maximum resolution: 1920x1080 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz</td>
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- **3-year limited warranty**

### Preloaded operating system
- Windows® 8 Pro 64-bit

### Ready to install applications (only some listed)
- Password Manager
- Norton™ Internet Security (30 days of virus definitions)
- Norton Studio

### Preloaded applications (only some listed)
- ThinkVantage® System Update
- View Management Utility
- Lenovo® Support Tools
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Desktop Power Manager
- PC Device Stage
- Evernote™
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio

### Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Limited Warranty
- 3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information.

US model(s) announced October 1, 2013
## Product Specifications Reference (PSREF)

**ThinkCentre M78 Small (10BS) - ES 5.2 (GMP)**

### Positioning
Mainstream enterprise stability and manageability

### Processor
**AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz)

### Memory
**32GB max,** Implementation Processor in Socket FM2

### Graphics
**AMDRadeon HD 7480D Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort®, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors; **Maximum resolution:** 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz

### Disk
- **SATA disk**
  - GB: 1TB rpm: 7200

### Optical
Some:
- **Optical:**
  - **Disk SATA 6.0Gb/s**
  - **GB rpm**: 7200 rpm

### Front ports
- **Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)**

### Rear ports
- **Four USB 2.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)**

### Rear audio ports
- **Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)**

### Speaker
- **Internal connector**
  - **11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1

### Audio
- **High Definition (HD) Audio, Realtek® ALC662 code**

### Security
- **Security chip**
  - **Security chip**
    - **Toolless adapter retention
    - **Toolless cover flips up and tilts backward on rear hinges
    - **Toolless disk and optical drive removal
    - **Toolless adapter retention

### Keyboards
- **Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

### Security
- **Security chip (see information on left)
  - **Security chip**
    - **Power-on password
    - **Administrator password
    - **Hard disk password
    - **Boot sequence control
    - **Boot without keyboard and mouse
    - **Individual USB port disablement
    - **Chassis intrusion switch on selected model(s)

### Machine
- **Business black color; metal case
- **Size**: 13.9" W X 15.0" D X 3.9" H
- **339mm W X 381mm D X 100mm H
- **16.5 lb (7.5 kg) in maximum configuration
- **Toolless cover flips up and tilts backward on rear hinges
- **Toolless disk and optical drive removal
- **Toolless adapter retention

### Panel
- **Bay**
  - **Bay 1**: 5.25", 1.6" high, access, std optical
  - **Bay 2**: 3.5", 1.9" high, no access, std disk
  - **Bay 3**: 3.5", 5" high, access, opt reader

### Slot
- **Slot 1**: Low Profile, PCI Express 2.0x16 (40w max)
- **Slot 2**: Low Profile, PCIe 2.0 x1
- **Slot 3**: Low Profile, 32-bit PCI 2.3
- **Slot 4**: Low Profile, 32-bit PCI 2.3

### Preloaded operating system
- **Some:** Windows® 7 Professional 64
- **Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

### Ready to install applications (only some listed)
- **Rescue and Recovery™
- **Password Manager

### Security
- **Security chip**
  - **Security chip**
    - **Power-on password
    - **Administrator password
    - **Hard disk password
    - **Boot sequence control
    - **Boot without keyboard and mouse
    - **Individual USB port disablement
    - **Chassis intrusion switch on selected model(s)

### Limited Warranty
- **3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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See footnotes for important warranty information

US model(s) announced October 1, 2013

©Lenovo (ADR1S-5) October 2013
ThinkCentre M78 Tower (10BQ)  
Product Specifications Reference (PSREF)

Positioning  
Mainstream enterprise stability and manageability

Processor  
AMD APU A4-5300 (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz), AMD APU A4-5300B (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon HD 7480D Graphics, DDR3 memory controller (up to 1600MHz)

AMD APU A4-6300B (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1600MHz)

AMD APU A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz)

AMD APU A6-6400B (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz)

AMD APU A8-5500B (quad-core, 3.2GHz, 4MB L3 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)

Graphics  
AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors

Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz

Some:

- AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)
- AMD Radeon HD 7480D Graphics, DDR3 memory controller (up to 1600MHz)

DP cable
None

Disk
Some: SATA 6.0Gb/s 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB LLC NAND flash memory, SATA 6.0Gb/s, 2.5” wide

Optical
Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

SATA controller
Serial ATA, SATA 6.0Gb/s, integrated in chassis, RAID 0/1

Onboard SATA
Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar

eSATA port
None

Media reader
None

Chipset  
AMD A75 Chipset

Front ports
Two USB 2.0, microphone ( stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports
Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optical keyboard (PS/2), optional mouse (PS/2)

Rear audio ports
Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

PCIe WLAN
None

Internal connector
Two USB 2.0 planar conn (1 used; one open for additional USB device)

Audio
High Definition (HD) Audio, Realtek™ ALC662 codec

Speaker
Internal speaker for business audio

IEEE 1394
None

Ethernet
One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®

Modem
None

Security chip
Trusted Platform Module (TPM 1.2-compliant)

Keyboard
Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

Mouse
Enhanced Optical USB Mouse, black, Lenovo logo

Power supply
280 watts, manual switch

Machine
- Business black color; metal case
- 6.9” W X 17.4” D X 16.3” H
- 175mm W X 442mm D X 414mm H
- 27.5 lb (12.5 kg) in maximum configuration
- Toolless disk, optical drive removal

Bay
Bay 1: 5.25”, 1.6” high, access, std optical
Bay 2: 5.25”, 1.6” high, access, open
Bay 3: 3.5”, 1” high, access, opt reader
Bay 4: 3.5”, 1” high, no access, std disk
Bay 5: 3.5”, 1” high, no access, opt disk
*Bay only available on models with HDD/SSD/reader installed

Slot
Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)
Slot 2: half-length, full-height, PCI Express 2.0 x1
Slot 3: half-length, full-height, 32-bit PCI 2.3
Slot 4: half-length, full-height, 32-bit PCI 2.3

Limited Warranty
3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system
Some: Windows® 7 Professional 64

Preloaded applications (only some listed)
- Rescue and Recovery™
- Password Manager
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- llow virus definitions
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  -Padlock loop (in rear for opt padlock)
  -Security slot (in rear for optional Kensington™ MicroSaver® cable)
- Cable lock
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disableness
- Chassis intrusion switch on selected model(s)

RoHS-compliant
Supports ThinkVantage Technologies
For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to 5-TC sheet

See footnotes for important warranty information

US model(s) announced October 1, 2013

©Lenovo (ADR1T-2) October 2013
**ThinkCentre M78 Tower (10BQ) - II**

**Product Specifications Reference (PSREF)**

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<th>SATA disk</th>
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<th>PCie WLAN</th>
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<th>Graphics</th>
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- **3-year limited warranty**

**Positioning**

Mainstream enterprise stability and manageability

**Processor**

- AMD APU A4-6300B (dual-core, 3.7GHz, 1MB L2 cache), Turbo Core (up to 3.9GHz), AMD Radeon™ HD 8370D Graphics, DDR3 memory controller (up to 1600MHz)
- AMD APU A6-6400B (dual-core, 3.9GHz, 1MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8470D Graphics, DDR3 memory controller (up to 1866MHz)
- AMD APU A8-6500B (quad-core, 3.5GHz, 4MB L2 cache), Turbo Core (up to 4.1GHz), AMD Radeon HD 8570D Graphics, DDR3 memory controller (up to 1866MHz)

**Memory**

- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**

- AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX™ 11, one VGA, one DisplayPort™, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors;
- Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz
- Some: AMD Radeon™ HD 8570, DirectX11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x elec), one VGA, one HDMI, 40 watts;
- Max resolution: 4096x2160 (HDMI) @24Hz; 2048x1536 (VGA) @85Hz

**Disk**

- Some: SATA 6.0Gbps/7200 rpm

**Optical**

- Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

**SATA controller**

- Serial ATA, SATA 6.0Gbps, integrated in chipset, RAID 0/1

**Onboard SATA eSATA port**

- Two SATA cables (each 1-drop to device), four SATA 6.0Gbps connectors on planar

**Media reader**

- None

**Chipset**

- AMD A75 Chipset

**Front ports**

- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

**Rear ports**

- Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)

**Rear audio ports**

- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

**Internal connector**

- Two USB 2.0 planar conn (1 used; one open for additional USB device)

**Audio**

- High Definition (HD) Audio, Reatek® ALC662 codec

**Speaker**

- Internal speaker for business audio

**IEEE 1394**

- None

**Ethernet**

- One gigabit ethernet port, Reatek RTL8111E, Wake on LAN®

**Modem**

- None

**Security chip**

- Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**

- Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

**Mouse**

- Enhanced Optical USB Mouse, black, Lenovo logo

**Power supply**

- 280 watts, manual switch

**Machine**

- Business black color; metal case
- 6.9” W x 17.4” D x 16.3” H
- 175mm W x 442mm D x 414mm H
- 27.5 lb (12.5 kg) in maximum configuration
- Toolless cover removal, toolless adapter retention
- Toolless disk, optical drive removal

**Bay**

- Bay 1: 5.25”, 1.6” high, access, std optical
- Bay 2: 5.25”, 1.6” high, access, open
- Bay 3: 3.5”, 1” high, access, opt reader*
- Bay 4: 3.5”, 1” high, no access, std disk
- Bay 5: 3.5”, 1” high, no access, opt disk*
- Bay only available on models with HDD/SSD/reader installed

**Slot**

- Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)
- Slot 2: half-length, full-height, PCI Express 2.0 x1
- Slot 3: half-length, full-height, 32-bit PCI 2.3
- Slot 4: half-length, full-height, 32-bit PCI 2.3

**Preloaded operating system**

- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Ready to install applications**

- Only some listed:
  - Rescue and Recovery™
  - Password Manager

**Preloaded applications**

- Only some listed:
  - ThinkVantage® Product Recovery
  - ThinkVantage System Update
  - ThinkVantage Communication Utility
  - ThinkVantage Power Manager
  - View Management Utility
  - PC Device Stage
  - Lenovo Cloud Storage by SugarSync
  - Lenovo Solution Center
  - Lenovo Message Center Plus
  - Norton™ Internet Security
  - Adobe® Reader®
  - Skype™
  - Evernote®
  - Microsoft® Office preloaded; purchase a product key to activate
  - Cyberlink Power2Go (DVD±RW)
  - Cyberlink PowerProducer (DVD±RW)
  - Nitro Pro

**Limited Warranty**

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information

US model(s) announced October 1, 2013

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(ADR1T-3) October 2013
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### Positioning
- Mainstream enterprise stability and manageability

### Processor
- AMD APU A8-5500B (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)

### Implementation
- Processor in Socket FM2

### Memory
- 32GB max, UDIMM, 1600MHz DDR3, four 240-pin DIMM sockets

### Graphics
- AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX 11, one VGA, one DisplayPort, supports dual independent display, works along with optional discrete graphics to support up to four independent monitors;
- Maximum resolution: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz
- Some: AMD Radeon HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz

### Disk
- Some: SATA 6.0Gbps 7200 rpm

### Optical
- Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

### SATA controller
- Serial ATA, SATA 6.0Gbps, integrated in chipset, RAID 0/1

### Onboard SATA
- Two SATA cables (each 1-drop to device), four SATA 6.0Gbps connectors on planar

### Media reader
- None

### Chipset
- AMD A75 Chipset

### Front ports
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

### Rear ports
- Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)

### Rear audio ports
- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

### PCle WLAN
- 11b/g/n wireless, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

### Speaker
- Internal speaker for business audio

### IEEE 1394
- None

### Ethernet
- One gigabit ethernet port, Realtek RTL8111E, Wake on LAN

### Modern
- None

### Security chip
- Trusted Platform Module (TPM 1.2-compliant)

### Keyboard and Mouse
- Preferred Pro USB Keyboard (USB connector), black, Lenovo logo

### Power supply
- 280 watts, autosensing, 85% PSU

### Machine
- Business black color; metal case
- 6.9" W X 17.4" D X 16.3" H
- 175mm W X 442mm D X 414mm H
- 27.5 lb (12.5 kg) in maximum configuration

### Bay
- Toolless cover removal, toolless adapter retention
- Toolless disk, optical drive removal
- Bay 1: 5.25", 1.6" high, access, std optical
- Bay 2: 5.25", 1.6" high, access, open
- Bay 3: 3.5", 1" high, access, opt reader*
- Bay 4: 3.5", 1" high, no access, std disk
- Bay 5: 3.5", 1" high, no access, opt disk*
- Bay 6: only available on models with HDD/SSD/reader installed

### Slot
- Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)
- Slot 2: half-length, full-height, PCIe 2.0 x1
- Slot 3: half-length, full-height, 32-bit PCI 2.3
- Slot 4: half-length, full-height, 32-bit PCI 2.3

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

### Preloaded operating system
- Windows 8 Pro 64-bit

### Ready to install applications
- (only some listed)
- Norton Internet Security (30 days of virus definitions)
- PC Device Stage
- Evernote
- Skype
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio

### Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for optional Kensington MicroSaver cable)
  - Cable lock
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement
  - Chassis intrusion switch on selected model(s)

### Preloaded applications
- (only some listed)
- ThinkVantage System Update
- View Management Utility
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Desktop Power Manager
- PC Device Stage
- Microsoft Office preloaded; purchase a product key to activate
- Norton Security
- Lenovo Support
- Lenovo Solution Center
- Lenovo Device Stage
- Evernote
- Skype
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio

### Software
- Lenovo System Update
- Lenovo Support Software
- Lenovo System Update
- Lenovo Solution Center
- Lenovo Device Stage
- Evernote
- Skype
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio

### Prepacked applications
- Microsoft Office preloaded; please go to TC-AQP sheet
- Windows 8 Pro 64-bit
- ENERGY STAR 5.2-compliant
- ULE Gold

### Chassis
- TOOLLESS disk, optical drive removal
- TOOLLESS cover removal, toolless adapter retention
- 27.5 lb (12.5 kg) in maximum configuration
- 175mm W X 442mm D X 414mm H
- Business black color; metal case

### Limited warranty
- 3-year limited warranty

---

See footnotes for important warranty information

US model(s) announced October 1, 2013

©Lenovo (ADR1T-4) October 2013
## ThinkCentre M78 Tower (10BN) - ES 5.2 (GMP)

### Table of Specifications

<table>
<thead>
<tr>
<th>Type-Model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk GB rpm</th>
<th>SATA optical</th>
<th>PCIe WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Chassis intrusion switch</th>
<th>PS/2 port</th>
<th>DP to DP Cable Global (G) MGP (P)</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10BN0005US</td>
<td>x5</td>
<td>A4-5300B</td>
<td>2GBx1</td>
<td>500G 7200</td>
<td>DVD</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>G P Win7 Pro64</td>
<td>10/01/13</td>
<td></td>
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<tr>
<td>10BN0006US</td>
<td>x5</td>
<td>A8-5500B</td>
<td>4GBx1</td>
<td>1TB 7200</td>
<td>DVD, RW</td>
<td>N105</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>G P Win7 Pro64 (DG)</td>
<td>10/01/13</td>
<td></td>
</tr>
<tr>
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<td>None</td>
<td>G P Win7 Pro64 (DG)</td>
<td>10/01/13</td>
<td></td>
</tr>
</tbody>
</table>

### Positioning
- Mainstream enterprise stability and manageability

### Processor
- **AMD APU A4-5300B** (dual-core, 3.4GHz, 1MB L2 cache), Turbo Core (up to 3.6GHz), AMD Radeon™ HD 7480D Graphics, DDR3 memory controller (up to 1600MHz)
- **AMD APU A6-5400B** (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD 7540D Graphics, DDR3 memory controller (up to 1866MHz)
- **AMD APU A8-5500B** (quad-core, 3.2GHz, 4MB L2 cache), Turbo Core (up to 3.7GHz), AMD Radeon HD 7560D Graphics, DDR3 memory controller (up to 1866MHz)

### Memory
- 32GB max, UDIMM, PC3-12800 1600MHz DDR3

### Graphics
- **AMD Radeon HD Graphics**, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent displays along with optional discrete graphics to support up to 4 independent monitors;
  - **Maximum resolution**: 1920x1200 (VGA) @60Hz; 2560x2048 (DisplayPort) @60Hz
  - **Some**: AMD Radeon HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts, Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz

### Disk
- *Some*: SATA 6.0Gb/s 7200 rpm

### Optical
- *Some*: DVD-ROM DL SATA 1.5Gb/s Drive

### SATA controller
- Serial ATA, 6.0Gb/s, integrated in chipset, RAID 0/1

### Onboard SATA eSATA port
- Two SATA cables (each 1-drop to device), four SATA 6.0Gb/s connectors on planar

### Chipset
- **AMD A75 Chipset**

### Front ports
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

### Rear ports
- Four USB 3.0, two USB 2.0, serial (9-pin), ethernet (RJ-45), VGA DB-15, DisplayPort, optional keyboard (PS/2), optional mouse (PS/2)

### Rear audio ports
- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

### PCIe WLAN
- **Some**: 11b/g/n wireless, Intel Centrino® Wireless-N 105, 1x1

### Internal connector
- Two USB 2.0 planar conn (1 used; one open for additional USB device)

### Audio
- High Definition (HD) Audio, Realtek® ALC662 codec

### Speaker
- Internal speaker for business audio

### IEEE 1394
- None

### Ethernet
- One gigabit ethernet port, Realtek RTL8111E, Wake on LAN®

### Modem
- None

### Security chip
- Trusted Platform Module (TPM 1.2-compliant)

### Keyboard
- Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

### Mouse
- Enhanced Optical USB Mouse, black, Lenovo logo

### Power supply
- 280 watts, autosensing, 85% PSU

### Machine
- Business black color; metal case
- 6.9" W X 17.4" D X 16.3" H
- 175mm W X 442mm D X 414mm H
- 27.5 lb (12.5 kg) in maximum configuration
- Toolless cover removal, toolless adapter retention
- Toolless disk, optical drive removal

### Bay
- Bay 1: 5.25", 1.6" high, access, std optical
- Bay 2: 5.25", 1.6" high, access, open
- Bay 3: 3.5", 1" high, access, opt reader*
- Bay 4: 3.5", 1" high, no access, std disk
- Bay 5: 3.5", 1" high, no access, opt disk*
- "bay only available on models with HDD/SSD/reader installed"

### Slot
- Slot 1: half-length, full-height, PCI Express 2.0 x16 (60w max)
- Slot 2: half-length, full-height, PCIe 2.0 x1
- Slot 3: half-length, full-height, 32-bit PCI 2.3
- Slot 4: half-length, full-height, 32-bit PCI 2.3

### Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for optional)
- Hard disk password
- Power-on password
- Administrator password
- Cable lock
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

### Preloaded operating system
- **Some**: Windows® 7 Professional 64
- **Some**: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- View Management Utility
- PC Device Stage
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded;
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro

### Security
- Machine Security Chip
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### EPEAT® Gold rating
- ENERGY STAR 5.2-compliant
- ULE Gold
- RoHS-compliant

### For compatible accessories, please go to TC-AQP sheet;
- Lenovo service upgrade options, please go to S-TC sheet

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See footnotes for important warranty information
US model(s) announced October 1, 2013
©Lenovo

(ADR1T-5) October 2013
Memory
2GB PC3-12800 DDR3 UDIMM 0A65728 ann 06/05/12
4GB PC3-12800 DDR3 UDIMM 0A65729 ann 06/05/12
8GB PC3-12800 DDR3 UDIMM 0A65730 ann 06/05/12
More information at www.lenovo.com/support/desktopmemorycompatibility

Optical
Lenovo® Super Multi-Burner SATA Drive 0A65618 ann 08/23/11

Storage and removable storage
500GB SATA 3.0Gb/s Disk (7200 rpm) 43R1990 ann 11/06/07
1TB SATA 3.0Gb/s Disk (7200 rpm) 45J7918 ann 08/19/08
USB 2.0 Portable 500GB Hard Disk 45K1690 ann 05/26/09
USB 3.0 Secure 750GB Hard Drive 0A65616 ann 11/29/11
USB 3.0 Secure 1TB Hard Drive 0A65621 ann 08/28/12
Slim USB Portable DVD Burner 0A33988 ann 06/14/11

Graphics
Small 5100/4865/2113/2114 support Low Profile:
NVIDIA NVS 510 2GB Graphics Card by Lenovo 67 0B47077 ann 01/29/13
Tower 2111/1766/1562/1565 support 75 watts max:
NVIDIA NVS 510 2GB Graphics Card by Lenovo 67 0B47077 ann 01/29/13
67 Simultaneously use the graphic card monitor ports along with the systems integrated monitor ports when Multi-Monitor Support is enabled in BIOS Setup.
More information at www.lenovo.com/support/graphiccards

Keyboard
Preferred Pro USB Keyboard 73P5220 ann 06/21/05
Enhanced Performance USB Keyboard 73P2620 ann 03/23/04
Ultralight Plus Wireless Keyboard and Mouse 0A34032 ann 04/05/11
ThinkPad® USB Keyboard with TrackPoint 55Y9003 ann 08/18/09
Lenovo USB Fingerprint Keyboard 73P4730 ann 02/22/05
Lenovo USB Smartcard Keyboard 51J0155 ann 03/24/09
60 Wireless via 2.4GHz technology using a micro-size USB receiver.
More information at www.lenovo.com/support/keyboards

Mouse
Lenovo Optical Mouse (USB) 06P4069 ann 05/21/03
Lenovo ScrollPoint® Mouse(USB, Optical) 31P7405 ann 08/27/02
ThinkPad Travel Mouse (USB, Optical) 31P7410 ann 06/04/02
Lenovo Laser Mouse (USB) 41U3074 ann 01/23/07
Lenovo Wireless Laser Mouse 0A36188 ann 12/20/11
ThinkPad USB Laser Mouse 57Y4635 ann 12/15/09
60 Compatible on selected Lenovo and ThinkVision monitors.
More information at www.lenovo.com/support/mice

Modem
USB 2.0 Lenovo Modem 43R1814 ann 02/26/08

Multimedia
ThinkPad In-Ear Headphones with mic 57Y4488 ann 01/07/10
Lenovo Mini Speakers M220 55Y2033 ann 01/07/10
Lenovo Speakers M0520 (black) 57Y6380 ann 02/08/11
Lenovo Speakers M0520 (red) 57Y6361 ann 02/08/11
Lenovo Headset P950 55Y2065
Lenovo Headset P950 (black) 57Y6605 ann 02/08/11
60 Has a 1.2 meter (3.9-foot) cable. Best when systems are in close proximity. Example: SFF placed on a desk.

Security
Kensington® MicroSaver® Cable Lock 73P2582 ann 12/29/03
Kensington Twin Head Cable Lock 45K1620 ann 09/30/08
Lenovo Security Cable Lock 57Y4303 ann 08/24/10
USB Gemplus GemPC Smart Card Reader 41N3040 ann 02/21/06
16 Attaching to any form factor not only secures the ThinkCentre to the work area, but it also prevents users from opening the chassis itself.

Monitors
ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D) 2448MB6 ann 09/13/11
ThinkVision L2251x Wide 22" (VGA, DP) 2578HB6 ann 10/20/09
ThinkVision LT2323p Wide 23" (VGA, DP, DVI-D) 3024HC1 ann 05/01/12
60 DisplayPort cable is not included; use optional DisplayPort to DisplayPort Monitor Cable (0A36537).
More information at www.lenovo.com/support/monitors

Monitor Accessories60
DisplayPort to Single-link DVI-D Cable 45J7915 ann 08/05/08
DisplayPort to VGA Monitor Cable 57Y4393 ann 08/04/09
DisplayPort to DisplayPort Monitor Cable 0A36537 ann 09/13/11
Lenovo USB Soundbar 0A36190 ann 05/01/12
Kensington MicroSaver Cable Lock 73P2582 ann 12/29/03
Kensington Twin Head Cable Lock 45K1620 ann 09/30/08
Lenovo Security Cable Lock 57Y4303 ann 08/24/10
ThinkCentre Extend Arm 57Y4352 ann 07/06/10
For more information on accessories: www.lenovo.com/accessories
Purchase Lenovo accessories www.lenovo.com/support/accessories
Product specifications on Lenovo Support www.lenovo.com/accessoriesguide
Option Compatibility Matrix (OCM) and accessory brochures www.lenovoquickpick.com
An Options Compatibility Configurator for Lenovo systems
## ThinkCentre M79 SFF Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency (Max/Base)</th>
<th>L2 Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>A4-6300B</td>
<td>2</td>
<td>3.9 / 3.7</td>
<td>1MB</td>
<td>DDR3-1600</td>
<td>HD 8730D</td>
</tr>
<tr>
<td>A6-6400B</td>
<td>2</td>
<td>4.1 / 3.9</td>
<td>1MB</td>
<td>DDR3-1866</td>
<td>HD 8470D</td>
</tr>
<tr>
<td>A8-6500B</td>
<td>4</td>
<td>4.1 / 3.5</td>
<td>4MB</td>
<td>DDR3-2133</td>
<td>HD 8570D</td>
</tr>
<tr>
<td>A8 PRO-7400B</td>
<td>2</td>
<td>3.9 / 3.5</td>
<td>1MB</td>
<td>DDR3-1866</td>
<td>Radeon RS Series</td>
</tr>
<tr>
<td>A8 PRO-7800B</td>
<td>4</td>
<td>3.8 / 3.1</td>
<td>4MB</td>
<td>DDR3-2133</td>
<td>Radeon R7 Series</td>
</tr>
</tbody>
</table>

### Memory

- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

### Disk

- SATA 6.Gb/s, 3.5" Wide, 7200 rpm
- Some: SATA 6.Gb/s, 2.5" wide
- Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.Gb/s, 3.5" wide
- Some: Solid State Drive (SSD) at SATA 6.Gb/s, 2.5" Wide
- Some: DVD-ROM SATA 1.5Gb/s Drive
- Some: Multi Burner USB DVD±RW SATA 1.5Gb/s Drive

### Optical

- Some: AMD Radeon HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one V1-D (includes DVI-to-VGA dongle), one DisplayPort, 25 watts; Max resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @85Hz

### Chipset

- AMD A78 Chipset

### DP cable

- Optional DisplayPort to DVI-D monitor cable

### Chipset

- AMD A78 Chipset

### Front ports

- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

### Rear ports

- Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), Ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

### Rear audio ports

- Line-in (stereo, 3.5mm), Line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
- Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

### Audio support

- High Definition (HD) Audio, Realtek ALC662 / internal speakers

### WLAN

- Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8188EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
- Some: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHZ), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

### Ethernet Modem

- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Bluetooth

- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Security features

- Enhanced Manageability with DASH 1.1
  - Trusted Platform Module, TCG 1.2-compliant
  - Padlock (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
  - Cable lock to physically lock (some)
  - Individual USB port disablement
  - Optional Chassis intrusion switch

### Keyboard

- Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo

### Mouse

- Some: Lenovo USB Fingerprint Keyboard (USB connector)
- Some: Ultralight Plus Wireless Mouse (2.4GHz via USB receiver), black
- Some: Enhanced Optical USB Mouse, black, Lenovo logo
- Some: Ultralight Plus Wireless Mouse (2.4GHz via USB receiver), black

### Mechanical

- Business black color; metal case, 11L
- 13.2" W x 15.0" D x 3.9" H
- 335mm W x 832mm D x 101mm H
- 1GB (3.5") in maximum configuration
- Bay 1: N/A, N/A, internal, opt SSD
- Bay 2: 5.25", 1.6" high, external, std disk
- Bay 3: N/A, N/A, external, opt reader
- Bay 4: 4.5", 1" high, internal, std disk
- *Bay only available on models with HDD/SSD/reader installed
- Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)
- Slot 2: Low Profile, PCIe 2.0 x1
- Slot 3: Low Profile, PCIe 2.0 x1
- Slot 4: Low Profile, 32-bit PCI 2.3

### Floor Stand

- Optional system floor stand for vertical orientation

### Power supply

- Some: 180 watts, autosensing, 100-240V (50-60Hz)
- Some: 240 watts, autosensing, 100-240V (50-60Hz)
- Some: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

### Limited warranty

- Some: 3-years, limited onsite service / service upgrades available
- Some: 3-years, limited onsite service, IWS (International Warranty Service)

### Preload

- Windows 7 Professional 64-bit
- Windows 8.1 64-bit

### Preloaded applications

- Some: Ready to install applications (only some listed)
- Some: Rescue and Recovery™
- Some: Password Manager
- Some: Preloaded applications (only some listed)
- Some: ThinkVantage Product Recovery
- Some: ThinkVantage System Update
- Some: ThinkVantage Communication Utility
- Some: ThinkVantage Device Experience
- Some: Desktop Power Manager
- Some: View Management Utility
- Some: Lenovo Solution Center
- Some: Windows 7 Professional 32-bit
- Some: Windows 7 Professional 64-bit
- Some: Windows 8.1 Pro 64-bit
- Some: Skype™
- Some: Microsoft Office preloaded; purchase a product key to activate
- Some: Cyberlink Power2Go (DVD±RW)
- Some: Cyberlink PowerProducer (DVD±RW)
- Some: Cyberlink PowerProducer (DVD±RW)
- Some: Cyberlink PowerProducer (DVD±RW)
- Some: Cyberlink PowerProducer (DVD±RW)
- Some: Cyberlink PowerProducer (DVD±RW)
- Some: Evernote™
- Some: Nitro Pro
- Some: AccuWeather
- Some: Norton™ Studio
- Some: Pokki
- Some: HighTail

### Environment

- ENERGY STAR® 6.0 (Need 85% PSU and Windows OS)
- EPEAT™ Gold rating (Need 85% PSU and Windows OS)
- GREENGUARD™; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

### Accessories

- For compatible accessories, please go to TC-AQP sheet
## ThinkCentre M79 Tower Platform Specifications

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<tr>
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<td>3.8 / 3.1</td>
<td>4MB</td>
<td>DDR3-2133</td>
<td>Radeon R7 Series</td>
</tr>
</tbody>
</table>

### Memory

- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

### Disk

- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
- Some: Solid State Drive (SSD), SATA 6.0Gb/s, 2.5" Wide
- Some: DVD-ROM SATA 1.5Gb/s Drive
- Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

### Optical

- Optional FireWire PCIe adapter, 1394a-2000, 400Mbps, two 6-pin ports on rear

### Chipset

- AMD A78 FCH
- Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- Rear ports: Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports
- Audio support: High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5 Watt x 2)

### WLAN

- Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RT8873BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8188EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

### Bluetooth

- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Mechanical

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration
- Bay 1: 5.25" high, access, std optical
- Bay 2: N/A, N/A, access, opt reader
- Bay 3: 3.5", 1" high, no access, std disk
- Bay 4: 3.5", 1" high, no access, opt disk
- Maximum resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz; 2048x1536 (VGA)@85Hz

### Security features

- Enhanced Manageability with DASH 1.1
- Trusted Platform Module, TCG 1.2-compliant
-_padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Individual USB port disablement
- Optional Chassis intrusion switch

### Accessories

For compatible accessories, please go to TC-AQP sheet
### ThinkCentre M79 SFF (10CV) - TopSeller

**Product Specifications Reference (PSREF)**

**See footnotes for more detailed information** © Lenovo

**Ann Date (mm/yy)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Media reader</th>
<th>2nd Serial Parallel/PS/2 Ports</th>
<th>Optional 2 rear USB</th>
<th>IEEE 1394</th>
<th>Chassis intrusion switch</th>
<th>Cable lock</th>
<th>Floor Stand</th>
<th>Key-board/ Mouse</th>
<th>Power Supply</th>
<th>Preload</th>
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*For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet*
### ThinkCentre M79 Tower (10CN) - TopSeller

#### Product Specifications Reference (PSREF)

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<th>Memory</th>
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<th>Optical</th>
<th>WLAN</th>
<th>Media reader</th>
<th>2nd Serial / Parallel</th>
<th>PS/2 Ports</th>
<th>2nd DP Port</th>
<th>Optional 2 rear USB</th>
<th>IEEE 1394</th>
<th>Chassis Intrusion switch</th>
<th>Cable lock</th>
<th>Floor Stand</th>
<th>Key-board/ Mouse</th>
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*For detailed platform specifications, please see [ThinkCentre M79 Tower Platform Specifications sheet](#).

### Processor

<table>
<thead>
<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency (Max/Base)</th>
<th>L2 Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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</table>

### Memory

- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets
- SODIMM, PC3-10600 1333MHz DDR3, two 204-pin SMD sockets

### Optical

- SATA 6.0Gb/s
- 3.5" Wide, 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
- Some: DVD-ROM SATA 1.5Gb/s Drive
- Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

### Onboard SATA Media reader

- SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support
- Optional 7-in-1 single slot media card reader

### Graphics

- AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
- AMD Radeon HD 8570, DirectX 11, one VGA, one HDMI, 40W,
- AMD Radeon HD 8790D, DirectX 11, one VGA, one DisplayPort, 30W,
- AMD Radeon™ HD 7450, DirectX 11, one DVI-I one DisplayPort, 25W;
- Optional DisplayPort to DVI-D monitor cable
- NVIDIA® GeForce® GT 620, DirectX 11, one VGA, one DisplayPort, 30W;
- AMD Radeon™ HD 7450, DirectX 11, one DVI-I one DisplayPort, 25W;
- Optional DisplayPort to DVI-D monitor cable

### Chipset

- AMD A78 FCH
- Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm), Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
- Rear ports: Up to six USB ports (2x USB 3.0 + 2x USB 2.0, 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports
- Rear audio ports: IEEE 1394

### Audio

- High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)
- Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- Some: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2
- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- Ethernet: One gigabit ethernet port, Realtek 8111EPV, Wake on LAN

### Environmental Protection

- ENERGY STAR® 6.0 (Need 85% PSU and Windows OS); EPEAT® Gold rating (Need 85% PSU and Windows OS); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

### Security

- Kensington MicroSaver® cable
- Cable lock to physically lock both keyboard and mouse (optional)
- Optional Chassis intrusion switch

### Manageability

- Enhanced Manageability with DASH 1.1
- Trusted Platform Module, TCG 1.2-compliant
- Power-on, Admin, Hard Disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

### Computer Security

- Business black color; metal case, 20L
- 6.3" W X 16.6" D X 15.3" H (with handle)
- 160mm W X 422mm D X 388mm H
- 20.7 lb (9.4 kg) in maximum configuration
- Bay: 5.25" x 1.35" x 2.5 MCR Bay x1
- Slot (half-length): one PCIe 3.0 x16 (60W max), two PCIe 2.0 x1, one PCI 2.3

### Power supply

- 180W: 180 watts, autosensing, 100-240V (50-60Hz)
- 280W: 280 watts, autosensing, 100-240V (50-60Hz)
- 280W ES: 280 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

### Limited warranty

- Some: 3-years, limited onsite service / service upgrades available
- Some: 3-years, limited onsite service, IWS (International Warranty Service) / service upgrades available

### For Lenovo service upgrade options, please go to S-TC sheet

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Media reader</th>
<th>2nd Serial / Parallel</th>
<th>PS/2 Ports</th>
<th>2nd DP Port</th>
<th>Optional 2 rear USB</th>
<th>IEEE 1394</th>
<th>Chassis Intrusion switch</th>
<th>Cable lock</th>
<th>Floor Stand</th>
<th>Key-board/ Mouse</th>
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<th>Preload</th>
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<th>Global</th>
<th>Ann Date (mm/yy)</th>
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Processor: AMD A4, A6, A8, or A10 series APUs

Memory: 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

Disk: Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Optical: Some: DVD-ROM SATA 1.5Gb/s Drive

Onboard SATA: Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

Graphics: AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP supports, up to three independent displays, works along with optional discrete graphics to support up to five independent displays;

Some: AMD Radeon HD 8570D, DirectX 11, one VGA, one NVIDIA®/GeForce GT 620, one VGA, one DisplayPort, 30W;

Some: AMD Radeon™ HD 7450, DirectX 11, one DVI-I one DisplayPort, 25W;

Optical/DisplayPort to DVI-D monitor cable

Chipset: AMD A78 Chipset

Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

Rear ports: Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

Audio support: High Definition (HD) Audio, Realtek ALC662 / internal speakers (1 Watt x 2)

WLAN: Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1

Bluetooth™: Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet: None

Modem: None

• For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet

See footnotes for more detailed information
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### ThinkCentre M79 SFF (10CW)

#### Processor
- **AMD A4, A6, A8, or A10 series APUs**
  - **APU**
    - A4-6300B
    - A6-6400B
    - A8-6500B
    - A6 PRO-7400B
  - **Cores**: 2
  - **Frequency**: 3.9-3.3 GHz
  - **L2 Cache**: 1MB
  - **Memory**: DDR3-1600
  - **Optical**: None
  - **WLAN**: None

#### Memory
- **32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets**

#### Disk
- **Some**: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- **Some**: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5"
- **Some**: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
- **Some**: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
- **Some**: DVD-ROM SATA 1.5Gb/s Drive
- **Some**: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

#### Optical
- **Onboard SATA Media reader**: SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

#### Graphics
- **AMD Radeon™ Graphics** in processor, uses main memory, one VGA, one DisplayPort™, one optional DP supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays;
- **Some**: AMD Radeon HD 8570, DirectX 11, one VGA, one HDMI, 40W.
- **Some**: NVIDIA® GeForce® GT 620, DirectX 11, one VGA, one DisplayPort, 30W.
- **Some**: AMD Radeon™ HD 7450, DirectX 11, one DVI-I one DisplayPort, 25W.
- **Optional** DisplayPort to DVI-D monitor cable

#### Chipset
- **AMD A78 Chipset**

#### Front ports
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

#### Rear ports
- Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

#### Rear audio ports
- IEEE 1394
- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

#### Audio support
- High Definition (HD) Audio, Realtek ALC662 / internal speakers (1watt x 2)

#### WLAN
- **Some**: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- **Some**: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
- **Some**: 11ac/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

#### Bluetooth™ Ethernet Modem
- **Some**: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- One gigabit ethernet port, Realtek 8111EPV, Wake on LAN

---

### Additional Specifications

- **For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet**

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*For Lenovo service upgrade options, please go to S-TC sheet*
See footnotes for more detailed information

- For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet
<table>
<thead>
<tr>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Media reader</th>
<th>2nd Serial Parallel/PS/2 Ports</th>
<th>2nd DP Port</th>
<th>Optional 2 rear USB</th>
<th>IEEE 1394</th>
<th>Chassis intrusion switch</th>
<th>Floor lock</th>
<th>Keyboard/Mouse</th>
<th>Power Supply</th>
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- For detailed platform specifications, please see [ThinkCentre M79 Tower Platform Specifications sheet](#).

### Processor

<table>
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<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency (Max/Base)</th>
<th>L2 Cache</th>
<th>Memory Types</th>
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<td>Radeon R7 Series</td>
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</table>

### Memory

- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

### Disk

- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 2.5" wide
- Some: 1TB (7200 rpm) hybrid hard disk / with 8GB flash, SATA 6.0Gb/s, 3.5" wide
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide
- Some: DVD-ROM SATA 1.5Gb/s Drive
- Some: Super Multi-Burner DVD±RW SATA 1.5Gb/s Drive

### Optical

### Onboard SATA Media reader

- Optional 7-in-1 single slot media card reader

### Graphics

- AMD Radeon™ Graphics in processor, uses main memory, one VGA, one DisplayPort™, one optional DP, supports up to three independent displays, works along with optional discrete graphics to support up to five independent displays:
  - AMD Radeon HD 8570, DirectX 11, one VGA, one HDMI, 40W:
  - NVIDIA® GeForce® GT 620, DirectX 11, one VGA, one DisplayPort, 30W:
  - AMD Radeon™ HD 7450, DirectX 11, one DVI-I one DisplayPort, 25W:
  - Optional DisplayPort to DVI-D monitor cable

### Chipset

- AMD A78 FCH

### Front ports

- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- Up to six USB ports (2x USB 3.0 + 2x USB 2.0 + 2x optional USB 2.0), serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), etc.
- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)

### Rear audio ports

- IEEE 1394

### Audio support

- High Definition (HD) Audio, Realtek ALC662 / internal speakers (1.5watt x 2)

### WLAN

- Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- Some: 11a/b/g/n wireless, Broadcom BCM4352, 2.4/5GHz, Wi-Fi + BT 4.0, 2x2

### Bluetooth

- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Ethernet Modem

- One gigabit ethernet port, Realtek 8111EPV, Wake on LAN™

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See footnotes for more detailed information
ThinkCentre M83 Tiny with optional floor stand, wireless Keyboard/mouse, and monitor

ThinkCentre M83 Tiny with optional floor stand

ThinkCentre M83 Tiny with optional VESA mount kit

ThinkCentre M83 Tiny with optional optical box

ThinkCentre M83 Tiny with optional I/O box

ThinkCentre M83 Tiny
## ThinkCentre M83 Tiny Platform Specifications

### Product Specifications Reference (PSREF)

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Max/Base)</th>
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</table>

#### Memory

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets

* System automatically clocks down for processors with 1333MHz DDR3 memory controller

#### Disk

- **Some:** hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System™
- **Some:** 500GB (5400 rpm) Solid State Hybrid Drive (SSHD) / with 8GB MLN NAND flash memory, 2.5" wide
- **Some:** Solid State Drive (SSD) / 2.5" Wide
- **Some:** external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
- **Some:** external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB SATA 6.0Gb/s controller, one connector on planar

#### Optical

#### Onboard SATA Media reader

None

#### Graphics

Intel HD Graphics or Intel HD Graphics 4400/4600, in processor, uses main memory.

#### DP cable

Optional DisplayPort to DVI-D monitor cable

#### Chipset

Intel Q85 Chipset

#### Front ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

#### Rear ports

Two USB 3.0, one USB 2.0 (optional external optical box or external I/O box occupies specific USB 2.0 on some models), ethernet (RJ-45), VGA, DisplayPort, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on some models)

#### I/O box

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 2.0 port

#### Audio support

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

#### WLAN

- **Some:** 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
- **Some:** 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8821EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
- **Some:** 11ac/a/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
- **Some:** 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
- **Some:** 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo 4.0 adapter, 2x2

#### Bluetooth

- **Some:** Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

#### Ethernet Modem

One gigabit ethernet port, Intel i217-LM (Clarkville), Wake on LAN®

#### Manageability

Intel Standard Manageability

#### Security chip

Trusted Platform Module, TCG 1.2-compliant

#### Security features

- **Security slot (in rear for optional**: Kensington® MicroSaver® cable)
- **Smart USB protection, allows keyboard/ mouse only, blocks all storage devices**
- **Power-on password**
- **Administrator password**
- **Hard disk password**
- **Boot sequence control**
- **Boots without keyboard and mouse**
- **Individual USB port disablement**
- **Optional Chassis intrusion switch**

#### Environment

- **ENERGY STAR® 6.0, EPEAT® Gold rating (U.S.):**
  - GREENGUARD®
  - RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible

#### Accessories

For compatible accessories, please go to TC-AQP sheet
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Graphics</th>
<th>Memory</th>
<th>Storage</th>
<th>External / I/O box</th>
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<th>DP Cable</th>
<th>Optional port</th>
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</table>

Some:
- One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN
- Intel Pentium, Core i3 / i5 / i7 Processor
- Optional 2nd DisplayPort on some models, supports up to 3 independent displays;
- Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1080 (HDMI) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)
- Optional system floor stand for vertical orientation

Processor
- Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor

Security chip
- Trusted Platform Module, TCG 1.2-compliant

Security features
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Smart USB protection, allows keyboard/mouse only, blocks all storage devices
- Power on password
- Administrator password

Keyboard
- USB: Preferred Pro USB Keyboard (USB connector), Lenovo logo
- Finger: Lenovo USB Fingerprint Keyboard (USB connector)
- 2.4G: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
- USB: Enhanced Optical USB Mouse, black, Lenovo logo
- 2.4G: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

Mouse
- USB: Enhanced Optical USB Mouse, black, Lenovo logo

Mechanical
- Tiny (1L), business black color; metal case

Power supply
- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

Limited warranty
- Some: 3-years, limited onsite service / service upgrades available
- Some: 3-years, limited onsite service, IWS (International Warranty Service) / service upgrades available

For Lenovo service upgrade options, please go to S-TC sheet

Preload
- Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 7 Professional 64
- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit

Environment
- ENERGY STAR® 6.0; EPEAT® Gold rating (U.S.)
- GREENGUARD®; RoHS-compliant; ERP Lot 3; UL Environment Gold; TUV: Cisco EnergyWise compatible

See footnotes for more detailed information © Lenovo (MSK1N-1) October 2014
## ThinkCentre M83 Tiny (10E8)

### Processor and Memory

<table>
<thead>
<tr>
<th>Model/Option</th>
<th>Processor</th>
<th>Graphics</th>
<th>Memory</th>
<th>Storage</th>
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### Memory

- 16GB max DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
- System automatically clocks down for processors with 1333MHz DDR3 memory

### Disk

- Some: hard disk, 2.5" Wide, 5400 or 7200 rpm, Active Protection System
- Some: 500GB (5400 rpm) SSDL/8 GB flash memory, 2.5" wide
- Some: Solid State Drive (SSD) / 2.5" Wide
- Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
- Some: external optical box with slim DVD-RW/FW, 12.7mm high, tray-in, via USB
- Some: SATA 6.0Gb/s controller, one connector on planar

### Optical

- Optional front DVD±R/RW/±RW drive, supports up to 4 independent displays; Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1080 (HDMI) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)

### Graphics

- Intel HD Graphics or Intel HD Graphics 4400/4600, in processor, uses main memory, DirectX 11, one VGA, one DisplayPort, one optional or one optional 2nd DisplayPort on some models, supports up to 3 independent displays
- Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1080 (HDMI) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)

### Chipset

- Intel Q85 Chipset

### Power and Cooling

- 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)
- Limited warranty: Some: 3-years, limited onsite service / service upgrades available
- Some: 3-years, limited onsite service, IWS (International Warranty Service) / service upgrades available
- For Lenovo service upgrade options, please go to T-SCT sheet

### Warranty

- Power supply: Optional VESA mount bracket kit, supports VESA 75mm and 100mm VESA mount
- Power supply: Optional system floor stand for vertical orientation
- Power supply: 65 watts AC/DC adapter, autosensing, 88% PSU (not included for TIO models)

### Security Features

- Security chain (in rear for optional
- Security slot (in rear for optional
- Security feature (in rear for optional
- Hard disk password
- Smart USB protection, allows keyboard/ mouse only, blocks all storage devices
- Power-on password
- Administrator password
- Optional Chassis intrusion switch

### Other

- Mechanical: Tiny (1L), business black color; metal case
- Memory: 1GB max DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
- System automatically clocks down for processors with 1333MHz DDR3 memory
- Mouse: USB: Enhanced Optical USB Mouse, black, Lenovo logo
- 2.4GHz: Ultralsim Plus Wireless Keyboard (2.4GHz via USB receiver), black
- Audio: High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)
- WLAN: Some: 11b/g/n, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- Some: 11b/g/n, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
- Some: 11ac/b/g/n, Broadcom BCM4352, dual band, Wi-Fi + BT 4.0 combo, 2x2
- Some: 11ac/a/b/g/n, Intel Centrino Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2
- Some: 11ac/a/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo, 2x2
- Bluetooth: Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- Ethernet: One gigabit ethernet port, Intel i217-LM (Clarksville), Wake on LAN

See footnotes for more detailed information © Lenovo (MSK1N-2) December 2014
Lenovo ThinkCentre M83 Small Pro
with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M83 Small Pro
with optional dual graphic cards
* Cable lock only available on some special bid models

Lenovo ThinkCentre M83 Small Pro (inside view)

Optional 2.5" bay on
Lenovo ThinkCentre M83 Small Pro
* Come with optional 2.5" 2nd HDD

Lenovo ThinkCentre M83 Mini Tower
with optional WLAN and graphic card

Lenovo ThinkCentre M83 Mini Tower
with Lenovo ThinkVision Monitor

ThinkCentre M83 Small Pro, Mini Tower
### ThinkCentre M83 SFF Pro (10AM) - TopSeller

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#### Preloaded operating system

- Windows 7 Professional 64
- preinstalled Windows 8 Pro 64-bit

#### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

#### Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- (30 days of virus definitions)

#### Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock slot in rear for optional Kensington® MicroSaver® cable
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

#### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

**See footnotes for important warranty information**

**US model(s) announced July 30, 2013 or August 20, 2013**

©Lenovo

(MSK1S-3) September 2013
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**Positioning Processor**

Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics 1333MHz DDR3 memory controller

Intel Core™ i3-4130 Processor (2 cores / 2 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller

Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Intel Core i5-4670 Processor (4 cores / 4 threads, 3.8GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation Memory**

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**

Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors;

Max resolution: 2560x1600 (DP)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

Some: AMD Radeon™ HD 7450, DirectX 11, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;

Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz

**Disk**

Some: SATA 6.0Gb/s, 7200 rpm, 2.5" wide

Some: SATA 6.0Gb/s, 3.5" wide

Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide

Super Multi-Burner DL DVDs+RW SATA 1.5Gb/s Drive

SATA cables match SATA devices (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA controller (sata 6.0Gb/s)

**Onboard SATA**

Serial ATA, SATA 6.0Gb/s, integrated in chipset

**SATA controller**

**Memory**

32GB max

**Keyboard**

Preferred Pro USB Keyboard (USB connector), black, Lenovo™ logo

**Mouse**

Enhanced Optical USB Mouse, black, Lenovo logo

**Floor Stand**

Optional system floor stand for vertical orientation

**Power supply**

240 watts, autoseizing

**Machine**

SFF Pro (12.5L), business black color; metal case

(WxDxH) 13.31" X 14.76" X 4.02"; 338mm X 375mm X 102mm

17.20 lb (7.8 kg) in maximum configuration

Toolless cover removal, adapter retention

Toolless disk and optical drive removal

**Bay**

Bay 1: 5.25", 1.8" high, external, std optical

Bay 2: 3.5", 1" high, internal, std disk

Bay 3: 2.5", N/A, internal, or come with opt 2.5" 2nd disk

Bay 4: 3.5", 0.5" high, internal, opt reader

**Slot**

Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)

Slot 2: Low Profile, PCIe 2.0 x1

Slot 3: Low Profile, PCIe 2.0 x16 (4x elec, 40w max)

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded;
  - purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
  - One lock to secure both cover and entire system to fixed object:
    - Padlock loop (in rear for opt padlock)
    - Security slot (in rear for optional Kensington® MicroSaver® cable)
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Serial port I/O control
  - Individual USB port disablement
  - Chassis intrusion switch on selected model(s)

- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD® certified RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AOP sheet; For Lenovo service upgrade options, please go to S-TC sheet
## ThinkCentre M83 Mini Tower (10AL) - TopSeller

**Product Specifications Reference (PSREF)**

### Graphics
- Intel HD Graphics 4600
- NVIDIA GeForce GT 620
- AMD Radeon HD 8740D

#### Memory
- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

#### Processor
- Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache)
- Intel Core i7-4770K Processor (4 cores / 4 threads, 3.5GHz, 8MB cache)

### Audio
- High Definition (HD) Audio, Realtek ALC662 codec

### Rear ports
- Two USB 3.0, four USB 2.0, serial (9-pin), optional parallel (25-pin)

### Microphone
- Microphone (stereo, 3.5mm)

### Bluetooth
- High Definition (HD) Audio

### Onboard SATA
- SATA 6.0Gb/s, integrated in chipset

### Optical Drive
- Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

### IDE connectors
- One eSATA connector (SATA 6.0Gb/s)

### Main board
- Intel Q85 Express Chipset

### Motherboard
- Toolless disk, optical drive removal
- Toolless cover removal, adapter retention
- Security chip (TPM1.2-compliant)

### Preloaded operating system
- Windows 7 Professional 64

### Security
- Security chip
- One lock to secure both cover and entire system to fixed object

### Preloaded applications
- ThinkVantage Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Intel Management Engine Plus
- Norton™ Internet Security
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

### Processor
- Intel Core i7-4770 Processor
- Intel Core i5-4670 Processor
- Intel Core i3-4170 Processor

### System dimensions
- 24.69 lb (11.20 kg) in maximum configuration
- 6.89" X 17.41" X 16.32"; (WxDxH) 175mm X 442.3mm X 414.5mm
- Mini Tower (25L), business black color, metal case

### Machine
- **Mini Tower (25L), business black color, metal case**
  - (WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm
  - 24.69 lb (11.20 kg) in maximum configuration
  - Toolless case removal, adapter retention
  - Toolless disk, optical drive removal

### Thermal management
- **Mini Tower (25L), business black color, metal case**
  - (WxDxH) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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**See footnotes for important warranty information**

©Lenovo

US model(s) announced July 30, 2013 or August 20, 2013

(MSK1T-4) August 2013
## ThinkCentre M83 Mini Tower (10AL) - TopSeller - II

### Product Specifications Reference (PSREF)

<table>
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<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATa optical</th>
<th>PCIe X16</th>
<th>Media reader</th>
<th>Graphics</th>
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<th>2nd serial port</th>
<th>Parallel port</th>
<th>Chassis intrusion switch</th>
<th>ENERGY STAR 6.0</th>
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</table>

### Preloaded operating system

Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)
- Rescue and Recovery™
- Internet Security

### Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- Lenovo System Update
- ThinkVantage Communication Utility
- ThinkVantage System Update
- Norton™ Internet Security
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD±RW, DVD)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

### Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### For compatible accessories, please go to TC-AQP sheet:
- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD® certified RoHS-compliant

**See footnotes for important warranty information**

**US model(s) announced February 4, 2014 or February 25, 2014**

©Lenovo (MSK1T-6) February 2014
## ThinkCentre M83 Mini Tower (10AL) - TopSeller - III

**Product Specifications Reference (PSREF)**

### Positioning
- Mainstream enterprise stability and manageability

### Processor
- **Intel® Pentium® G3240 Processor**: (2 cores / 2 threads), 3.1GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- **Intel Core™ i3-4150 Processor**: (2 cores / 4 threads), 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- **Intel Core i5-4590 Processor**: (4 cores / 4 threads), 3.3GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Intel Core i7-4790 Processor**: (4 cores / 8 threads), 3.6GHz, 8MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Graphics
- **Intel HD Graphics 4600** in processor, uses main memory, DirectX 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors;

### Disk
- **Some**: SATA 6.0Gb/s 7200 rpm, 3.5" wide
- **Some**: Solid State Drive (SSD), SATA 6.0Gb/s, 2.5" wide

### Optical
- Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

### SATA controller
- **Serial ATA, SATA 6.0Gb/s, integrated in chipset**
- **Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)**

### Chipset
- **Intel G45 Express Chipset**

### Front ports
- **Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)**
- **Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models**

### Audio
- **High Definition (HD) Audio, Realtek® ALC662 codec**

### Power supply
- **280 watts, autosensing**

### Machine
- **Mini Tower (25L), business black color, metal case**
- **(WXxHxD) 6.89" x 17.41" x 16.32"; 175mm X 442.3mm X 414.5mm**
- **24.69 lb (11.20 kg) in maximum configuration**
- **Toolless cover removal, adapter retention**
- **Toolless disk, optical drive removal**
- **Toolless disk, optical drive removal**

### Bay
- **Bay 1: 5.25"**, 1/8" high, access, optical
- **Bay 2: 5.25"**, 1/8" high, access, optical
- **Bay 3: 5.25"**, 1/8" high, access, optical
- **Bay 4: 3.5"**, 1/8" high, no access, standard
- **Bay 5: 3.5"**, 1/8" high, no access, standard

### Slot
- **Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max)**
- **Slot 2: half-length, full-height, PCIe 2.0 x1 (x4 elec, 75w max)**
- **Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)**

### Limited Warranty
- **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
<table>
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<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATA optical</th>
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</table>

### Processor
- Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)
- Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i5-4570 Processor (4 cores / 4 threads, 3.6GHz, 6MB cache)
- Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache)
- Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Graphics
- Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors;
- Maximum resolution: 2560x1600 (DisplayPort) © 60Hz;

### Memory
- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets
- 2 cores / 4 threads, 3.4GHz, 3MB cache

### Disk
- SATA 6.0Gb/s 7200 rpm, 3.5" wide
- Some: 1TB (7200 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 3.5" wide
- Super Multi-Burner DL DVDs/RW SATA 1.5Gb/s Drive

### Optical controller
- Serial ATA, SATA 6.0Gb/s, integrated in chipset

### Onboard SATA
- Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)

### eSATA port
- None

### Media reader
- 29-in-1 media reader, internal USB 2.0

### Chipset
- Intel Q85 Express Chipset
- Intel HD Graphics 4600, Directx 11, 3D Hardware Acceleration
- Intel® HD Graphics 4400, 1600MHz DDR3 memory controller

### Preloaded operating system
- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Messenger Center Plus
- Norton™ Internet Security
- 30 days of virus definitions
- Adobe Reader®
- Skype
- Microsoft Office preloaded;
- purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink PowerGo (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro

### Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
### ThinkCentre M83 SFF Pro (10AH) - ES 6.0

#### Product Specifications Reference (PSREF)

| Type-model | Slab | x | Pro- | cessor | Memory | SATAV | SATAPA | Optional | 2.5" Bay | PCIe | LAN | Media | reader | Graphics | Additional | 2nd | Chassis | Front | Intrusion | Floor | Stand | Internal | SPEAKERS | ENERGY | STAR | Preload | Ann date |
|------------|-----|---|------|--------|--------|-------|--------|----------|----------|------|-----|-------|--------|----------|-----------|-------|---------|--------|----------|-------|------|---------|---------|--------|--------|-------|
| 10AH000JUS | 3x4 | i5-4570 | 4GBx1 | 500G | 7200 | DVD-RW | Bay 2.5" | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |
| 10AH0042US | 3x4 | i3-4150 | 4GBx1 | 500G | 7200 | DVD-RW | Bay 2.5" | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |
| 10AH006EUS | 3x4 | i7-4790 | 8GBx1 | 256G SSD | DVD-RW | Bay 2.5" | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |
| 10AH006DUS | 3x4 | i3-4150 | 8GBx1 | 256G SSD | DVD-RW | Bay 2.5" | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |
| 10AH006CUS | 3x4 | i3-4150 | 4GBx1 | 500G | 7200 | DVD-RW | Bay 2.5" | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |
| 10AH006KUS | 3x4 | i7-4790 | 8GBx1 | 1TB | 7200 | DVD-RW | Bay 2.5" | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |
| 10AH006JUS | 3x4 | i7-4790 | 8GBx1 | 1TB | 7200 | DVD-RW | Bay 2.5" | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None | None |

**Positioning Processor**

Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller

**Intel Core i5-4570 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache)**

Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller, Intel Core i5-4570 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),

Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Intel Core i7-4790 Processor (4 cores / 8 threads, 3.6GHz, 8MB cache)**

Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller Processor in LGA1150 socket

**Implementation Memory**

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**

Intel HD Graphics 4600 in processor, uses main memory. DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors;

Max resolution: 2560x1600 (DP) @ 60Hz; 1920x1200 (VGA) @ 60Hz (Reduced Blanking)

AMD Radeon HD 8770, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x, 8x, 4x, 1x), one VGA, one AMD Radeon HD 8770, DirectX 11, 3D Hardware Acceleration, 2GB, PCI Express 3.0 x16 adapter (8x, 8x, 4x, 1x), one VGA

NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, 30 watts;

NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, 30 watts;

Max resolution: 2560x1600 (DisplayPort) @ 60Hz; 2048x1536 (VGA) @ 85Hz

**Preloaded operating system**

Some: Windows® 7 Professional 64

Some: Windows 7 Professional 64

preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications (only some listed)**

- Rescue and Recovery™
- Password Manager

**Preloaded applications (only some listed)**

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Office
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security

(30 days of virus definitions)

- Adobe® Reader™
- Skype™

- Microsoft Office preloaded;

- purchase a product key to activate

- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink PowerGo (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

**Security**

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object

- -Padlock loop (in rear for opt padlock)
- -Security slot (in rear for optional Kensington® MicroSaver® cable)

- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- None intrusion switch on selected model(s)

- EPEAT™ Gold rating
- ENERGY STAR® 6.0-compliant
- ULE Gold
- PCgreenWise compatible
- GREENGUARD® certified
- RoHS-compliant

- Supports ThinkVantage Technologies

- For compatible accessories, please go to TC-AQP sheet;

- For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
ThinkCentre M83 SFF Pro (10AH) - ES 6.0 (GMP)

Preloaded operating system

Some: Windows 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
(30 days of virus definitions)
- Adobe® Reader™
- Skype™
- Microsoft Office preloaded;
- purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD±RW)
- Cyberlink PowerDVD (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)
- Supports ThinkVantage Technologies
- For compatible accessories, please go to TC-AQP sheet;
  - For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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(MSK1S-2) July 2014
## ThinkCentre M83 Mini Tower (10AK)

### Type-model

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
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### Preloaded operating system

- **Some**: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- **Some**: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Preloaded applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object: -Padlock loop (in rear for opt padlock)
- Security slot (in rear for optional Kensington® MicroSaver® cable)
- Password-on-power
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### Machine

- **Mini Tower (25L)**, business black color, metal case
- **(WxDxH)**: 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm
- **24.69 lb (11.20 kg) in maximum configuration**
- **toolless cover removal, adapter retention**
- **toolless disk, optical drive removal**

### Bay

- **Bay 1**: 5.25", 1.6" high, access, std optical
- **Bay 2**: 5.25", 1.6" high, access, open
- **Bay 3**: 3.5", 1" high, access, opt reader
- **Bay 4**: 3.5", 1" high, no access, std disk
- **Bay 5**: 3.5", 1" high, no access, opt disk

### Slot

- **Slot 1**: half-length, full-height, PCIe x 3.0 x 16 (75w max)
- **Slot 2**: half-length, full-height, PCIe x 2.0 x 1
- **Slot 3**: half-length, full-height, PCIe x 2.0 x 1 (4x ecc, 75w max)

### Limited Warranty

- **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>USB ports</th>
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</table>

**Positioning**

Mainstream enterprise stability and manageability

**Processor**

Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),

Intel HD Graphics 4400, 1600Mhz DDR3 memory controller

Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache),

Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600Mhz DDR3 memory controller.

Intel Core i7-4770 Processor (4 cores / 8 threads, 3.5GHz, 8MB cache),

Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600Mhz DDR3 memory controller.

Processor in LGA1150 socket

**Memory**

32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**

Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX® 11,

one VGA, two DisplayPort™, supports three independent displays, works along with
discrete graphics to support up to five independent displays.

Maximum resolution: 2560x1600 (DisplayPort)@60Hz;

1920x1200 (VGA)@60Hz (Reduced Blanking)

Some: NVIDIA® GeForce GT 620.

DirectX 11, 3D Hardware Acceleration,

1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts;

Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

Some: AMD Radeon HD 8570.

DirectX 11, 3D Hardware Acceleration,

2GB, PCI Express 3.0 x16 adapter (8x ecc), one VGA, one HDMI, 40 watts;

Max resolution: 4096x2160 (HDMI)@24Hz; 2048x1536 (VGA)@85Hz

Some: AMD Radeon™ HD 7450.

DirectX 11, 3D Hardware Acceleration,

1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle),

one DisplayPort, 25 watts;

Max resolution: 2560x1600 (DisplayPort, DVI-I)@60Hz

**Chipset**

Intel® Q65 Express Chipset

**Front ports**

Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm),

headphone (stereo, 3.5mm)

**Rear ports**

Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45),

one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models

**Rear audio ports**

Line-in (stereo, 3.5mm), line-out (microphone, stereo), microphone-in (stereo, 3.5mm)

**PCle WLAN**

None

**Audio**

High Definition (HD) Audio, Realtek® ALC662 codec

**Speaker**

Internal speaker for business audio (1.5 watt)

**IEEE 1394**

None

**Ethernet**

One gigabit ethernet port, Intel I217-LM (Clarksdale), Wake on LAN®

**Manageability**

Intel Standard Manageability

**Modem**

None

**Security chip**

Trusted Platform Module (TPM1.2-compliant)

**Keyboard**

Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

**Mouse**

Enhanced Optical USB Mouse, black, Lenovo logo

**Power supply**

280 watts, autosensing

**Machine**

Mini Tower (25L), business black color, metal case

(WxHxD) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm

24.69 lb (11.20 kg) in maximum configuration

Toolless cover removal, adapter retention

Toolless disk, optical drive removal

**Bay**

Bay 1: 5.25", 1.6" high, access, std optical

Bay 2: 5.25", 1.6" high, access, open

Bay 3: 3.5", 1" high, access, opt reader

Bay 4: 3.5", 1" high, no access, std disk

Bay 5: 3.5", 1" high, no access, opt disk

**Slot**

Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max)

Slot 2: half-length, full-height, PCIe 2.0 x1

Slot 3: half-length, full-height, PCIe 2.0 x1 (x4 ecc, 75w max)

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information

©Lenovo (MSK1T-8) October 2014
## Product Specifications Reference (PSREF)

### Type-model

<table>
<thead>
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<th>Slot x bay</th>
<th>Processor</th>
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<th>SATA optical</th>
<th>PCIe WLAN</th>
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<th>Graphics</th>
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<th>2nd serial port</th>
<th>Chassis intrusion switch</th>
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### Preloaded operating system

- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Desktop Power Manager
- Norton™ Studio
- AccuWeather
- Evernote®
- Microsoft Office preloaded;
- purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- ThinkVantage System Update
- Lenovo Solution Center
- Norton Internet Security
  - (30 days of virus definitions)
- Skype®
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

### Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### EPA® Gold rating

- ENERGY STAR® 6.0-compliant
- ULE Gold

### Supports ThinkVantage Technologies

- For compatible accessories,
  - please go to TC-AQP sheet;
- For Lenovo service upgrade options,
  - please go to S-TC sheet

### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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See footnotes for important warranty information ©Lenovo

(MSK1T-5) October 2014
ThinkCentre M83 Mini Tower (10AG) - ES 6.0 (Windows 8)

Product Specifications Reference (PSREF)

Optical DVD-ROM DL SATA 1.5Gb/s 16-48X Max

Disk SATA 6.0Gb/s 7200 rpm, 3.5" wide

Intel HD Graphics 4600

Graphics Memory 32GB max,

Some: PCIe WLAN

Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

Front ports Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm),

Intel Q85 Express Chipset

Chipset

Intel Q85 Express Chipset

Preloaded operating system

Windows® 8 Pro 64-bit

Ready to install applications

(only some listed)

- Password Manager

Preloaded applications

(only some listed)

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage by SugarSync
- Desktop Power Manager
- Norton™ Studio
- AccuWeather
- Evernote®
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- ThinkVantage System Update
- Lenovo Solution Center
- Norton Internet Security
- (30 days of virus definitions)
- Skype®
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information

US model(s) announced July 30, 2013

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(MSK1T-1) August 2013
### ThinkCentre M83 Mini Tower (10AG) - ES 6.0 (GMP)

<table>
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<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
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<th>SATA disk</th>
<th>GB rpm</th>
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<th>PCIe WLAN</th>
<th>Graphics</th>
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</table>

**Positioning**
Mainstream enterprise stability and manageability.

**Processor**

Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller.

**Implementation**
Processor in LGA1150 socket.

**Memory**
32GB max, supports three independent displays, works along with discrete graphics to support up to five independent monitors;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz;
1920x1200 (VGA)@60Hz (Reduced Blanking).

**Graphics**
Intel HD Graphics 4600 in processor, uses main memory, DirectX 11, one VGA, two DisplayPort™ supports three independent displays, works along with discrete graphics to support up to five independent monitors;
Maximum resolution: 2560x1600 (DisplayPort)@60Hz;
1920x1200 (VGA)@60Hz (Reduced Blanking).

**Disk**
SATA 6.0Gb/s 7200 rpm, 3.5" wide.

**Optical**
Some:
- NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration,
- 1GB, PCI Express 2.0 x16, one VGA, one DisplayPort, max 25 watts,
- Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz.

**SATA controller**
Serial ATA, SATA 6.0Gb/s, integrated in chipset.

**Onboard SATA**
Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s).

**eSATA port**
None.

**Media reader**
None.

**Chipset**
Intel Q85 Express Chipset.

**Front ports**
Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm).

**Rear ports**
Two USB 3.0, four USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models.

**Rear audio ports**
Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm).

**Bluetooh**
Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter.

**Audio**
High Definition (HD) Audio, Realtek ALC662 codec.

**Speaker**
Internals speaker for business audio (1.5 watt).

**IEEE 1394**
None.

**Ethernet**
One gigabit ethernet port, Intel I217-LM (Clarksville), Wake on LAN®.

**Manageability**
Intel Standard Manageability.

**Modem**
None.

**Security chip**
Trusted Platform Module (TPM1.2-compliant).

**Keyboard**
Some: Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo.
Some: Lenovo USB Fingerprint Keyboard (USB connector).

**Mouse**
Enhanced Optical USB Mouse, black, Lenovo logo.

**Power supply**
280 watts, autosensing, 85% PSU.

**Machine**

- Mini Tower (2SL), business black color, metal case
- (Wx Dx H) 6.89" x 17.41" x 16.32"; 175mm x 442.3mm x 414.5mm
- 24.69 lb (11.20 kg) in maximum configuration
- Toolless cover removal, adapter retention
- Toolless disk, optical drive removal

**Bay**

- Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max)
- Slot 2: half-length, full-height, PCIe 2.0 x1

**Slot**
Some:
- Max resolution: 2560x1600 (DisplayPort)@60Hz, 2048x1536 (VGA)@85Hz.
- Supports ThinkVantage Technologies

**Limited Warranty**
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available.

**Preloaded operating system**

- Some: Windows® 7 Professional 64
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Preloaded applications (only some listed)**
- Rescue and Recovery™
- Norton Internet Security™
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded: purchase a product key to activate Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

**Security**

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

**See footnotes for important warranty information**
ThinkCentre M93/M93p Tiny, Small Pro, Mini Tower

Lenovo ThinkCentre M93/M93p Tiny with optional external optical box

Lenovo ThinkCentre M93/M93p Tiny with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Tiny with optional external I/O box

Lenovo ThinkCentre M93/M93p Tiny with optional external optical box

Lenovo ThinkCentre M93/M93p Tiny (inside view)

Lenovo ThinkCentre M93/M93p Tiny
**Lenovo ThinkCentre M93/M93p Mini Tower**
- with Lenovo ThinkVision Monitor

**Lenovo ThinkCentre M93/M93p Small Pro**
- with Lenovo ThinkVision Monitor

**Lenovo ThinkCentre M93/M93p Small Pro**
- (inside view)

**Lenovo ThinkCentre M93/M93p Mini Tower**
- with optional WLAN and graphic card

**Lenovo ThinkCentre M93/M93p Small Pro**
- with optional dual graphic cards
  * Cable lock only available on some special bid models

**Optional 2.5" bay on**
- Lenovo ThinkCentre M93/M93p Small Pro
  * Come with optional 2.5" 2nd HDD
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>External optical / I/O box</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
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<th>Chassis intrusion switch</th>
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<th>Keyboard / mouse</th>
<th>Intel vPro</th>
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</tbody>
</table>

Preloaded operating system
Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies
For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
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US model(s) announced July 2, 2013
(MS81N-1) July 2013
## ThinkCentre M93p Tiny (10AB) - TopSeller II

### Product Specifications Reference (PSREF)

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<th>Memory</th>
<th>SATa disk</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
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<th>VESA mount</th>
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<td>Win7 Pro64 (DG)</td>
<td>07/02/13</td>
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</table>

### Positioning and Processor

**Intel Core i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),**

- Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600,
- integrated 1800MHz dual-channel DDR3 memory controller,
- Virtualization Technology

**Intel Core i7-4765T Processor (4 cores / 8 threads, 4.2GHz, 8MB cache),**

- Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600,
- integrated 1800MHz dual-channel DDR3 memory controller,
- Virtualization Technology

### Memory

16GB max, 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

### Graphics

- Intel HD Graphics 4600 in processor, uses main memory, DirectX 11,
- one VGA, one DisplayPort, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display
- Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1080 (HDMI) @60Hz;
  1920x1200 (VGA) @60Hz (Reduced Blanking)

### Disk

- Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory,
- SATA 6.0Gb/s, 2.5" wide
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

### External optical

- Some: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0

### SATA controller

- Serial ATA, SATA 6.0Gb/s support, integrated in chipset

### eSATA port

- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

### Chipset

**Intel G87 Express Chipset**

### Front ports

- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm),
- one headphone / microphone combo jack (stereo, 3.5mm)

### Rear ports

- Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models),
- one gigabit ethernet port, Intel 8257LM (Clarkville), Wake on LAN

### Audio

- High Definition (HD) Audio, Realtek ALC268 codec
- Internal speaker for business audio (1.5 watt)

### Speaker

None

### Ethernet

One gigabit ethernet port, Intel 8257LM (Clarkville), Wake on LAN

### Intel AMT

Intel Active Management Technology 9.0 (Intel AMT 9.0)

### Modern

None

### Security chip

Trusted Platform Module (TPM1.2-compliant)

### Keyboard

Prefered Pro USB Keyboard (USB connector), Lenovo logo

### Mouse

Enhanced Optical USB Mouse, black, Lenovo logo

### Floor Stand

Optional system floor stand for vertical orientation

### VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

### Power supply

65 watts AC/DC adapter, autosensing, 86% PSU

### Machine

- Tiny (1L), business black color; metal case
- M39/p Tiny Only: 7.0" W X 7.2" D X 1.4" H
- M39/p Tiny Only: 179mm W X 182mm D X 34.5mm H
- M39/p Tiny Only: 2.9 lb (1.3 kg), weight may vary by configuration
- With VESA mount & optical box: 7.2" W X 7.2" D X 2.65" H
- With VESA mount & optical box: 184mm W X 182mm D X 65mm H
- With VESA mount & optical box: 5.1 lb (2.3 kg), weight may vary by configuration

### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

### Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

### Ready to install applications

- Rescue and Recovery™
- Password Manager

### Preloaded applications

- ThinkVantage Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded: purchase a product key to activate
- Cyberlink PowerDVD (DVD+RW, DVD)
- Cyberlink Power2Go (DVD+RW)
- Cyberlink PowerProducer (DVD+RW)
- Lenovo Thinkpad Docking Station (DWS1N-2)
- Lenovo AppUp
- Intel Small Business Advantage
- Nitro Pro

### Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected models

### Support

- EPEAT® Gold rating
- ENERGY STAR® 6.0-compliant
- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

### For comparable accessories, please go to T-CAP sheet:
- Lenovo service upgrade options, please go to 5-TS sheet

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See footnote for important warranty information

US model(s) announced July 2, 2013 or December 10, 2013

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(MSS1N-2) December 2013
### ThinkCentre M93p Tiny (10AB) - TopSeller III

**Product Specifications Reference (PSREF)**

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<th>Type-model</th>
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<th>Graphics</th>
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<th>Optional port</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA mount / Keyboard Intel mouse vPro</th>
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<th>Ann date (mm/dd/yy)</th>
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#### Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology

**Positioning Processor**

Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation Processor**

Processor in LGA1150 socket

**Memory**

16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

**Graphics**

Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display:

- Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1080 (HDMI) @60Hz; 1920x1200 (VGA) @60Hz (Reduced Blanking)

**DP dongle**

None

**Disk**

Some:
- SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
- Some:
- 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" Wide
- Some:
- Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

**External optical**

Some:
- external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
- Some:
- external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0

**SATA controller**

Serial ATA, SATA 6.0Gb/s, support, integrated in chipset

**Onboard SATA eSATA port**

One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

**Chipset**

Intel® Integrated Express Chipset

**Front ports**

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

**Rear ports**

Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)

**I/O box**

Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port

**PCIe Mini Card**

One PCI Express® Mini Card slot (Half Size)

**PCIe WLAN**

Some:
- 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
- 11a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2

**Bluetooth**

Some:
- Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
- Some:
- Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

**Audio**

High Definition (HD) Audio, Realtek ALC268 codec

**Speaker**

Internal speaker for business audio (1.5 watt)

**IEEE 1394**

None

**Ethernet**

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

**Intel AMT**

Intel Active Management Technology 9.0 (Intel AMT 9.0)

**Modem**

None

**Security chip**

Trusted Platform Module (TPM1.2-compliant)

**Keyboard Mouse**

Preferred Pro USB Keyboard (USB connector), Lenovo® logo

**Floor Stand**

Enhanced Optical USB Mouse, black, Lenovo logo

**VESA mount**

Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

**Power supply**

65 watts AC/DC adapter, autosensing, 88% PSU

**Machine**

- Tiny (1L), business black color; metal case
- M93p Tiny only:
  - 7.0” W X 7.2” D X 1.4” H
- M93p Tiny only:
  - 179mm W X 182mm D X 34.5mm H
- M93p Tiny only:
  - 2.9 lb (1.3 kg), weight may vary by configuration
- With VESA mount & optical box:
  - 7.2” W X 7.2” D X 2.55” H
- With VESA mount & optical box:
  - 184mm W X 182mm D X 65mm H
- With VESA mount & optical box:
  - 5.1 lb (2.3 kg), weight may vary by configuration

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

### Preloaded operating system

- **Some:** Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- **Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVs RW, DVD)
- Cyberlink Power2Go (DVs RW)
- Cyberlink PowerProducer (DVs RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

### Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### ENERGY STAR® Gold rating

- UL Energy Star
- Cisco EnergyWise compatible
- GREENGUARD™ certified
- RoHS-compliant

For compatible accessories, please go to TC-AQP sheet;

For Lenovo service upgrade options, please go to S-TC sheet

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US model(s) announced January 14 or February 25, 2014

(MSS1N-8) February 2014

See footnotes for important warranty information
### ThinkCentre M93p Tiny (10AB) - TopSeller IV

#### Product Specifications Reference (PSREF)

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#### Graphics

- Intel® HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent displays.
- Maximum resolution: 2560x1600 (DisplayPort) @ 60Hz; 1920x1080 (HDMI) @ 60Hz; 1920x1200 (VGA) @ 60Hz (reduced blanking)

#### Embedded options
- Intel® Core i7-4785T Processor
- Intel® Core i5-4590T Processor
- Intel® Core i5-4590T Processor
- Intel® Core i3-4160 Processor
- Intel® Core i5-4460T Processor
- Intel® Core i5-4590T Processor
- Intel® Core i5-4460T Processor
- Intel® Core i7-4500U Processor
- Intel® Core i7-4500U Processor
- Intel® Core i5-4210U Processor
- Intel® Core i3-4130 Processor
- Intel® Core i3-4130 Processor

#### Security features
- Trusted Platform Module (TPM 1.2-compliant)
- Intel® Small Business Advantage
- Intel® vPro™ Technology

#### Preloaded operating system

- Windows® 7 Professional 64-bit preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Windows® 7 Professional 64-bit preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

#### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Internet Security

#### Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

#### Product features

- ENERGY STAR® 6.0-compliant
- RoHS-compliant
- Supports ThinkVantage Technologies

#### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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©Lenovo (MSS1N-10) October 2014
ThinkCentre M93p Tiny (10AB) - TopSeller V

Product Specifications Reference (PSREF)

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**Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**

Positioning Processor

**Intel Core i5-4590T Processor (4 cores / 8 threads, 2.0GHz, 6MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1800MHz DDR3 memory controller**

Intel Core i7-4785T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache), Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1800MHz DDR3 memory controller

Processor in LGA1150 socket

Memory

16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

Graphics

- Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display:
  - **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

- DP dongle: None

Disk

- Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLc NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

External optical SATA controller

- Some: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
- Some: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0

Onboard SATA eSATA port

- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

- None

Chipset

Intel Q87 Express Chipset

Front ports

- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

Rear ports

- Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models), ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)

I/O box

- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port

PCIe Mini Card

- One PCI Express® Mini Card slot (Half Size)

PCIe WLAN

- Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
- Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2

Bluetooth

- Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

Audio

High Definition (HD) Audio, Realtek® ALC283 codec

Speaker

Internal speaker for business audio (1.5 watt)

IEEE 1394

None

Ethernet

- One gigabit ethernet port, Intel i217-LM (Clarksville), Wake on LAN®

Intel AMT

Intel Active Management Technology 9.0 (Intel AMT 9.0)

Modem

None

Security chip

Trusted Platform Module (TPM1.2-compliant)

Keyboard

Preferred Pro USB Keyboard (USB connector), Lenovo® logo

Mouse

Enhanced Optical USB Mouse, black, Lenovo logo

Floor Stand

Optional system floor stand for vertical orientation

VESA mount

Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standards

Power supply

55 watts AC/DC adapter, autoselection, 88% PSU

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- M39/p Tiny only: 2.9 lb (1.3 kg), weight may vary by configuration
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- With VESA mount & optical box: 184mm W X 182mm D X 65mm H
- With VESA mount & optical box: 5.1b (2.3 kg), weight may vary by configuration
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Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

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- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
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- Cyberlink Power2Go (DVDs/RW)
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- Intel Small Business Advantage
- Nitro Pro

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- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating

ENERGY STAR® 6.0-compliant

ULE Gold

Cisco EnergyWise compatible

GREENGUARD® certified

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;

For Lenovo service upgrade options, please go to S-TC sheet
## ThinkCentre M93p SFF Pro (10A9) - TopSeller - I

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>PCIe WLAN</th>
<th>Graphics</th>
<th>Additional Front USB 2.0</th>
<th>2nd serial port</th>
<th>Parallel port</th>
<th>Chassis Intrusion switch</th>
<th>Floor stand</th>
<th>Intel vPro</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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### Positioning

**Processor**: Ultimate security, stability, and manageability for the enterprise

Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHzHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel® Core™ i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel® Core™ i7-4770 Processor (4 cores / 4 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel® Core™ i7-4770 Processor (4 cores / 4 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

### Implementation

Processor: Processor in LGA1150 socket

Memory: 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

### Graphics

Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors;

Maximum resolution: 2560x1600 (DisplayPort)@60Hz;
1920x1200 (VGA)@60Hz (Reduced Blanking)

Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts;
Max resolution: 2560x1600 (DisplayPort)@60Hz;
2048x1536 (VGA)@60Hz

DP dongle: None

### Disk

Some: SATA 6.0Gb/s 7200 rpm, 3.5" wide
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

### Optical

Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

### SATA controller

Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support

### Onboard SATA

Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)

### eSATA port

None

### Media reader

None

### Chipset

Intel® Q87 Express Chipset

### Front ports

Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

### Rear ports

Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), one VGA, two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models

### Rear audio ports

Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

### PCIe WLAN

Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1

### Bluetooth

None

### Audio

High Definition (HD) Audio, Realtek® ALC662 codec

### Speaker

Internal speaker for business audio (1 watt)

### IEEE 1394

None

### Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

### Intel AMT

Intel Active Management Technology 9.0 (Intel AMT 9.0)

### Modern

None

### Security chip

Trusted Platform Module (TPM1.2-compliant)

### Keyboard Mouse

Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

Enhanced Optical USB Mouse, black, Lenovo logo

### Floor Stand

Some: System floor stand for vertical orientation

### Power supply

240 watts, autotuning, 85% PSU

### Machine

- SFF Pro (12.9L), business black color; metal case
- (WXoHxV) 13.31” X 14.76” X 4.02”, 338mm X 375mm X 102mm
- 17.20 lb (7.8 kg) in maximum configuration
- Toolless cover removal, adapter retention
- Toolless disk and optical drive removal
- Disk: 5.25", 1.6" high, external, std optical
- Bay 2: 3.25", 1" high, internal, std disk
- Bay 2: 3.25", N/A, internal, opt, come with opt 2.5" 2nd disk
- Bay 4: 3.5", 0.5" high, external, opt reader

### Bay

Slot 1: Low Profile, PCI Express 3.0 x16 (40w max)
Slot 2: Low Profile, PCI 2.0 x1
Slot 3: Low Profile, PCI 2.0 x16 (x4 ecc, 40w max)
Slot 4: Low Profile, 32-bit PCI 2.3

### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton® Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for optional Kensington® MicroSaver® cable)
  - Boot-on-password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Serial port I/O control
  - Individual USB port disablement
  - Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating
ENERGY STAR® 6.0-compliant
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet; please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced June 18, 2013 or August 13, 2013
### Product Specifications Reference (PSREF)

#### ThinkCentre M93p SFF Pro (10A9) - TopSeller - II

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<th>Intel vPro</th>
<th>Preload</th>
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<td>Stand</td>
<td>vPro</td>
<td>Win7 Pro64 (DG)</td>
<td>12/10/13</td>
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</table>

*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*

#### Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

#### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

#### Preloaded applications (only some listed)

- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security

#### Security

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock (in rear for optional Kensington™ MicroSaver® cable)
  - Security slot (in rear for optional Kensington™ MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

#### Machine

- SFF Pro (12.9L), business black color; metal case
- 17.20 lb (7.8 kg) in maximum configuration
- Toolless cover removal, adapter retention
- Toolless disk and optical drive removal

#### Bay

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
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<th>Optical Drive</th>
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<th>2nd serial port</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>Intel vPro</th>
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<th>Ann date (mm/dd/yy)</th>
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<td>Intel Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</td>
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<td>vPro</td>
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</table>

**Preloaded operating system**

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Preloaded applications (only some listed)**

- Rescue and Recovery™
- Password Manager
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

**Security**

- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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See footnotes for important warranty information

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(MSS1S-5) June 2014
ThinkCentre M93p SFF Pro (10A9) - TopSeller - IV

Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
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<th>Processor</th>
<th>Memory</th>
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<th>SATA controller</th>
<th>Onboard SATA</th>
<th>Chipset</th>
<th>Preloaded operating system</th>
<th>Preloaded applications (only some listed)</th>
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</table>

Limited Warranty 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information
# ThinkCentre M93p Mini Tower (10A7) - TopSeller

<table>
<thead>
<tr>
<th>Model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>Optical</th>
<th>Graphics</th>
<th>Additional 2nd Front USB 2.0</th>
<th>Chassis intrusion switch</th>
<th>Intel vPro</th>
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<th>Ann date (mm/dd/yy)</th>
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<th>Preloaded applications (only some listed)</th>
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</table>

## Positioning
- Ultimate security, stability, and manageability for the enterprise

## Processor
- Intel Core i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache)
- Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i5-4670 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache)
- Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache)
- Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

## Memory
- 32GB max, UDIMM, FC-12800 1600MHz DDR3, four 240-pin DIMM sockets

## Graphics
- Intel HD Graphics 4600 in processor, uses main memory, DirectX 11, 1680x1050 (VGA)@60Hz
- Supports three independent displays, works along with discrete graphics to support up to five independent monitors;
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz
- 1920x1200 (VGA)@60Hz (Reduced Blanking)

## Chipset
- Intel Q87 Express Chipset
- 29-in-1 media reader, internal USB 2.0

## Preloaded operating system
- Windows 7 Professional 64-preinstalled through downgrade rights in Windows 8 Pro 64-bit

## Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

See footnotes for important warranty information

US model(s) announced June 18, 2013, July 9, 2013, or October 8, 2013

©Lenovo

(MS1T-3) October 2013
**ThinkCentre M93p Mini Tower (10A7) - TopSeller - II**

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory*</th>
<th>SATA disk</th>
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<td>Wint P64 DG Win8.1</td>
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</table>

### Preloaded operating system

Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Massaget Center Plus
- Norton™ Internet Security
- 30 days of virus definitions
- Adobe® Reader™
- Skype™
- Microsoft Office preloaded
- purchase a product key to activate
- Cyberlink PowerDVD (DVD+RW, DVD)
- Cyberlink PowerGo (DVD+RW)
- Cyberlink PowerProducer (DVD+RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

### Graphics

Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort®, supports three independent displays, works along with discrete graphics to support up to five independent monitors;

- **Max resolution:** 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz
- **Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller**

### Security

- • Security chip (see information on left)
- • One lock to secure both cover and entire system to fixed object:
- ▪ Padlock loop (in rear for opt padlock)
- ▪ Security slot (in rear for opt padlock)
- ▪ Security slot (in rear for opt padlock)
- ▪ Power-on password
- ▪ Administrator password
- ▪ Hard disk password
- ▪ Boot sequence control
- ▪ Boot without keyboard and mouse
- ▪ Serial port I/O control
- ▪ Individual USB port disablement
- ▪ ThinkVantage® Chassis intrusion switch on selected model(s)

### Preloaded features

- EPEAT™ Gold rating
- ENERGY STAR® 6.0-compliant
- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

**Supports ThinkVantage Technologies**

For compatible accessories, please go to TC-AIO-Access;
For Lenovo service upgrade options, please go to S-TC sheet
### ThinkCentre M93p Tiny (10AA) - 1 Year Depot

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory¹</th>
<th>SATA disk GB rpm</th>
<th>External optical / I/O box</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Optional port</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA mount</th>
<th>Keyboard &amp; mouse</th>
<th>vPro</th>
<th>Windows Preinstall</th>
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**Type-model**: i5-4570T (10AA0023US), i7-4765T (10AA0024US, 10AA0025US)

#### Processor

- **Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache),**
- **Turbo Boost 2.0 (3.6GHz),**
- **Integrated Intel HD Graphics 4600,**
- **Integrated 1600MHz dual-channel DDR3 memory controller,**
- **Virtualization Technology**

**Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache),**

- **Turbo Boost 2.0 (3.0GHz),**
- **Integrated Intel HD Graphics 4600,**
- **Integrated 1600MHz dual-channel DDR3 memory controller,**
- **Virtualization Technology**

#### Implementation

- Processor in LGA1150 socket

**Memory**

- 16GB max,
- Processor in LGA1150 socket

**Graphics**

- Intel HD Graphics 4600 in processor, uses main memory, DirectX 11
- One VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz;
- 1920x1200 (VGA)@60Hz (Reduced Blanking)

**Disk**

- Some: SATA 6.0Gb/s, 2.5” Wide, 7200 rpm

**External optical**

- None

**SATA controller**

- Serial ATA, SATA 6.0Gb/s support, integrated in chipset

**Onboard SATA**

- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

**Chips**

- Intel G87 Express Chipset

**Front ports**

- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

**Rear ports**

- Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on some models),
- Ethernet (RJ-45), VGA DB-15, DisplayPort connector, one optional port (DisplayPort / HDMI on selected models)
- One optional I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port

**PCle Mini Card**

- One PCI Express™ Mini Card slot (Half Size)

**PCle WLAN**

- Some: 11b/g/n wireless, PCI Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
- Some: 11a/b/g/n, wireless, PCI Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2

**Bluetooth**

- Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

**Audio**

- High Definition (HD) Audio, Realtek® ALC283 codec

**Speaker**

- Internal speaker for business audio (1.5 watt)

**IEEE 1394**

- None

**Ethernet**

- One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®, Intel Active Management Technology 9.0 (Intel AMT 9.0)

**Modem**

- None

**Security chip**

- Trusted Platform Module (TPM 1.2-compliant)

**Keyboard & Mouse**

- Preferred Pro USB Keyboard (USB connector), Lenovo® logo
- Enhanced Optical USB Mouse, black, Lenovo logo

**Floor Stand**

- Optional system floor stand for vertical orientation

**VESAs mount**

- Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

**Power supply**

- 55 watts AC/DC adapter, autoselecting, 85% PSU

**Machine**

- Tiny (1L), business black color; metal case
- M93p Tiny only:
  - 7.0” W X 7.2” D X 1.4” H
- M93p Tiny only:
  - 179mm W X 182mm D X 45.4mm H
- M93p Tiny only:
  - 2.9 lb (1.3 kg), weight may vary by configuration
- With VESA mount & optical box:
  - 7.2” W X 7.2” D X 2.55” H
- With VESA mount & optical box:
  - 184mm W X 182mm D X 65mm H
- With VESA mount & optical box:
  - 5.1 lb (2.3 kg), weight may vary by configuration

**Limited Warranty**

- 1-years - depot repair service / service upgrades available

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**Positioning**

- Ultimate security, stability, and manageability for the enterprise

- A depot repair service 1-year limited warranty

**Preloaded operating system**

- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Ready to install applications**

- Only some listed
- Rescue and Recovery™
- Password Manager

**Preloaded applications**

- Only some listed
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded;
- purchase a product key to activate
- Cyberlink PowerDVD (DVD+RW, DVD)
- Cyberlink Power2Go (DVD+RW)
- Cyberlink PowerProducer (DVD+RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

**Security**

- Only some listed
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

**EPEAT Gold rating**

- ENERGY STAR® 6.0-compliant
- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

**Supports ThinkVantage Technologies**

- For compatible accessories, please go to TC-AQP sheet;
- For Lenovo service upgrade options, please go to S-TS sheet
### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>Hybrid DVD±RW HD 4600</th>
<th>Intel 6235</th>
<th>Optional HDMI port</th>
<th>Intel vPro</th>
<th>Global (G) MGP (P)</th>
<th>Preload</th>
<th>Boot without keyboard and mouse</th>
<th>Limited Warranty</th>
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</table>

**Positioning**

- Ultimate security, stability, and manageability for the enterprise
- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 3-year limited warranty

**Processor**

- Intel® Core™ i7-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache)
- Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- Intel Core i7-4765T Processor (4 cores / 8 threads, 2.0GHz, 8MB cache)
- Turbo Boost 2.0 (3.0GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

**Graphics**

- Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to four independent displays; Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

**Disk**

- Some: SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

**External optical SATA controller**

- Some: external optical drive with slim DVD burner, 12.7mm high, tray-in, via USB 3.0

**Onboard SATA eSATA port**

- Some: one SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

**Chipset**

- Intel® G47 Express Chipset
- Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.9GHz, 4MB cache)
- Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

**Bluetooth Audio**

- Some: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
- High Definition (HD) Audio, Realtek® ALC283 codec

**Speaker**

- Internal speaker for business audio (1.5 watt)

**IEEE 1394**

- None

**Ethernet**

- One gigabit ethernet port, Intel I217-ML (Clarkville), Wake on LAN™

**Intel AMT**

- Intel Active Management Technology 9.0 (Intel AMT 9.0)

**Modern Security chip**

- Trusted Platform Module (TPM 2.0-compliant)

**Keyboard Mouse**

- Preferred Pro USB Keyboard (USB connector), Lenovo® logo
- Enhanced Optical USB Mouse, black, Lenovo logo

**Floor Stand**

- Optional system floor stand for vertical orientation

**VESAmount**

- Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

**Power supply**

- 65 watts AC/DC adapter, autoselecting, 88% PSU

**Machine**

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

**Preloaded operating system**

- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications**

- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

**Security**

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

**See footnotes for important warranty information**
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>Optical external / I/O box</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
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<th>VESA mount</th>
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</table>

**Preloaded operating system**
- Some: Windows® 7 Professional 64
- Some: Windows 7 Professional 64-preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Ready to install applications (only some listed)**
- Rescue and Recovery™
- Password Manager

**Security**
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington™ MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

**Security Chip**
- Trusted Platform Module (TPM 2.0-compliant)

**Memory**
- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

**Graphics**
- Intel HD Graphics 4600 in processor, uses main memory, DirectX®, two 204-pin SODIMM sockets (notebook)

**Front ports**
- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

**Rear ports**
- Three USB 3.0 (optional external optical box or external I/O box occupies one specific USB 3.0 on selected models), ethernet (RJ-45), VGA DB-15, DisplayPort connection, one optional port (USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models)

**I/O box**
- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), one serial, and two PS/2 (for keyboard and mouse), via USB 3.0 port

**SATA controller**
- One PCI Express® Mini Card slot (Half Size)

**Onboard SATA**
- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

**Chipset**
- Intel Q87 Express Chipset

**Preloaded applications (only some listed)**
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton® Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™

**Keyboard and Mouse**
- Preferred Pro USB Keyboard (USB connector), Lenovo® logo
- Enhanced Optical USB Mouse, black, Lenovo logo

**Floor stand**
- Optional system floor stand for vertical orientation

**Power supply**
- 65 watts AC/DC adapter, autoselecting, 88% PSU

**Machine**
- Tiny (1L), business black color; metal case
- M93p Tiny only: 7.0" W X 7.2" D X 1.4" H
- M53p Tiny only: 179mm W X 182mm D X 34.5mm H
- M33p Tiny only: 2.9 lb (1.3 kg), weight may vary by configuration
- With M93p mount & optical bay: 7.2" W X 7.2" D X 2.55" H
- With M93p mount & optical bay: 184mm W X 182mm D X 65mm H

**Limited Warranty**
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information ©Lenovo (MSS1N-5) June 2014
ThinkCentre M93p Tiny (10AA) - GMP - II

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory²</th>
<th>SATA disk GB rpm</th>
<th>External optical / I/O box</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Optional port</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA mount</th>
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<td>07/08/14</td>
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</table>

**Positioning**

Ultimate security, stability, and manageability for the enterprise

**Processor**

- Intel® Core™ i5-4590T Processor (4 cores / 4 threads, 2.0GHz, 6MB cache).
- Intel HD Graphics 4600, 1600MHz DDR3 memory controller.

**Implementation**

Processor in LGA1150 socket

**Graphics**

Intel HD Graphics 4600

**Disk**

- Sata 3.0Gb/s, 2.5" Wide, 5400 rpm
- 500GB (5400 rpm) hybrid hard disk / 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
- External optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB 3.0
- External optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0

**SATA controller**

Serial ATA, SATA 6.0Gb/s support, integrated in chipset

**Onboard SATA eSATA port**

- One SATA cable (1-drop to device), one SATA 6.0Gb/s connector on planar

**Chipset**

Intel Q87 Express Chipset

**Audio**

High Definition (HD) Audio, Realtek® ALC283 codec

**Speaker**

Internal speaker for business audio (1.5 watt)

**IEEE 1394**

None

**Ethernet**

- One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
- Intel AMT
- Intel Active Management Technology 9.0 (Intel AMT 9.0)

**Modem**

None

**Security chip**

Trusted Platform Module (TPM1.2-compliant)

**Keyboard**

Preferred Pro USB Keyboard (USB connector), Lenovo® logo

**Mouse**

Enhanced Optical USB Mouse, black, Lenovo logo

**Floor Stand**

Optional system floor stand for vertical orientation

**VESAs mount**

Optional VESA mount bracket kit, supports VESA 75mm and 100mm mount standard

**Power supply**

65 watts AC/DC adapter, autoselecting, 88% PSU

**Machine**

- Tiny (1L), business black color; metal case
- M93/p Tiny only: 7.0" W X 7.2" D X 1.4" H
- M93/p Tiny only: 179mm W X 182mm D X 34.5mm H
- M93/p Tiny only: 2.9 lb (1.3 kg), weight may vary by configuration
- With VESA mount & optical box: 184mm W X 182mm D X 65mm H
- With VESA mount & optical box: 5.1 lb (2.3 kg), weight may vary by configuration

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

*Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology

*Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

---

**Preloaded operating system**

Some:
- Windows® 7 Professional 64
- Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications (only some listed)**

- Rescue and Recovery™
- Password Manager

**Preloaded applications (only some listed)**

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded;
- purchase a product key to activate
- Cyberlink PowerDVD (DVD+RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

---

**Security**

- Security chip (see information on left)
- Security slot (in rear of attachment of optional Kensington™ MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

**EPEAT® Gold rating**

ENERGY STAR® 6.0-compliant

ULE Gold

Cisco EnergyWise compatible

GREENGUARD® certified

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet

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(MSS1N-9) July 2014
<table>
<thead>
<tr>
<th>Processor</th>
<th>Memory</th>
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<th>Optional I/O Port</th>
<th>Chassis Intrusion Switch</th>
<th>Floor Stand</th>
<th>VESA Mount</th>
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### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
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</table>

**Positioning:**
- Ultimate security, stability, and manageability for the enterprise

**Trade-off:**

**Processor:**
- Intel® Core™ i5-4570 (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel® VT-x 64-bit processors, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Intel® VT-x 64-bit processors

**Implementation:**
- Processor in LGA1150 socket

**Memory:**
- 32GB max, UDIMM. 12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics:**
- Intel® HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays, works along with discrete graphics to support up to five independent monitors;
- Maximum resolution: 2560x1600 (DisplayPort) @60Hz;
- Some: AMD Radeon™ HD 7450, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one DVI-I (includes DVI-to-VGA dongle), one DisplayPort, 25 watts;
- Maximum resolution: 2560x1600 (DisplayPort, DVI-I) @60Hz;
- Some: NVIDIA® GeForce® GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts;

**Disk:**
- SATA 6.0Gb/s 7200 rpm, 3.5" wide

**Optical:**
- Super Multi-Burner DL DVD+RW SATA 1.5Gb/s Drive

**SATA controller:**
- Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support

**Onboard SATA:**
- Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)

**eSATA port:**
- None

**Media reader:**
- Some: 29-in-1 media reader, slim, internal USB 2.0

**Chipset:**
- Intel® Q87 Express Chipset

**Front ports:**
- Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm), microphone (stereo, 3.5mm)

**Rear ports:**
- Four USB 3.0, two USB 2.0, serial (9-pin), two DisplayPort, additional VGA, DisplayPort, or HDMI ports on optional graphic card on some models

**Rear audio ports:**
- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

**PCIe WLAN:**
- Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1

**Bluetooth:**
- None

**Audio:**
- High Definition (HD) Audio, Realtek® ALC662 codec

**Speaker:**
- Internal speaker for business audio (1 watt)

**IEEE 1394:**
- None

**Ethernet:**
- One gigabit ethernet port, Intel® I217-LM (Clarkville), Wake on LAN®

**Intel AMT:**
- Intel Active Management Technology 9.0 (Intel AMT 9.0)

**Modem:**
- None

**Security chip:**
- Trusted Platform Module (TPM1.2-compliant)

**Keyboard:**
- Preferred Pro USB Keyboard (USB connector), black, Lenovo™ logo

**Mouse:**
- Enhanced Optical USB Mouse, black, Lenovo logo

**Floor Stand:**
- System floor stand for vertical orientation

**Power supply:**
- 240 watts, autotuning, 85% PSU

**Machine:**
- SFF Pro (12.9L), business black color; metal case
- (WxDxH) 13.1" x 14.76" x 4.02"; 339mm x 375mm x 102mm
- 17.20 lb (7.8 kg) in maximum configuration
- Toolless cover removal, adapter retention
- Toolless disk and drive optical removal

**Bay:**
- Bay 1: 5.25" (1.6" high, external, std optical
- Bay 2: 3.5", 1" high, internal, std disk
- Bay 3: 3.5", N/A, internal, opt or come with opt 2.5" 2nd disk
- Bay 4: 3.5", 0.5" high, external, opt reader

**Slot:**
- Slot 1: Low Profile, PCI Express 3.0 x16 (40x max)
- Slot 2: Low Profile, PCI 2.0 x1
- Slot 3: Low Profile, PCle 2.0 x16 (x4 elec, 40x max)
- Slot 4: Low Profile, 32-bit PCI 2.3

**Limited Warranty:**
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

**Preloaded operating system:**
- Some: Windows® 7 Professional 64-bit preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64-bit preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Preloaded applications (only some listed):**
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded;
  - purchase a product key to activate
- Cyberlink PowerDVD (DVD+RW, DVD)
- Cyberlink PowerProducer (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD+RW, DVD)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

**Security:**
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object;
  - Padlock loop (in rear for optional padlock)
  - Security slot (in rear for optional Kensington™ MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

**EPEAT® Gold rating**
- ENERGY STAR® 6.0-compliant
- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- Supports ThinkVantage Technologies
- For compatible accessories, please go to TC-AQP sheet;
- For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information
US model(s) announced June 18, 2013 or February 4, 2014

(MSIS1S-1) February 2014
### Preloaded operating system

**Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit  
**Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage™ Product Recovery  
- ThinkVantage System Update  
- ThinkVantage Communication Utility  
- Desktop Power Manager  
- View Management Technology  
- Lenovo Cloud Storage by SugarSync  
- Lenovo Solution Center  
- Lenovo Message Center Plus  
- Norton™ Internet Security  
- Adobe® Reader®  
- Skype™  
- Microsoft Office preloaded; purchase a product key to activate  
- Cyberlink PowerDVD (DVD+RW, DVD)  
- Cyberlink PowerProducer (DVD+RW)  
- Evernote  
- Intel AppUp  
- Intel Small Business Advantage  
- Nutro Pro  

### Security

- Security chip (see information on left)  
- One lock to secure both cover and entire system to fixed object:  
  - Padlock loop (in rear for opt padlock)  
  - Security slot (in rear for optional Kensington™ MicroSaver® cable)  
- Power-on password  
- Administrator password  
- Hard disk password  
- Boot sequence control  
- Boot without keyboard and mouse  
- Serial port I/O control  
- Individual USB port disablement  
- Chassis intrusion switch on selected model(s)

### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays,

See footnotes for important warranty information

©Lenovo (MSS1S-8) October 2014
### ThinkCentre M93p SFF Pro (10A8) - GMP

#### Product Specifications Reference (PSREF)

| Type-model | Slot x bay | Processor | Memory¹ | SATADisk rpm | Media reader | Graphics | PCIe W/LAN | Additional 2nd Front Port | Chassis Intrusion Switch | Floor stand | Intel (G) | GMP (P) | Preload | Anno Date
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#### Positioning

**Processor**
- _Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache)_
- Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- _Intel Core i5-4590 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache)_
- Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- _Intel Core i7-4770 Processor (4 cores / 4 threads, 3.4GHz, 8MB cache)_
- Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Memory**
- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

#### Graphics

- Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™ supports, three displays, works along with discrete graphics to support up to five independent monitors;
- **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz;
- **Minimum resolution:** 1024x768 (VGA)@60Hz (Reduced Blanking)

** Some:**
- **AMD Radeon™ HD 8470,** DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, DisplayPort, 25 watts,
- **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

** Some:**
- **NVIDIA® GeForce® GT 620,** DirectX 11, 2D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one VGA, DisplayPort, 30 watts,
- **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

#### Optical

- SATA, SFF Pro (12.9L), business black color; metal case
- **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

** Some:**
- **NVIDIA® GeForce® GT 620,** DirectX 11, 2D Hardware Acceleration, 1GB, PCI Express® 2.0 x16 adapter, one VGA, DisplayPort, 30 watts,
- **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

#### Security

- **Security chip** (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- **Power-on password**
- **Administrator password**
- **Hard disk password**
- **Boot sequence control**
- **Boot without keyboard and mouse**
- **Boot without keyboard and mouse**
- **Individual USB port I/O control**
- **Individual USB port disablement**
- **Chassis intrusion switch on selected model(s)**

#### Power supply

- 240 watts, autosensing, 85% PSU

#### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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See footnotes for important warranty information

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(MSS1S-2) July 2014
<table>
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<th>Graphics</th>
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**Preloaded operating system**
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications (only some listed)**
- Rescue and Recovery™
- Password Manager

**Preloaded applications (only some listed)**
- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security

**Security**
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Serial port I/O control
- Individual USB port disabling
- Chassis intrusion switch on selected model(s)

**Machine**
- Mini Tower (25L), business black color, metal case
- (Wx Dx H) 6.89" X 17.41" X 16.32"; 175mm X 442.3mm X 414.5mm
- 24.69 lb (11.20 kg) in maximum configuration
- Toolless cover removal, adapter retention
- Toolless disk, optical drive removal

**Bay**
- Bay 1: 5.25"; 1.6" high, access, std optical
- Bay 2: 5.25"; 1.6" high, access, open
- Bay 3: 3.5"; 1" high, access, opt reader
- Bay 4: 3.5"; 1" high, no access, std disk
- Bay 5: 3.5"; 1" high, no access, opt disk

**Slot**
- Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max)
- Slot 2: half-length, full-height, PCIe 2.0 x8
- Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 ecc, 75w max)
- Slot 4: half-length, full-height, 32-bit PCI 2.3

**Limited Warranty**
3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
ThinkCentre M93p Mini Tower (10A6) - II  

**Product Specifications Reference (PSREF)**

**Positioning**  
Ultimate security, stability, and manageability for the enterprise

**Processor**  
Intel® Core™ i5-4570 Processor (4 cores / 4 threads, 3.2GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation**  
Processor in LGA1150 socket

**Memory**  
32GB max, Processor in LGA1150 socket

**Audio**  
High Definition (HD) Audio, Realtek

**Bluetooth**  
None

**PCIe WLAN**  
None

**Rear ports**  
Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45),

**Front ports**  
Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm),

**Disk**  
SATA 6.0Gb/s 7200 rpm, 3.5" wide

**Optical**  
Super Multi-Burner DL DVD±RW SATA 1.5Gb/s/Drive

**SATA controller**  
Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support

**Onboard SATA**  
Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors,

**eSATA port**  
one eSATA connector (SATA 6.0Gb/s)

**Media reader**  
Some: in-1 media reader, internal USB 2.0

**Chipset**  
Intel G87 Express Chipset

**Front ports**  
Two USB 3.0, two optional USB 2.0, microphone (stereo, 3.5mm),

**Rear ports**  
Four USB 3.0, two USB 2.0, serial (9-pin), optional 2nd serial (9-pin), ethernet (RJ-45),

**Rear audio ports**  
Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

**PCIe WLAN**  
11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT 4.0 combo, 2x2

**Bluetooth**  
Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Audio**  
High Definition (HD) Audio, Realtek ALC662 codec

**Speaker**  
Internal speaker for business audio (1.5 watt)

**IEEE 1394**  
None

**Ethernet**  
One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

**Intel AMT**  
Intel Active Management Technology 9.0 (Intel AMT 9.0)

**Modem**  
None

**Security chip**  
Trusted Platform Module (TPM1.2-compliant)

**Keyboard**  
Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo

**Mouse**  
Enhanced Optical USB Mouse, black, Lenovo logo

**Power supply**  
280 watts, autoselecting, 85% PSU

**Machine**  
Mini Tower (25L), business black color, metal case

**Bay**  
Bay 1: 5.25", 1.6" high, access, std optical

**Slot**  
Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max)

**Limited Warranty**  
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available
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<td>G P</td>
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</table>

Positioning

Processor

Intel® Core i5-4570 Processor (4 cores / 8 threads, 3.2GHz, 6MB cache),
Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Intel Core i5-4590 Processor (4 cores / 8 threads, 3.6GHz, 6MB cache),
Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Intel Core i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache),
Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
Intel Core i7-4790 Processor (4 cores / 8 threads, 3.7GHz, 8MB cache),
Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Graphics

Accuracy:

Input Devices:

- Keyboard: Preferred Pro USB Keyboard (USB connector), black, Lenovo logo
- Mouse: Enhanced Optical USB Mouse, black, Lenovo logo

Power supply:

- 280 watts, autosensing, 85% PSU

Machine:

- Mini Tower (25L), business black color, metal case
- (WxDxH): 6.89” x 17.41” x 16.32”
- 6.89” x 17.41” x 16.32”; 175mm X 442.3mm X 414.5mm
- 24.89 lb (11.20 kg) in maximum configuration

- Toolless cover removal, adapter retention
- Toolless disk, optical drive removal

Bay:

- Bay 1: 5.25”, 16” high, access, std optical
- Bay 2: 5.25”, 16” high, access, open
- Bay 3: 3.5”, 11” high, access, opt reader
- Bay 4: 3.5”, 11” high, no access, std disk
- Bay 5: 3.5”, 11” high, no access, opt disk
- Slot 1: half-length, full-height, PCIe 3.0 x16 (75w max)
- Slot 2: half-length, full-height, PCIe 2.0 x16
- Slot 3: half-length, full-height, PCIe 2.0 x16 (x4 elec, 75w max)
- Slot 4: half-length, full-height, 32-bit PCI 2.3

Limited Warranty:

- 3 years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information

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(MS11T-2) July 2014
ThinkCentre M93z All-In-One

ThinkCentre M93z (Multi-touch) with Frame Stand and optional wireless keyboard and mouse

ThinkCentre M93z (Non-touch) with Monitor Stand and optional wireless keyboard and mouse

ThinkCentre M93z with Monitor Stand with optional PS/2 and Serial ports

ThinkCentre M93z with Frame Stand with optional PS/2 and Serial ports

Frame Stand
(Adjustable between 10° and 45°)

Monitor Stand
(Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°)
ThinkCentre M93z (10AF) - TopSeller (1-year onsite)

**Positioning**
Premium All-In-One PC for the enterprise

**Processor**
Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller

**Implementation**
Processor in LGA1150 socket

**Memory**
16GB max, DDR3 1600MHz, 2x 8GB DDR3L-1600 8GBx2, 204-pin SODIMM sockets (notebook) *System automatically clocks down for processors with 1333MHz memory controller

**Graphics**
Intel HD Graphics in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @ 60Hz

**Display**
23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

**Light sensor**
Optional ambient light sensor

**Camera**
Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

**Controls**
Microphone mute (OSD exit), monitor mode switch (OSD enter), digital microphone, LED indicator, physical switch on/off

**Disk**
Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

**Optical**
DVB burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

**Onboard SATA**
Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

**Media reader**
Optional 11-in-1 media card reader

**Chipset**
Intel Q87 Express Chipset

**Rear ports**
Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports**
Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

**ExpressCard**
None

**PCle Mini Card**
One mSATA slot

**PCle WLAN**
Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1

**Bluetooth**
Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

**Ethernet**
One gigabit ethernet port, Intel i217-LM (Clarklake), Wake on LAN™

**Audio support**
High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

**Intel AMT**
Intel Active Management Technology 9.0 (Intel AMT 9.0)

**Security chip**
Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**
Preferred Pro USB Keyboard (USB connector), Lenovo® logo

**Mouse**
Enhanced Optical USB Mouse, black, Lenovo logo

**Power supply**
150 watts, autosensing, 85% PSU

**Machine**
- Business black color
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

Non-touch model(s) with monitor stand:
- (WxDxH) 22.4" x 9.7" x 17.4" to 21.7"; 568mm X 247mm X 441.2mm high to 551.2mm
- 25.5 lb (11.58 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

Non-touch model(s) with frame stand:
- (WxDxH) 22.4" x 3.6" x 17.6"; 568mm X 92.5mm X 447.3 mm
- 21.3 lb (9.68 kg) in maximum configuration
- Adjusted stand (between 10° and 45°)

**Limited Warranty**
1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information
US model(s) announced August 20, 2013
## ThinkCentre M93z (10AF) - TopSeller

### Product Specifications Reference (PSREF)

#### Positioning

**Premium All-In-One PC for the enterprise**

- **Processor:** Intel Core™ i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Memory:** 16GB max, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 3840x2160 (DisplayPort) @ 60Hz
- **Graphics:** Intel HD Graphics 6600, 1600MHz DDR3 memory controller
- **Display:** 23.0” (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, digital microphone, LED indicator, physical switch on/off
- **Light sensor:** Optional ambient light sensor
- **Multi-touch:** None
- **Camera:** Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array microphones
- **Mouse:** Enhanced Optical USB Mouse, black, Lenovo logo
- **Keyboard:** Preferred Pro USB Keyboard (USB connector), Lenovo™ logo Enhanced Optical USB Mouse, black, Lenovo logo

### Graphics

- **Intel HD Graphics 6600 in processor:** uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 3840x2160 (DisplayPort) @ 60Hz

### Display

- **Maximum resolution:** 3840x2160 (DisplayPort) @ 60Hz

### Controls

- **Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button**

### Disk

- **Some:** SATA 6.0Gb/s, 3.5” Wide, 7200 rpm
- **Some:** 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5” wide
- **Some:** Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5” Wide

### Optical

- **Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified**

### Chassis

- **Chipset:** Intel Q87 Express Chipset
- **Security chip:** Trusted Platform Module (TPM 1.2-compliant)

### Power supply

- **150 watts, autosensing, 85% PSI**

### Machine

- **Business black color**
- **Toolless back cover, stand removal**
- **Toolless disk, optical drive, memory removal**
- **Support VESA mount (100mm)**
- **Non-touch model(s) with frame stand:**
  - (WxDxH) 22.4” X 3.6” X 17.6”, 568mm X 92.5mm X 447.3 mm
  - 21.3 lb (9.68 kg) in maximum configuration
  - Adjustable stand (between 10° and 45°)
- **Non-touch model(s) with monitor stand:**
  - (WxDxH) 22.4” X 9.7” X 17.4” to 21.7”, 568mm X 247mm X 441.2mm to 551.2mm
  - 25.6 lb (11.58 kg) in maximum configuration
  - Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

### Limited Warranty

- **3-years, limited onsite service, 8 am-5 pm, Mon - Fri**

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See footnotes for important warranty information

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US model(s) announced July 9, 2013 or September 10, 2013

(MPHS1-10) September 2013
### Processor
- **Intel Core i3-4130** (4 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- **Intel Core i5-4590S** (2 cores / 4 threads, 3.0GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Intel Core i7-4770S** (2 cores / 4 threads, 3.5GHz, 8MB cache), Intel HD Graphics 620, 1600MHz DDR3 memory controller
- **Intel Core i5-4590S** (4 cores / 4 threads, 3.0GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Graphics
- Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX 11, external digital monitor support via DisplayPort, supports dual independent display; Maximum resolution: 3840x2160 (DisplayPort)@60Hz
- Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Memory
- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (nocketbook)

### Display
- 23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, anti-glare, work as standalone monitor via VGA-in connector

### Controls
- Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button

### Chipset
- Intel i7-4770S Processor (4 cores / 4 threads, 3.1GHz, 8MB cache), Intel HD Graphics 620, 1600MHz DDR3 memory controller
- Intel i7-4770S Processor (4 cores / 4 threads, 3.1GHz, 8MB cache), Intel HD Graphics 620, 1600MHz DDR3 memory controller

### Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

### Machine
- Business black color
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)
- Non-touch model(s) with frame stand:
  - (WxDxH) 22.4" X 3.6" X 17.6"; 568mm X 92.5mm X 447.3 mm
  - 21.3 lb (9.68 kg) in maximum configuration
  - Adjustable stand (between 10° and 45°)
- Non-touch model(s) with monitor stand:
  - (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 566mm X 247mm X 441.2mm to 551.2mm
  - 25.5 lb (11.58 kg) in maximum configuration
  - Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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**Preloaded operating system**
- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Ready to install applications (only some listed)**
- Rescue and Recovery™
- Password Manager

**Preloaded applications (only some listed)**
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Adobe Reader™
- Skype™
- Microsoft Office preloaded:
  - purchase a product key to activate
  - Cyberlink PowerDVD (DVD±RW, DVD)
  - Cyberlink Power2Go (DVD±RW)
  - Cyberlink PowerProducer (DVD±RW)
  - Evernote
  - Intel AppUp
  - Lenovo Solutions for Small Business
  - Nitro Pro

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See footnotes for important warranty information

©Lenovo (MPSH1-15) December 2014
## ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - 1-year onsite

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<th>Graphics</th>
<th>PClie Mini Card</th>
<th>Media reader</th>
<th>Light sensor</th>
<th>Serial &amp; PS/2</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Keyboard/ Mouse</th>
<th>Intel VPro</th>
<th>Global</th>
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<td>Intel® Pentium® G3230 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller</td>
<td>Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11 external digital monitor support via DisplayPort™, supports dual independent display; Max resolution: 3840x2160 (DP) @60Hz (HDCP 0x00); 2560x1600 (DP) @60Hz (Intel HD) 23.8&quot; (594.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (∓89°), LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector</td>
<td>Processor in LGA1150 socket</td>
<td>16GB max, PC3-12800 1600MHz DDR3®, two 204-pin SODIMM sockets (notebook)</td>
<td>*System automatically clocks down for processors with 1333MHz memory controller</td>
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<td>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</td>
<td>Processor in LGA1150 socket</td>
<td>16GB max, PC3-12800 1600MHz DDR3®, two 204-pin SODIMM sockets (notebook)</td>
<td>*System automatically clocks down for processors with 1333MHz memory controller</td>
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</table>

### Graphics
- Intel HD Graphics or Intel Graphics 4600 in processor, uses main memory, DirectX® 11 and OpenGL® 3.2 external digital monitor support via DisplayPort™, supports dual independent display; Max resolution: 3840x2160 (DP) @60Hz (HDCP 0x00); 2560x1600 (DP) @60Hz (Intel HD) 23.8" (594.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (∓89°), LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector.

### Display
- 23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (∓89°), LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector.

### Rear ports
- Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), digital microphone, LED indicator, physical switch on/off.

### Onboard SATA
- Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar.

### Memory
- 16GB max, PC3-12800 1600MHz DDR3®, two 204-pin SODIMM sockets (notebook).

### Controls
- Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button.

### Security
- Security chip (see information on left).
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis).
- Power-on password.
- Administrator password.
- Hard disk password.
- Boot sequence control.
- Boot without keyboard and mouse.
- USB port disablement.
- Chassis intrusion switch on selected model(s).

### Machine
- Business black color.
- Tooless back cover, stand removal.
- Tooless disk, optical drive, memory removal.
- Support VESA mount (100mm).

### Machine (multi-touch model(s) with frame stand):
- (WxDxH) 22.4" X 3.7" X 17.4"; 568mm X 93.1mm X 441.2mm
- 24.7 lb (11.22 kg) in maximum configuration
- 28.9 lb (13.12 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

### Machine (multi-touch model(s) with monitor stand):
- (WxDxH) 22.4" X 9.7" X 17.4"; 568mm X 247mm X 441.2mm to 551.2mm
- 24.7 lb (11.22 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

### Limited Warranty
- 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available.

**See footnotes for important warranty information**

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(MPHS1-13) September 2013
ThinkCentre M93z (10AD) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

Positioning
Premium All-In-One PC for the enterprise

Processor
- Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Graphics
- Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display;
  Maximum resolution: 3840x2160 (DisplayPort) @60Hz
- Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

Light sensor
- Optional ambient light sensor

Multi-touch
- Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch

Camera
- Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

Controls
- Microphone mute (OSD exit), monitor mode switch (OSD enter),
- volume up/down buttons (OSD left/right buttons), and power button

Disk
- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical drive
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

Onboard SATA
- Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

Media reader
- Optional 11-in-1 media card reader

Chipset
- Intel Q87 Express Chipset

Rear ports
- Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (pin-9), optional keyboard (PS/2), optional mouse (PS/2)

Side ports
- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm),
- one headphone / microphone combo jack (stereo, 3.5mm)

ExpressCard
- None

mSATA
- One mSATA slot

PCle Mini Card
- One PCI Express™ Mini Card slot

PCle WLAN
- Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
- Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2

Bluetooth
- Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

Ethernet
- One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

Audio support
- High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

Intel AMT
- Intel Active Management Technology 9.0 (Intel AMT 9.0)

Security chip
- Trusted Platform Module (TPM 1.2-compliant)

Keyboard
- Preferred Pro USB Keyboard (USB connector), Lenovo® logo
- Ultrasmall Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse
- Enhanced Optical USB Mouse, black, Lenovo logo
- Ultrasmall Plus Wireless Mouse (2.4GHz via USB receiver), black

Power supply
- 150 watts, autosensing, 85%, PSU

Machine
- Business black color
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

Multi-touch model(s) with frame stand:
- (WxDxH) 22.4" x 3.7" x 17.6"; 558mm x 93.1mm x 447.1mm
- 24.7 lb (11.22 kg) in maximum configuration
- Adjustable stand (between 10° and 45°)

Multi-touch model(s) with monitor stand:
- (WxDxH) 22.4" x 9.7" x 17.4" to 21.7"; 568mm x 247mm x 441.2mm to 551.2mm
- 28.9 lb (13.12 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information
US model(s) announced July 9, 2013 or August 13, 2013

Preloaded operating system
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD+RW, DVD)
- Cyberlink PowerDVD (DVD+RW)
- Cyberlink PowerProducer (DVD+RW)
- Evernote
- Intel AppUp®
- Lenovo Solutions for Small Business
- Nitro Pro

Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating
- ENERGY STAR® 6.0-compliant
- TCO Certified Edge
- TÜV Green Mark
- ULE Gold
- EuP 2013
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage Technologies
- For compatible accessories, please go to TC-AQP sheet;
- For Lenovo service upgrade options, please go to S-TC sheet
ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - II

Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCI Express</th>
<th>Mini Card</th>
<th>LAN</th>
<th>Media reader</th>
<th>Light sensor</th>
<th>Serial</th>
<th>PSU</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Keyboard/ Mouse</th>
<th>Intel vPro</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
</table>
| 10AD001JUS | i3-4130 | 4GBx1 | 2.0M HD 4400 N2230 None None None None Monitor USB None None Win7 Pro64 DG 08/20/13
| 10AD001JUS | i3-4130 | 2.0M HD 4400 N2230 None None None None Frame USB None None Win7 Pro64 DG 08/20/13
| 10AD002JUS | i5-4570S | 4GBx1 | 2.0M HD 4600 N235 None None None None Monitor USB vPro None Win7 Pro64 DG 11/12/13
| 10AD002JUS | i5-4570S | 4GBx1 | 2.0M HD 4600 N235 None None None None Frame USB vPro None Win7 Pro64 DG 11/12/13

Positioning

Premium All-In-One PC for the enterprise

Implementation

Processor: Intel Core i3-4130 (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller

Memory: 16GB max, external digital monitor support via DisplayPort, supports dual independent display;

Maximum resolution: 3840x2160 (DisplayPort) @60Hz

Display: 23.0" (584.2mm) Full HD 1600Hz (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 100:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

Light sensor: Optional ambient light sensor

Multi-touch: Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch

Camera: Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

Controls: Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button

Disk: Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Optical: DVD burner, SATA 1.5Gb/s, 12.7mm thick, fixed, not removable

Onboard SATA: Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

Media reader: Optional 11-in-1 media card reader

Chipset: Intel Q87 Express Chipset

Rear ports: Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

Side ports: Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

ExpressCard mSATA: One mSATA slot

PCle Mini Card: One PCI Express Mini Card slot

PCle WLAN: Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

Some: 11a/b/g/n wireless, PCle Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2

Bluetothon: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

Ethernet: One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN

Audio support: High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio® v2 certified, Microsoft Lync™ certified

Intel AMT: Intel Active Management Technology 9.0 (Intel AMT 9.0)

Security chip: Trusted Platform Module (TPM 1.2-compliant)

Keyboard: Preferred USB Keyboard (USB connector), Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo

Power supply: 150 watts, auto-sensing, 85% PSU

Machine: • Business black color

• Toolless back cover, stand removal

• Toolless disk, optical drive, memory removal

• Support VESA mount (100mm) Multi-touch model(s) with frame stand:

  

  (WxDxH) 22.4" X 3.7" X 17.6"; 566mm X 93.1mm X 447.3 mm

  24.7 lb (11.22 kg) in maximum configuration

  Adjustable stand (between 10° and 45°)

Multi-touch model(s) with monitor stand:

  

  (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 566mm X 247mm X 441.2mm to 551.2mm

  28.9 lb (13.12 kg) in maximum configuration

  Tilt: 45° back, 5° forward; Lift: 110mm; Swivel: +/-45°

Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications (only some listed)

• Rescue and Recovery™

• Password Manager

Preloaded applications (only some listed)

• ThinkVantage™ Product Recovery

• ThinkVantage System Update

• ThinkVantage Communication Utility

• ThinkVantage Device Experience

• ThinkVantage AutoLock

• Desktop Power Manager

• View Management Utility

• Lenovo Cloud Storage by SugarSync

• Lenovo Solution Center

• Lenovo Message Center

• Norton™ Internet Security

(30 days of virus definitions)

• Adobe® Reader®

• Skype™

• Microsoft Office preloaded; purchase a product key to activate

• Cyberlink PowerDVR (DVR±RW, DVD)

• Cyberlink Power2Go (DVR±RW)

• Cyberlink PowerProducer (DVD±RW)

• Evernote

• Intel AppUp

• Lenovo Solutions for Small Business

• Nitro Pro

Security

• Security chip (see information on left)

• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)

• Power-on password

• Administrator password

• Hard disk password

• Boot sequence control

• Boot without keyboard and mouse

• USB port disablement

• Chassis intrusion switch on selected model(s)

See footnotes for important warranty information

©Lenovo (MPSH-12) November 2013

US model(s) announced August 20, 2013 or November 12, 2013
## ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - III

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Processor Memory</th>
<th>Disk</th>
<th>Graphics</th>
<th>PClé Mini Card</th>
<th>Memory Type</th>
<th>Light &amp; Sensor</th>
<th>Media Reader</th>
<th>Chassis Intrusion Standby Type</th>
<th>Key-Board/ Mouse</th>
<th>Intel vPro</th>
<th>Global Preload</th>
<th>Ann date (mm/dd/yy)</th>
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</table>

### Preloaded operating system
- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)
- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

### Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

### See footnotes for important warranty information

US model(s) announced January 21, 2014

©Lenovo

(MPHS1-18) January 2014
### Product Specifications Reference (PSREF)

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<th>Processor</th>
<th>Memory</th>
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<th>Graphics</th>
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<th>Serial &amp; PS/2</th>
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<th>Stand type</th>
<th>Keyboard/ Mouse</th>
<th>Intel vPro</th>
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</table>

### Preloaded operating system
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage Audio Permissions
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded
- purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

### Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

- EPEAT® Gold rating
- ENERGY STAR® 6.0-compliant
- TCO Certified Edge
- TUV Green Mark
- ULE Gold
- EuP 2013
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet
ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - V

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Media reader</th>
<th>Light sensor</th>
<th>Serial &amp; IP/S2 port</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Keyboard/ Mouse</th>
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<tr>
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<td>USB vPro</td>
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<td>Win7 P64 DG Win8.1 10/14</td>
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</table>

Positioning
- Premium All-In-One PC for the enterprise

Processor
- Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache)
- Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- Intel Core i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache)
- Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i7-4790S Processor (4 cores / 8 threads, 3.4GHz, 8MB cache)
- Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Implementation
- Processor in LGA1150 socket

Memory
- 16GB max.
- PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

Graphics
- Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX 11.
- external digital monitor support via DisplayPort, supports dual independent display;
  - Maximum resolution: 3840x2160 (DisplayPort) @ 60Hz

Display
- 23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

Light sensor
- Optional ambient light sensor

Multi-touch
- Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
- Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

Controls
- Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button

Disk
- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide

Optical
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
- DVD±RW (±R/-RW), 8x, with write speed
- 9mm, 1GB/s, 8x, with write speed
- 2x, 24x, 12x, 8x, 8x, 48x, 24x, 12x, 8x, 8x

Onboard SATA
- Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

Media reader
- Optional 11-in-1 media card reader

Chipset
- Intel Q87 Express Chipset

Rear ports
- Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

Side ports
- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

ExpressCard
- None

PCIe Mini Card
- One mSATA slot

PCIe WLAN
- One PCI Express Mini Card slot

Ethernet
- One gigabit ethernet port, Intel I217-LM (Clarksville), Wake on LAN

Audio support
- High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2)
- Dolby Advanced Audio v2 certified

Intel AMT
- Intel Active Management Technology 9.0 (Intel AMT 9.0)

Security chip
- Trusted Platform Module (TPM 1.2-compliant)

Keyboard
- Preferred Pro USB Keyboard (USB connector), Lenovo® logo

Mouse
- Enhanced Optical USB Mouse, black, Lenovo logo

Power supply
- 150 watts, autoseizing, 85% PSU

Machine
- Business black color
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)
- Multi-touch model(s) with frame stand:
  - (Width x Depth) 22.4” x 3.7” x 17.6”, 586mm x 93.1mm x 447.3 mm
  - 24.7 lb (11.22 kg) in maximum configuration
  - Adjustable stand (between 10° and 45°)
- Multi-touch model(s) with monitor stand:
  - (Width x Depth) 22.4” x 9.7” x 17.4” to 21.7”, 586mm x 247mm x 441.2mm to 551.2mm
  - 28.9 lb (13.12 kg) in maximum configuration
  - Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage
  - excluding holidays, next business day response time / service upgrades available

Preloaded operating system
- Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)
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- Password Manager

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- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable;
  - Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

Supports ThinkVantage Technologies
- EPEAT® Gold rating
- ENERGY STAR® 6.0-compliant
- TCO Certified Edge
- TUV Green Mark
- ULE Gold
- EuP 2013
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

For compatible accessories, please go to TC-AQP sheet.
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

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(MPH51-20) October 2014
**ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Windows 8**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>WLAN</th>
<th>Media reader</th>
<th>Light sensor</th>
<th>Serial &amp; PS/2 port</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Keyboard/ Mouse</th>
<th>Intel vPro</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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<tr>
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<td>Monitor</td>
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<td>USB vPro</td>
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<td>Win8 Pro64</td>
<td>07/09/13</td>
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<tr>
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<td>None</td>
<td>Monitor</td>
<td>None</td>
<td>USB None</td>
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<td>Win8 Pro64</td>
<td>07/23/13</td>
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<td>None</td>
<td>USB None</td>
<td>None</td>
<td>Win8 Pro64</td>
<td>07/23/13</td>
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<tr>
<td>10AD0007US</td>
<td>i5-4570S</td>
<td>4GBx1</td>
<td>HD 4600</td>
<td>Media Sensor</td>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>Monitor</td>
<td>None</td>
<td>USB None</td>
<td>None</td>
<td>Win8 Pro64</td>
<td>07/09/13</td>
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<tr>
<td>10AD0006US</td>
<td>i7-4770S</td>
<td>8GBx1</td>
<td>HD 4600</td>
<td>Media None</td>
<td>None</td>
<td>None</td>
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<td>None</td>
<td>Monitor</td>
<td>None</td>
<td>USB None</td>
<td>None</td>
<td>Win8 Pro64</td>
<td>07/23/13</td>
<td></td>
</tr>
</tbody>
</table>

### Positioning
- **Premium All-In-One PC for the enterprise**

### Processor
- Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 2.9GHz, 6MB cache)
- Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i5-4670S Processor (4 cores / 4 threads, 3.4GHz, 3MB cache)
- Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i7-4770S Processor (4 cores / 8 threads, 3.2GHz, 6MB cache)
- Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Implementation
- Processor in LGA1150 socket

### Memory
- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

### Graphics
- Intel HD Graphics 4400 or 4600 in processor, uses main memory, DirectX 11, external digital monitor support via DisplayPort, supports dual independent display; Maximum resolution: 3840x2160 (DisplayPort) @60Hz

### Display
- 23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

### Light sensor
- Optional ambient light sensor

### Multi-touch Camera
- Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch

### Controls
- Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button

### Disk
- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- Some: 500GB (5400 rpm) hybrid disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

### Optical Drive
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

### Onboard SATA Media reader
- Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

### Chipset
- Intel Q87 Express Chipset

### Rear ports
- Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

### Side ports
- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### ExpressCard
- None

### PCiE Mini Card
- One PCI Express® Mini Card slot

### PCiE WLAN
- Some: 11b/g/n wireless, PCI Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
- Some: 11a/b/g/n wireless, PCI Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2

### Bluetooth
- Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

### Ethernet
- One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN™

### Audio support
- Dolby® Advanced Audio® v2 certified, Microsoft Lync™ certified
- Intel Active Management Technology 9.0 (Intel AMT 9.0)
- Trusted Platform Module (TPM 1.2-compliant)

### Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

### Machine
- Business black color
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

**Preloaded operating system**
- Windows® 8 Pro 64-bit

**Web install applications** (only some listed)
- Password Manager
- V-Select
- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security
- Microsoft Office preloaded;
- purchase a product key to activate
- Cyberlink PowerDVD (DVD+RW, DVD)
- Cyberlink Power2Go (DVD+RW)
- Cyberlink PowerProducer (DVD+RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Norton Internet Security
- Norton AntiVirus
- Norton Security
- Norton Security Essential
- Norton Security Deluxe
- Norton Security Premier
- Norton Security with Access
- Norton Security with Backup

---

**Lenovo Accessories**
- For compatible accessories, please go to TC-AQP sheet;
- For Lenovo service upgrade options, please go to S-TC sheet

---

**Certifications**
- EPEAT® Gold rating
- ENERGY STAR® 6.0-compliant
- TCO Certified Edge
- TUV Green Mark
- ULE Gold
- EuP 2013
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- Supports ThinkVantage Technologies

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See footnotes for important warranty information.

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US model(s) announced July 9, 2013, July 23, 2013, August 20, 2013

(MPHS1-6) September 2013
<table>
<thead>
<tr>
<th>Positioning</th>
<th>Premium All-In-One PC for the enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor Implementation</td>
<td>Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</td>
</tr>
<tr>
<td>Memory</td>
<td>16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel HD Graphics 4400 or 4600 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 3840x2160 (DisplayPort) @60Hz</td>
</tr>
<tr>
<td>Display</td>
<td>23.0&quot; (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector</td>
</tr>
<tr>
<td>Light sensor</td>
<td>Optional ambient light sensor</td>
</tr>
<tr>
<td>Multi-touch Camera</td>
<td>Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch</td>
</tr>
<tr>
<td>Camera</td>
<td>Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off</td>
</tr>
<tr>
<td>Controls</td>
<td>Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button</td>
</tr>
<tr>
<td>Disk</td>
<td>Some: SATA 6.0Gb/s, 3.5&quot; Wide, 7200 rpm</td>
</tr>
<tr>
<td>Optical Onboard SATA</td>
<td>Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar</td>
</tr>
<tr>
<td>Media reader</td>
<td>Optional 11-in-1 media card reader</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel Q87 Express Chipset</td>
</tr>
<tr>
<td>Rear ports</td>
<td>Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)</td>
</tr>
<tr>
<td>Side ports</td>
<td>Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)</td>
</tr>
<tr>
<td>ExpressCard mSATA</td>
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<tr>
<td>mSATA</td>
<td>One mSATA slot</td>
</tr>
<tr>
<td>PCIe Mini Card</td>
<td>One PCI Express® Mini Card slot</td>
</tr>
<tr>
<td>PCIe WLAN</td>
<td>Some: 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2</td>
</tr>
<tr>
<td>Bluetooth Ethernet</td>
<td>Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</td>
</tr>
<tr>
<td>Audio support</td>
<td>One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN™, Advanced Audio, Dolby® v2 certified, Microsoft Lync™ certified</td>
</tr>
<tr>
<td>Intel AMT Security chip</td>
<td>Intel Active Management Technology 9.0 (Intel AMT 9.0)</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Some: Preferred Pro USB Keyboard (USB connector), Lenovo™ logo</td>
</tr>
<tr>
<td>Mouse</td>
<td>Some: Ultrasonic Plus Wireless Keyboard (2.4GHz via USB receiver), black</td>
</tr>
<tr>
<td>Power supply</td>
<td>150 watts, autosensing, 85% PSU</td>
</tr>
<tr>
<td>Machine</td>
<td>Business black color</td>
</tr>
<tr>
<td></td>
<td>Toolless back cover, stand removal</td>
</tr>
<tr>
<td></td>
<td>Toolless disc, optical drive, memory removal</td>
</tr>
<tr>
<td></td>
<td>Support VESA mount (100mm)</td>
</tr>
</tbody>
</table>
|                      | Multi-touch model(s) with frame stand:  
|                      | - (WxDxH) 22.4" X 3.7" X 17.6"; 568mm x 93.1mm x 447.3 mm  
|                      | - 24.7 lb (11.22 kg) in maximum configuration  
|                      | - Adjustable stand (between 10° and 45°)  
|                      | Multi-touch model(s) with monitor stand:  
|                      | - (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm  
|                      | - 28.9 lb (13.12 kg) in maximum configuration  
|                      | - Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45° |
| Limited Warranty      | 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available |

Preloaded operating system  
Windows® 8.1 Pro 64-bit  

Web install applications (only some listed)  
- Password Manager  
- ThinkVantage System Update  
- ThinkVantage AutoLock  
- Desktop Power Manager  
- Lenovo Solution Center  
- Lenovo Support  
- Lenovo Companion  
- Norton Internet Security (30 days of virus definitions)  
- Skype®  
- Microsoft Office preloaded; purchase a product key to activate  
- Cyberlink PowerDVD (DVD±RW, DVD)  
- Cyberlink Power2Go (DVD±RW)  
- Cyberlink PowerProducer (DVD±RW)  
- Evernote®  
- Intel AppUp  
- Lenovo Solutions for Small Business  
- Nitro Pro  
- AccuWeather  
- Norton™ Studio  
- Pokki  
- Hightail

Security  
- Security chip (see information on left)  
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)  
- Power-on password  
- Administrator password  
- Hard disk password  
- Boot sequence control  
- Boot without keyboard and mouse  
- USB port disablement  
- Chassis intrusion switch on selected model(s)

EPEAT™ Gold rating  
ENERGY STAR® 6.0-compliant  
TCO Certified Edge  
TUV Green Mark  
ULE Gold  
EuP 2013  
Cisco EnergyWise compatible  
GREENGUARD® certified  
RoHS-compliant

Supports ThinkVantage Technologies  
For compatible accessories, please go to TC-AQP sheet;  
For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information  
©Lenovo  
US model(s) announced January 21, 2014  
(MPHS1-17) January 2014
See footnotes for important warranty information.
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<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
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<th>Mini Card</th>
<th>WLAN</th>
<th>Media reader</th>
<th>Light sensor</th>
<th>Serial &amp; PS/2</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Key-board/ Mouse</th>
<th>Intel</th>
<th>Intel VPro</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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**Positioning**

**Processor**

Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller

**Intel Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),** Intel HD Graphics 4400, 1600MHz DDR3 memory controller

**Intel Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache),** Intel HD Graphics 4400, 1600MHz DDR3 memory controller

**Intel Core™ i5-4590S Processor (2 cores / 2 threads, 3.2GHz, 6MB cache),** Intel HD Graphics 4400, 1600MHz DDR3 memory controller

**Intel Core™ i5-4590S Processor (2 cores / 4 threads, 3.7GHz, 6MB cache),** Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Intel Core™ i7-4790S Processor (4 cores / 8 threads, 3.5GHz, 8MB cache),** Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Processor in LGA1150 socket**

**Memory**

16GB max, PC3-12800 1600MHz DDR3*, two 204-pin SODIMM sockets (notebook)

"System automatically clocks down for processors with 1333MHz memory controller"

**Graphics**

Intel HD Graphics or HD Graphics 4400 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Max resolution: 3840x2160 (DP) @60Hz [HD 4x00]; 2560x1600 (DP) @60Hz [Intel HD] 23.0” (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

**Display**

Digital microphone, LED indicator, physical switch on/off

**Multi-touch**

None

**Camera**

Optional ambient light sensor

**Light sensor**

Optional ambient light sensor

**Rear ports**

Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**ExpressCard**

One mSATA slot

**PCIe Mini Card**

One PCI Express® Mini Card slot

**PCIe WLAN**

Some: 11n/b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 105, 1x1

Some: 11n/b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + BT, 2x2

Some: 11n/b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + BT, 2x2

**Ethernet**

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

**Audio support**

High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2). Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

**Intel AMT**

Intel Active Management Technology 9.0 (Intel AMT 8.0)

**Security**

Security chip (see information on left)

Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)

Power-on password

Administrator password

Hard disk password

Boot sequence control

Boot without keyboard and mouse

USB port disablement

Chassis intrusion switch on selected model(s)

**Chipset**

Intel Q87 Express Chipset

**Optical Drive**

DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

**Onboard SATA**

Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

**Media reader**

Optional 11-in-1 media card reader

**Chipset**

Intel Q87 Express Chipset

**Rear ports**

Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Power supply**

150 watts, autosensing, 85% PSU

**Machine**

Business black color

Touchless back cover, stand removal

Touchless disk, optical drive, memory removal

Support VESA mount (100mm)

Non-touch model(s) with frame stand:

(W(XxH)22.4” X 3.6” X 17.6”: 568mm X 92.5mm X 447.3 mm

21.3 lb (9.68 kg) in maximum configuration

Adjustable stand (between 10° and 45°)

Non-touch model(s) with monitor stand:

(W(XxH)22.4” X 9.7” X 17.4” to 21.7”: 568mm X 247mm X 441.2mm to 511.2mm

25.5 lb (11.5 kg) in maximum configuration

Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

**Limited Warranty**

3 years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Technologies
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Cyberlink PowerDVD (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Windows 8.1
- Lenovo Solutions for Small Business
- Nitro Pro

Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

See footnotes for important warranty information

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(MPHS1-14) January 2015
### ThinkCentre M93z (10AE) - GMP

#### Product Specifications Reference (PSREF)

**Preloaded operating system**

- **Some:** Windows® 7 Professional 64-bit preinstalled through downgrade rights in Windows 8 Pro 64-bit
- **Some:** Windows® 7 Professional 64-bit preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

**Ready to install applications** (only some listed)

- Rescue and Recovery™
- Password Manager

**Preloaded applications** (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Assistant
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD+R)
- Cyberlink Power2Go (DVD±RW, DVD+R)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

### Operating System

- Windows® 7 Professional 64-bit

### Processor

- **Premium All-In-One PC for the enterprise**
- **Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),**
  - Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600,
  - integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Intel® Core™ i5-4590S Processor (4 cores / 4 threads, 3.3GHz, 6MB cache),**
  - Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 4600,
  - integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

### Graphics

- **Intel HD Graphics 4600** in processor, uses main memory, DirectX® 11,
- external digital monitor support via DisplayPort™, supports dual independent display;
- **Maximum resolution:** 3840x2160 (DisplayPort)@60Hz
- **Display:**
  - 23.8" (594.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare,
  - work as standalone monitor via VGA-in connector
- **Light sensor:** Optional ambient light sensor
- **Multi-touch:** None
- **Camera:** Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
- **Controls:** Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button

### Disk

- **Some:** SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- **Optical DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable**
- **Onboard SATA:**
  - Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar
- **Media reader:** Optional 11-1 media card reader

### Chipset

- **Intel Q87 Express Chipset**
- **Rear ports:**
  - Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optical keyboard (PS/2), optional mouse (PS/2)
- **Side ports:**
  - Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
- **ExpressCard mSATA:**
  - One mSATA slot
- **PCle Mini Card:**
  - One PCI Express® Mini Card slot
- **PCle WLAN:**
  - Some: 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
  - Some: 11a/b/g/n wireless, PCle Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
  - Some: 11b/g wireless, PCle Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
  - Some: 11ac/a/b/g/n wireless, PCle Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2
- **Bluetooth:**
  - Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
- **Ethernet Audio support:**
  - One gigabit ethernet port, Intel i217-LM (Clarkville), Wake on LAN™
  - Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified
- **Intel AMT Security chip:**
  - Intel Active Management Technology 9.0 (Intel AMT 9.0)

### Security

- **Security chip (see information on left)**
- **Security chip (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)**
- **Power-on password**
- **Administrator password**
- **Hard disk password**
- **Boot sequence control**
- **Boot without keyboard and mouse**
- **USB port disablement**
- **Chassis intrusion switch on selected model(s)**

### Machine

- **Business black color**
- **Touchless back cover, stand removal**
- **Touchless disk, optical drive, memory removal**
- **Support VESA mount (100mm)**

**Non-touch model(s) with frame stand:**

- **(WxDxH) 22.4" X 8.7" X 17.4" to 21.7", 568mm X 247mm X 441.2mm to 551.2mm**
- **25.5 lb (11.58 kg) in maximum configuration**
- **Tilt: 45° back, 5° forward, Lift: 110mm; Swivel: +/-90°**

**Non-touch model(s) with stand model:**

- **(WxDxH) 22.4" X 8.7" X 17.4" to 21.7", 568mm X 247mm X 441.2mm to 551.2mm**
- **25.5 lb (11.58 kg) in maximum configuration**
- **Tilt: 45° back, 5° forward, Lift: 110mm; Swivel: +/-45°**

### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

See footnotes for important warranty information

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(MPHS1-8) December 2014
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor/ Memory (mB)/ Graphics/ Disk/ Mini Card/ LAN/ Light sensor/ Serial/ Chassis intrusion switch/ Stand type</th>
<th>Keyboard/ Mouse/ Intel vPro/ Global (G) GMP (P)</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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</thead>
<tbody>
<tr>
<td>10AE001EUS</td>
<td>i5-4570S 4GBx1 2.0M Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology</td>
<td>vPro G P</td>
<td>Win8 Pro64</td>
<td>07/09/13</td>
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<td>vPro G P</td>
<td>Win8.1 Pro64</td>
<td>02/25/14</td>
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</table>

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
- 3-year limited warranty

### Positioning
Premium All-In-One PC for the enterprise

### Processor
**Intel Core i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)**, Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

### Implementation
Processor in LGA1150 socket

### Memory
16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

### Graphics
Intel HD Graphics 4600 in processor, uses main memory, DirectX 11, external digital monitor support via DisplayPort, supports dual independent display; Maximum resolution: 3840x2160 (DisplayPort) @60Hz

### Display
23.0" (584.2nm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89̊), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

### Light sensor
Optional ambient light sensor

### Multi-touch Camera
None

### Camera
Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

### Controls
Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button

### Disk
Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

### Optical
DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

### Onboard SATA
Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

### Media reader
Optional 11-in-1 media card reader

### Chipset
**Intel Q87 Express Chipset**

### Rear ports
Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

### Side ports
Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### ExpressCard
None

### PCIe Mini Card/ mSATA
One mSATA slot

### PCIe WLAN
One PCI Express Mini Card slot

### Bluetooth
Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

### Ethernet
One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN

### Audio support
High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby Advanced Audio v2 certified, Microsoft Lync certified

### Intel AMT
Intel Active Management Technology 9.0 (Intel AMT 9.0)

### Security chip
Trusted Platform Module (TPM 1.2-compliant)

### Keyboard/ Mouse
Preferred Pro USB Keyboard (USB connector), Lenovo 7 logo mouse

### Power supply
150 watts, autosensing, 85% PSU

### Machine
Business black color
- Tooless back cover, stand removal
- Tooless disk, optical drive, memory removal
- Support VESA mount (100mm)

**Non-touch model(s) with frame stand:**
- (WxDxH) 22.4" X 3.6" X 17.6"; 566mm X 92.5mm X 447.3 mm
- 21.3 lb (9.68 kg) in maximum configuration
- Adjustable stand (between 10° and 45°)

**Non-touch model(s) with monitor stand:**
- (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 566mm X 247mm X 441.2mm to 551.2mm
- 25.1 lb (11.58 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

See footnotes for important warranty information

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US model(s) announced July 9, 2013 or February 25, 2014

(MPHS1-9) February 2013
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<tr>
<th>Type-model</th>
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<th>Graphics</th>
<th>Mini Card</th>
<th>PCA</th>
<th>Light sensor</th>
<th>Serial</th>
<th>Chassis</th>
<th>Stand</th>
<th>Key-board/Intel</th>
<th>Intel</th>
<th>VPro</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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<td>vPro</td>
<td>None</td>
<td>Win7 Pro64 DG</td>
<td>07/09/13</td>
</tr>
</tbody>
</table>

**Preloaded operating system**
Windows 7 Professional 64-bit preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Ready to install applications** (only some listed)
- Rescue and Recovery™
- Password Manager

**Preloaded applications** (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader™
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD±R)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

**Security**
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

**Machine**
- Business black color
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)
- Multi-touch model(s) with frame stand:
  - (WxDxH) 22.4” x 3.7” x 17.6”
  - 24.7 lbs (11.22 kg) in maximum configuration
  - Adjustable stand (between 10° and 45°)
- Multi-touch model(s) with monitor stand:
  - (WxDxH) 22.4” x 9.7” x 17.4” to 21.7”; 568mm X 247mm X 441.2mm to 551.2mm
  - 28.9 lbs (13.12 kg) in maximum configuration
  - Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

**Limited Warranty**
- 3-years, limited onsite service.
- 3 years, full service warranty. For compatible accessories, please go to TC-AQP sheet.
- For Lenovo service upgrade options, please go to S-TC sheet
## ThinkCentre M93z (10AC) - Multi-touch - II

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory (megapixels)</th>
<th>Disk SATA GB rpm</th>
<th>Graphics</th>
<th>PCle Mini Card VL/WLAN</th>
<th>Media reader</th>
<th>Light &amp; Serial PS/2 port</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Key-board/ Mouse</th>
<th>Intel vPro</th>
<th>Global</th>
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<th>Ann date (mm/dd/yy)</th>
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<tr>
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<td>None</td>
<td>Win7 Pro64 DG 08/20/13</td>
</tr>
</tbody>
</table>

#### Positioning

**Premium All-In-One PC for the enterprise**

#### Processor

- **Intel Core i3-4130 Processor** (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Intel Core™ i3-4130 Processor** (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 4400, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

#### Implementation

Processor in LGA1150 socket

#### Memory

16GB max, PCIe 3.0 x16 slot, primary 2400MHz DDR3 or 2133MHz DDR4, maximum 16GB DDR4, system automatically clocks down for processors with 1333MHz memory controller

### Graphics

- **Intel HD Graphics** or **Intel Graphics 4400** in processor, uses main memory, DirectX 11, external digital monitor support via DisplayPort™, supports dual independent display, **Max resolution**: 3840x2160 (DP) @ 60Hz (HD 4x00); 2560x1600 (DP) @ 60Hz [Intel HD]
- **23.0" (58.42mm) Full HD 1080p (1920x1080) TFT color**, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

#### Display

- Optional ambient light sensor
- **Multi-touch Capacitive Touch** (PCT) technology, supports 10-point multi-touch
- Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

#### Controls

Microphone mute (OSD exit), monitor mode switch (OSD enter), multi-touch model(s) with monitor stand:

- **Adjustable stand (between 10° and 45°)**
- **LED backlight**, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare
- **Max resolution**: external digital monitor support via DisplayPort

#### Disk

- **SATA 6.0Gb/s**, 3.5" Wide, 7200 rpm
- **Some**: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

#### Optical

- **DVD burner**, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

#### Onboard SATA

- Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

#### Media reader

Optional 11-in-1 media card reader

### Chipset

- **Intel Q87 Express Chipset**
- **24.7 lb (11.22 kg) in maximum configuration**: 22.4" X 3.7" X 17.6"; 568mm X 93.1mm X 447.3 mm
- **28.9 lb (13.12 kg) in maximum configuration**: 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 551.2mm to 551.2mm

### Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

### Warranty

- **3-years, limited onsite service**: 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

### Product Information

- **Preloaded operating system**: Windows® 7 Professional 64 bit preinstalled through downgrade rights in Windows 8 Pro 64-bit
- **Ready to install applications** (only some listed):
  - Rescue and Recovery™
  - Password Manager
- **Preloaded applications** (only some listed):
  - ThinkVantage® Product Recovery
  - ThinkVantage System Update
  - ThinkVantage Communication Utility
  - ThinkVantage Device Experience
  - ThinkVantage AutoLock
  - Desktop Power Manager
  - View Management Utility
  - Lenovo Cloud Storage by SugarSync
  - Lenovo Solution Center
  - Lenovo Message Center Plus
  - Norton™ Internet Security (30 days of virus definitions)
  - Adobe® Reader®
  - Skype™
  - Microsoft Office preloaded; purchase a product key to activate
  - Cyberlink PowerDVD (DVS®R®W®D®)
  - Cyberlink Power2Go (DVS®R®W®)
  - Cyberlink PowerProducer (DVS®R®W®)
  - Evernote
  - Intel AppUp
  - Lenovo Solutions for Small Business
  - Nitro Pro

### ENERGY STAR®

- ENERGY STAR®, 6.0-compliant
- RoHS-compliant

### Compliance

- EuP 2013
- Cisco EnergyWise compliant
- GREENGUARD™ certified
- TCO Certified Edge
- ULE Gold
- TUV Green Mark
- EPEAT™ Gold rating
- TCO Certified Edge
- Green Building Products
- RoHS-compliant

### Accessories

- For compatible accessories, please go to TC-AQP sheet
- For Lenovo service upgrade options, please go to S-TC sheet

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See footnotes for important warranty information

US model(s) announced August 20, 2013

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(MPHS1-11) September 2013
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<tr>
<th>Type-model</th>
<th>Processor</th>
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<th>Graphics</th>
<th>WLAN</th>
<th>Serial</th>
<th>Chassis intrusion switch</th>
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<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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<tbody>
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<td>10AC003FUS</td>
<td>i3-4150</td>
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</table>

**Positioning**

- **Premium All-In-One PC for the enterprise**

**Processor**

- **Intel® Core™ i3-4150 Processor** (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- **Intel Core i5-4590S Processor** (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 16000MHz DDR3 memory controller
- **Intel Core i7-4790S Processor** (4 cores / 8 threads, 3.2GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Graphics**

- Intel HD Graphics or HD Graphics 4400 in processor, uses main memory, DirectX® 11, external digital monitor via VideoPort™, supports dual independent display
- Max resolution: 1920x1080 (2D) @ 60Hz, 1080p (3D) @ 60Hz, 4K (2160p) @ 60Hz
- Full HD 1080p (1920x1080) TFT color; IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

**Display**

- Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
- Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

**Controls**

- Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button

**Disk**

- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide

**Optical**

- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

**Onboard SATA**

- Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

**Chipset**

- Intel Q87 Express Chipset

**Rear ports**

- Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports**

- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

**Security**

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Lenovo Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

**Limited Warranty**

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

**Preloaded operating system**

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Ready to install applications (only some listed)**

- Rescue and Recovery™
- Password Manager

**Preloaded applications (only some listed)**

- ThinkVantage™ Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro
## ThinkCentre M93z (10AC) - Multi-touch (Windows 8)

### Processor

**Intel Core i5-4570S Processor** (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

**Intel Core i7-4770S Processor** (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

### Graphics

Intel HD Graphics 4600 in processor, uses main memory, DirectX 11,

### Memory

16GB max, PC3-12800 1600MHz DDR3, two 204-pin SO-DIMM sockets (notebook)

### Display

23.0" (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle

### Audio support

High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2)

### Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN

### PCIe Mini Card

One PCI Express

### mSATA

One mSATA slot

### Bluetooth

Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

### ExpressCard

One ExpressCard slot

### Fiber Channel

None

### Media reader

Optional 11-in-1 media card reader

### Onboard SATA

Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

### Chipset

Intel Q87 Express Chipset

### Rear ports

Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

### Side ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

### ExpressCard mSATA

One mSATA slot

### PCle Mini Card

One PCI Express Mini Card slot

### PCle WLAN

Some: 802.11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2

### Bluetooth

Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

### Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN

### Audio support

High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2), Dolby Advanced Audio™ v2 certified, Microsoft Lync™ certified

### Intel AMT

Intel Active Management Technology 9.0 (Intel AMT 9.0)

### Security chip

Trusted Platform Module (TPM 1.2-compliant)

### Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo™ logo

### Mouse

Some: Enhanced Optical USB Mouse, Lenovo logo

### Power supply

150 watts, autosensing, 85% PSU

### Machine

- Business black color
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

**Multi-touch model(s) with frame stand:**

- (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm
- 28.9 lb (13.12 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

**Multi-touch model(s) with monitor stand:**

- (WxDxH) 22.4" X 9.7" X 17.4" to 21.7"; 568mm X 247mm X 441.2mm to 551.2mm
- 28.9 lb (13.12 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

### Limited Warranty

3-years, limited onsite service, 5 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

See footnotes for important warranty information

US model(s) announced July 9, 2013 or August 13, 2013

©Lenovo (MPS1-2) August 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PClé Mini Card</th>
<th>PClé WLAN</th>
<th>PCIe</th>
<th>Light sensor</th>
<th>Serial &amp; PS/2 port</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Key-board/ Mouse</th>
<th>Intel vPro</th>
<th>Global (G)</th>
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<td>2.0M 500G 7200 HD 4600 N6235</td>
<td>Media None</td>
<td>Sensor None</td>
<td>Switch Monitor</td>
<td>USB vPro G P</td>
<td>Win7 P64 DG Win8 07/08/14</td>
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</table>

Positioning

Processor

Premium All-In-One PC for the enterprise

Intel Core™ i5-4570S Processor (4 cores / 4 threads), 3.60GHz, 6MB cache, Turbo Boost 2.0 (3.60GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Intel Core i5-4590S Processor (4 cores / 4 threads), 3.60GHz, 6MB cache, Turbo Boost 2.0 (3.60GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

Implementation

Processor in LGA1150 socket

Graphics

Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 3840x2160 (DisplayPort® 860Hz)

Display

23.0" (584mm), Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as standalone monitor via VGA-in connector

Light sensor

Optional ambient light sensor

Multi-touch

Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch

Camera

Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array microphone, LED indicator, physical switch on/off

Controls

Microphone mute (OSD exit), monitor mode switch (OSD enter), volume up/down buttons (OSD left/right buttons), and power button

Disk

Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

Optical

DVR burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

Onboard SATA

Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

Media reader

Optional 11-in-1 media card reader

Chipset

Intel® Q87 Express Chipset

Rear ports

Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optical key board (PS/2), optional mouse (PS/2)

Side ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)

ExpressCard

One mSATA slot

PClé Mini Card

One PClé Express Mini Card slot

PClé WLAN

Some: 11b/g/n wireless, PClé Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11a/b/g/n wireless, PClé Half Mini Card, Intel Centrino Advanced-N 6235, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11a/b/g/n wireless, PClé Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2
Some: 11ac/a/b/g/n wireless, PClé Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo adapter, 2x2

Bluetooth

Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®, High Definition (HD) Audio, Realtek ALC223 / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio v2 certified, Microsoft Lync™ certified

Audio support

Intel Advanced Management Technology 9.0 (Intel AMT 9.0)

Intel AMT Security chip

Trusted Platform Module (TPM 1.2-compliant)

Keyboard

Preferred Pro USB Keyboard (USB connector), Lenovo® logo

Mouse

Enhanced Optical USB Mouse, black, Lenovo logo

Power supply

150 watts, autoseising, 85% PSU

Machine

● Business black color
● Toolless back cover, stand removal
● Toolless disk, optical drive, memory removal
● Support VESA mount (100mm)

Multi-touch model(s) with frame stand:

(WxDxH) 22.4" X 3.7" X 17.6", 568mm X 93.1mm X 447.3 mm
24.7 lb (11.22 kg) in maximum configuration
Adjustable stand (between 10° and 45°)

Multi-touch model(s) with monitor stand:

(WxDxH) 22.4" X 7.8" X 17.6" to 21.7", 568mm X 247mm X 441.2mm to 551.2mm
28.9 lb (13.12 kg) in maximum configuration
Tilt: 45° back, 0° forward; Lift: 110mm; Swivel: +/-45°

Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information

©Lenovo (MPHS1-3) July 2014

Preloaded operating system

Some: Windows® 7 Professional 64
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

Ready to install applications (only some listed)

● Rescue and Recovery™
● Password Manager

Preloaded applications (only some listed)

● ThinkVantage® Product Recovery
● ThinkVantage System Update
● ThinkVantage Communication Utility
● ThinkVantage Device Experience
● ThinkVantage AutoLock
● Desktop Power Manager
● View Management Utility
● Lenovo Cloud Storage by SugarSync
● Lenovo Solution Center
● Lenovo Message Center Plus
● Norton™ Internet Security (30 days of virus definitions)
● Adobe® Reader®
● Skype™
● Microsoft Office preloaded; purchase a product key to activate
● Cyberlink PowerDVD (DVD±RW, DVD)
● Cyberlink Power2Go (DVD±RW)
● Cyberlink PowerProducer (DVD±RW)
● Evernote
● Intel AppUp
● Lenovo Solutions for Small Business
● Nitro Pro

Security

● Security chip (see information on left)
● Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
● Power-on password
● Administrator password
● Hard disk password
● Boot sequence control
● Boot without keyboard and mouse
● USB port disablement
● Chassis intrusion switch on selected model(s)

Pre today’s Gold rating
ENERGY STAR® 6.0-compliant
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant
Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;
For Lenovo service upgrade options, please go to S-TC sheet
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory (megapixel)</th>
<th>Disk</th>
<th>Graphics</th>
<th>PCle Mini Card</th>
<th>Media reader</th>
<th>Light sensor</th>
<th>Serial &amp; PS/2 port</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
<th>Intel PC (P)</th>
<th>Global (G) PC (P)</th>
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</table>

- Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty
- 3-year limited warranty

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### Positioning

**Premium All-In-One PC for the enterprise**

### Processor

**Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache)**
- Turbo Boost 2.0 (3.6GHz), integrated Intel HD Graphics 4600,
- integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- Processor in LGA1150 socket

### Memory

16GB max. PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

### Graphics

Intel HD Graphics 4600 in processor, uses main memory, DirectX® 11,
- external digital monitor support via DisplayPort™, supports dual independent display;
- Maximum resolution: 3840x2160 (DisplayPort)@60Hz

### Display

23.0” (584.2mm) Full HD 1080p (1920x1080) TFT color, IPS panel, wide viewing angle
- (+/- 89°), LED backlight, 250 nits, 16:9 aspect ratio, anti-glare, work as standalone monitor via VGA-in connector

### Light sensor

Optional ambient light sensor

### Multi-touch Camera

Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
- Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

### Controls

Microphone mute (OSD exit), monitor mode switch (OSD enter),
- volume up/down buttons (OSD left/right buttons), and power button

### Disk

Some:
- SATA 6.0Gb/s, 3.5” Wide, 7200 rpm
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
- Onboard SATA
- Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

### Optical reader

Optional 11-in-1 media card reader

### Chipset

Intel Q87 Express Chipset

### Rear ports

Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin),
- optional keyboard (PS/2), optional mouse (PS/2)

### Side ports

Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm),
- one headphone / microphone combo jack (stereo, 3.5mm)

### ExpressCard

None

### Mini Card slot

One mSATA slot

### PCle WLAN

Some:
- 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230,
- Wi-Fi + Bluetooth combo adapter, 2x2
- Some:
- 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260,
- Wi-Fi + Bluetooth combo adapter, 2x2

### Bluetooth

Bluetooth 4.0, integrated in Intel Wi-Fi + Bluetooth combo adapter

### Ethernet

One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN™

### Audio support

High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3Watt x 2),
- Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

### Intel AMT

Intel Active Management Technology 9.0 (Intel AMT 9.0)

### Security chip

Trusted Platform Module (TPM 1.2-compliant)

### Keyboard/Mouse

Preferred Pro USB Keyboard (USB connector), Lenovo™ logo
- Enhanced Optical USB Mouse, black, Lenovo logo

### Power supply

150 watts, autosaensing, 85% PSU

### Machine

- Business black color
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

### Multi-touch model(s) with frame stand:

- (WxDxH): 22.4" x 9.7" x 17.4" to 21.7", 586mm X 247mm X 441.2mm to 515.2mm
- 28.9 lb (13.12 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°

### Preloaded operating system

Some:
- Windows® 8 Pro 64-bit
- Windows® 8.1 Pro 64-bit

### Web install applications (only some listed)

- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage System Update
- ThinkVantage AutoLock
- Desktop Power Manager
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Norton Internet Security
- (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Lenovo Solutions for Small Business
- Norton Antivirus
- AccuWeather
- Norton™ Studio
- Pokki (for Windows 8.1 only)
- Hightail (for Windows 8.1 only)

### Security

- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

---

See footnotes for important warranty information

US model(s) announced July 9, 2013 or February 25, 2104

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(MPHS1-4) February 2013
ThinkCentre Edge 62z
## ThinkCentre Edge 62z (2117) - TopSeller

Product Specifications Reference (PSREF)

### Type-model Processor Memory

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<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
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<tbody>
<tr>
<td>2117-BBU</td>
<td>i3-3220</td>
<td>4GBx1 1600MHz</td>
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<td>2117-EKU</td>
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<td>2117-EWU</td>
<td>i3-3240</td>
<td>2GBx1 1600MHz</td>
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</table>

### Model(s) with Frame stand:

- Power supply: 120 watts, autosensing, 87% PSU
- Keyboard: Lenovo Slim New F5 USB Keyboard (USB connector), black
- Mouse: Enhanced Optical USB Mouse, black, Lenovo logo
- Machine: Model(s) with Frame stand:
  - Business black color
  - 18.5" W X 2.3" D X 14.5" H
  - 469.7mm W X 95.5mm D X 368.4mm H (including stand)
  - 11 lb (5 kg) in maximum configuration
  - Tilt: 10°~20° back; no lift; no swivel; adjustable stand
  - Supports VESA mount (100mm)

### Preloaded operating system™

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager
- Lenovo® Message Center Plus

### Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Lenovo Cloud Storage by SugarSync
- Norton™ Internet Security
- (30 days of virus definitions)
- Adobe® Reader®
- Evernote®
- Symantec® VIP
- Intel AppUp®
- Nitro PDF Pro
- Skype™ for Windows
- Windows Live Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)
- Lenovo Solution Center
- ThinkVantage Power Manager
- ThinkVantage Automatic Lock Utility
- ThinkVantage Communication Utility
- ThinkVantage System Update

### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

### ENERGY STAR® 5.2-compliant

EuP 2013
RoHS-compliant

### Limited Warranty

1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information
US models announced March 26 or May 14, 2013
©Lenovo (TAYN1-1) June 2013
## ThinkCentre E63z Platform Specifications

### Processor

| Pentium J2900 | 4 / 4 | 2.41 GHz | 2.66 GHz | 2MB DDR3L-1333 | Intel HD |
| Core i3-4005U | 2 / 4 | 1.7 GHz | - | 3MB DDR3L-1600 | Intel HD |

### Memory

**Pentium models:** 8GB max** / DDR3 Low Voltage, DDR3L-1600**, non-parity, one 204-pin SO-DIMM socket

**Core i3 models:** 16GB max** / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

*System automatically clocks down for 1333MHz DDR3 memory controller

### Disk

**Some:** SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm

**Some:** 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

**Some:** Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

**None**

### Graphics

Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory, **Maximum resolution:** 1600x900@60Hz (panel); 2560x1600@60Hz (HDMI-out)

**19.5" (495.3mm) HD+ (1600x900) TFT color,** LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

### Optical Media reader

**Pentium models:** Serial ATA, SATA 3.0Gbps support, integrated in processor

**Core i3 models:** Serial ATA, SATA 6.0Gbps support, integrated in processor

Optional 7-in-1 media card reader (Core i3 models only)

### Mechanical

- **Business black color**
- **Power-on password**
- **Administrator password**
- **USB port disablement**

### Display

**Rear ports**

- **Pentium models:** Two USB 2.0, ethernet (RJ-45), DC-IN
- **Core i3 models:** Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

**Side ports**

- **Pentium models:** One USB 3.0, one microphone / headphone combo jack (3.5mm)
- **Core i3 models:** One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

### Audio support

High Definition (HD) Audio, Realtek ALC233 (Pentium models) / Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)

### Ethernet

**Bluetooth**

- **4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter**

**vPro & iAMT Security chip**

- **None**

### Security features

- **Security slot (in rear for attachment of optional Kensington MicroSaver cable; Kensington lock also locks chassis)**
- **Power-on password**
- **Administrator password**
- **Hard disk password**
- **Boot sequence control**
- **Boot without keyboard and mouse**
- **USB port disablement**

### Keyboard

**Some:** Preferred Pro USB Keyboard (USB connector), Lenovo logo

**Mouse**

- **Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo**
- **Optical USB Mouse, black, Lenovo logo**
- **Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black**

### Mechanical

- **Dimensions (WxDxH):**
  - **19.21" X 2.44" X 13.62" (488mm X 62mm X 346mm)**
  - **10.58 lb (4.8 kg)**

### Power supply

- **56 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)**

### Limited warranty

- **Some:** 1-year or 3-years, limited onsite service / service upgrades available

### Preload

- **Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit**
- **Ready to install applications** (only some listed)
  - **ThinkVantage Product Recovery**
  - **ThinkVantage System Update**
  - **ThinkVantage Communication Utility**
  - **ThinkVantage Device Experience**
  - **ThinkVantage AutoLock**
  - **Lenovo SHAREit**
  - **BlueTooth Security Lock**
  - **Desktop Power Manager**
  - **View Management Utility**
  - **Lenovo Solution Center**
  - **Lenovo Message Center Plus**
  - **Norton™ Internet Security** (30 days of virus definitions)
  - **Skype™**
  - **Microsoft Office preloaded; purchase a product key to activate**
  - **Cyberlink PowerDVD (DVD±RW, DVD)**
  - **Cyberlink Power2Go (DVD±RW)**
  - **Evernote®**

### Environment

- **EPEAT® Gold (For Windows models only); ENERGY STAR® 6.0 (For Windows models only); GREEenguARD®; RoHS-compliant; Cisco EnergyWise compatible; EIP Lot 3**
### ThinkCentre E63z (10D4) - TopSeller

#### Processor
- **Intel® Pentium® or 4th Generation Intel Core™ i3 Processor**
  - **Processor**: Pentium J2900
    - **Cores / Threads**: 2 / 2
    - **Clock Speed**: 2.41 GHz
    - **Max Burst Frequency**: 2.66 GHz
    - **Cache**: 2MB
    - **Memory Types**: DDR3L-1333
    - **Integrated Graphics**: Intel HD
  - **Core i3-4050U**: 2 / 2, 1.7 GHz, 3MB DDR3L-1600, Intel HD

#### Memory
- **Pentium models**: 8GB max, DDR3 Low Voltage, DDR3L-1600, non-parity, one 204-pin SO-DIMM socket
- **Core i3 models**: 16GB max, DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

#### Disk
- **SATA 6.0Gb/s, 2.5” Wide, 5400 rpm or 7200 rpm**
- **500GB (5400 rpm) or 1TB (5400 rpm)**
  - Hybrid hard disk with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5” wide
- **Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5” Wide**

#### Graphics
- **Intel HD Graphics or Intel HD Graphics 4400**

#### Display
- **19.5” (495.3mm) HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°)
- **1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°)**
- **Tilt: 10° to 60° back**

#### Optical Drive reader
- **Media reader**: Optional 7-in-1 media card reader (Core i3 models only)

#### Multi-touch Camera Controls
- **Multi-touch Camera**: Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
  - **Some**: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator
- **Power button on right side**

#### Chipset
- **Intel System-on-Chip (SoC) platform**

#### Rear ports
- **Pentium models**: Two USB 2.0, ethernet (RJ-45), DC-IN
- **Core i3 models**: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

#### Side ports
- **Pentium models**: One USB 3.0, one microphone / headphone combo jack (3.5mm)
- **Core i3 models**: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

#### PCIe Mini Card
- **One PCI Express Mini Card slot (half size, for WLAN)**

#### Audio support
- **High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models)**
- **internal speakers (3 Watt x 2)**

#### WLAN
- **Some**: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- **Some**: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2

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*For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

### Processor Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Display</th>
<th>Multi-Touch</th>
<th>Processor</th>
<th>Graphics</th>
<th>Media Reader</th>
<th>Camera</th>
<th>Memory</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Floor Stand</th>
<th>Keyboard / Mouse</th>
<th>Preload</th>
<th>Warranty (year)</th>
<th>Gobal</th>
<th>Ann Date (mm/yy)</th>
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<tbody>
<tr>
<td>10D40004US</td>
<td>19.5” HD+</td>
<td>None</td>
<td>Pentium J2900</td>
<td>Intel HD</td>
<td>None</td>
<td>720p</td>
<td>4GBx1</td>
<td>500GB</td>
<td>7200</td>
<td>RTL8723BE</td>
<td>Frame</td>
<td>USB (slim)</td>
<td>Win7 P64 DG Win8.1</td>
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<td>08/14</td>
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<tr>
<td>10D40005US</td>
<td>19.5” HD+</td>
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<td>Pentium J2900</td>
<td>Intel HD</td>
<td>None</td>
<td>2GBx1</td>
<td>500GB</td>
<td>7200</td>
<td>None</td>
<td>RTL8723BE</td>
<td>Frame</td>
<td>USB (slim)</td>
<td>Win7 P64 DG Win8.1</td>
<td>1-onsite</td>
<td>No</td>
<td>08/14</td>
</tr>
</tbody>
</table>

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### Additional Notes
- For Lenovo service upgrade options, please go to S-TC sheet.
ThinkCentre E63z (10D6) - Multi-touch (TopSeller)

### Processor

<table>
<thead>
<tr>
<th>Model</th>
<th>Display</th>
<th>Multi-touch</th>
<th>Processor</th>
<th>Graphics</th>
<th>Media Reader</th>
<th>Camera</th>
<th>Memory</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Floor Stand</th>
<th>Keyboard / Mouse</th>
<th>Preload</th>
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<th>Ann Date (mm/yy)</th>
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<td>500GB</td>
<td>None</td>
<td>RTL8723BE</td>
<td>Frame</td>
<td>USB (slim)</td>
<td>Win7 64 DG Win8.1</td>
<td>1-onsite</td>
<td>No</td>
<td>08/14</td>
</tr>
<tr>
<td>10D60006US</td>
<td>19.5&quot; HD+</td>
<td>Touch</td>
<td>Pentium J2900</td>
<td>Intel HD</td>
<td>None</td>
<td>720p</td>
<td>4GBx1</td>
<td>500GB</td>
<td>None</td>
<td>RTL8723BE</td>
<td>Frame</td>
<td>USB (slim)</td>
<td>Win7 64 DG Win8.1</td>
<td>1-onsite</td>
<td>No</td>
<td>08/14</td>
</tr>
<tr>
<td>10D60007US</td>
<td>19.5&quot; HD+</td>
<td>Touch</td>
<td>Pentium J2900</td>
<td>Intel HD</td>
<td>None</td>
<td>2GBx1</td>
<td>500GB</td>
<td>7200</td>
<td>None</td>
<td>RTL8723BE</td>
<td>Frame</td>
<td>USB (slim)</td>
<td>Win7 64 DG Win8.1</td>
<td>1-onsite</td>
<td>No</td>
<td>08/14</td>
</tr>
</tbody>
</table>

### Memory

- **Pentium models:** 8GB max, DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
- **Core i3 models:** 16GB max, DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

*System automatically clocks down for 1333MHz DDR3 memory controller

### Disk

- **Some:** Sata 6.0Gb/s, 2.5 Wide, 5400 rpm or 7200 rpm
- **Some:** 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5 Wide
- **Some:** Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5 Wide

### Optical

- **Pentium models:** Serial ATA, SATA 6.0Gb/s support, integrated in processor
- **Core i3 models:** Serial ATA, SATA 6.0Gb/s support, integrated in processor

### Graphics

- **Intel HD Graphics** or **Intel HD Graphics 4400** in processor, uses main memory,
- **Maximum resolution:** 1600x900 @ 60Hz (panel); 2560x1600 @ 60Hz (HDMI-out)

### Display

- **19.5" (495.3mm) HD+ (1600x900) TFT color,** LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

### Multi-touch Camera Controls

- Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- **Some:** 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator
- Power button on right side

### Chipset

- **Intel System-on-Chip (SoC) platform**

### Rear ports

- **Pentium models:** Two USB 2.0, ethernet (RJ-45), DC-IN
- **Core i3 models:** Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

### Side ports

- **Pentium models:** One USB 3.0, one microphone / headphone combo jack (3.5mm)
- **Core i3 models:** One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

### PCle Mini Card

- **One PCI Express Mini Card slot (half size, for WLAN only)**

### Audio support

- **High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)**

### WLAN

- **Some:** 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- **Some:** 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2

### Power supply

- 65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

### Limited warranty

- **Some:** 1-year or 3-years, limited onsite service / service upgrades available
- **Some:** 1-year or 3-years, Depot or Carry-in / service upgrades available

For Lenovo service upgrade options, please go to S-TC sheet

### Preload

- **Some:** Windows 7 Professional 64 preinstalled on Windows 8.1 Pro 64-bit
- **Some:** Windows 7 Professional 64-bit
- **Some:** Windows 8.1 Pro 64-bit
- **Some:** Windows 8.1 with Bing 64-bit

**Environment**

- ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

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For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet.
### ThinkCentre E63z (10E0) - TopSeller

**Processor Intel® Pentium® or 4th Generation Intel Core™ i3 Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Clock Speed</th>
<th>Max Burst Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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<tr>
<td>Pentium J3950</td>
<td>4 / 4</td>
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<tr>
<td>Core i3-4005U</td>
<td>2 / 4</td>
<td>1.7 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR3L-1600</td>
<td>Intel HD 4400</td>
</tr>
</tbody>
</table>

*System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces

**Memory**

- **Pentium models**: 8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
- **Core i3 models**: 16GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

*System automatically clocks down for 1333MHz DDR3 memory controller

**Disk**

- **Some**: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
- **Some**: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- **Some**: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

**Optical Drive**

- **Pentium models**: Serial ATA, SATA 3.0Gb/s support, integrated in processor
- **Core i3 models**: Serial ATA, SATA 6.0Gb/s support, integrated in processor

Optional 7-in-1 media card reader (Core i3 models only)

**Graphics**

- **Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory, Maximum resolution: 1600x900 @ 60Hz (panel); 2560x1600 @ 60Hz (HDMI-out)**

**Display**

- **19.5" (495.3mm) HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

**Multi-touch Camera Controls**

- **Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch**
- **Some**: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

**Chips**

- **Intel System-on-Chip (SoC) platform**

**Power Supply**

- 65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

**Limited Warranty**

- Some: 1-year or 3-years, limited onsite service / service upgrades available
- Some: 1-year or 3-years, Depot or Carry-in / service upgrades available

For Lenovo service upgrade options, please go to S-TC sheet

**Preload**

- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit
- Some: Windows 8.1 with Bing 64-bit

**Environment**

- ENERGY STAR® 6.0 (For Windows models only)
- GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

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For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#).

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See footnotes for more detailed information
### ThinkCentre E63z (10E2) - Multi-touch (TopSeller)

**Processor**
- Intel® Pentium® or 4th Generation Intel Core™ i3 Processor

**Memory**
- Pentium models: 8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
- Core i3 models: 16GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

**Disk**
- Some: SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
- Some: 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

**Optical**
- None

**Graphics**
- Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory,
  *Maximum resolution: 1600x900 @60Hz (panel); 2560x1600 @60Hz (HDMI-out)

**Display**
- 19.5" (495.3mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

**Multi-touch Camera Controls**
- Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

**Chipset**
- Intel System-on-Chip (SoC) platform

**Power supply**
- 65 watts external adapter, autoselects, 88% PSU, 204-205V (50-60Hz)

**Limited warranty**
- Some: 1-year or 3-years, limited onsite service / service upgrades available
- Some: 1-year or 3-years, Depot or Carry-in / service upgrades available

**Preload**
- Lenovo with Bing 64-bit for Windows 8.1 Pro 64-bit
- Lenovo with Bing 64-bit for Windows 8.1 64-bit
- Windows 8.1 64-bit
- Windows 8.1 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Lenovo with Bing 64-bit

**Environment**
- ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

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### ThinkCentre E63z Platform Specifications sheet

See footnotes for more detailed information

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## ThinkCentre E63z (10D5)

### Processor

<table>
<thead>
<tr>
<th>Model</th>
<th>Display</th>
<th>Multi-Touch</th>
<th>Processor</th>
<th>Graphics</th>
<th>Media Reader</th>
<th>Camera</th>
<th>Memory</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Floor Stand</th>
<th>Keyboard / Mouse</th>
<th>Preload</th>
<th>Base Warranty (year)</th>
<th>Global</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10D5000FUS</td>
<td>19.5&quot; HD+</td>
<td>None</td>
<td>Pentium J2900</td>
<td>Intel HD</td>
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</tbody>
</table>

### Memory

- **Pentium models:** 8GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
- **Core i3 models:** 16GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

### Disk

- **Some:** SATA 6.0Gb/s, 2.5" Wide, 5400 rpm or 7200 rpm
- **Some:** 500GB (5400 rpm) or 1TB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- **Some:** Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

### Optical

**Pentium models:** Serial ATA, SATA 6.0Gb/s support, integrated in processor
**Core i3 models:** Serial ATA, SATA 6.0Gb/s support, integrated in processor

### Graphics

- **Intel HD Graphics** or **Intel HD Graphics 4400** in processor, uses main memory
- **Maximum resolution:** 1600x900 @60Hz (panel); 2560x1600 @60Hz (HDMI-out)

### Display

- **19.5" (495.3mm)** HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models

### Multi-touch Camera Controls

- **Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- **Some:** 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator
- **Power button on right side**

### Chipset

**Intel System-on-Chip (SoC) platform**

### Rear ports

- **Pentium models:** Two USB 2.0, ethernet (RJ-45), DC-IN
- **Core i3 models:** Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

### Side ports

- **Pentium models:** One USB 3.0, one microphone / headphone combo jack (3.5mm)
- **Core i3 models:** One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

### PCIe Mini Card

- **One PCI Express Mini Card slot (half size, for WLAN)**

### Audio support

- **High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3watt x 2)**

### WLAN

- **Some:** 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- **Some:** 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2

### Security features

- **Some:** Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)
- **Some:** Hard disk password
- **Some:** Boot sequence control
- **Some:** Boot without keyboard and mouse
- **Some:** USB port disablement

### Keyboard

- **Some:** Preferred Pro USB Keyboard (USB connector), Lenovo logo
- **Some:** Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
- **Some:** Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
- **Some:** Enhanced Optical USB Mouse, black, Lenovo logo
- **Some:** Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

### Mouse

- **Some:** Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

### Mechanical

- **Some:** Business black color
- **Some:** Support VESA mount (100mm)

### Power supply

- **65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)**

### Limited warranty

- **Some:** 1-year or 3-years, limited onsite service / service upgrades available
- **Some:** 1-year or 3-years, Depot or Carry-in / service upgrades available

### Preload

- **Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- **Some:** Windows 8.1 64-bit
- **Some:** Windows 8.1 with Bing 64-bit

### Environment

- **ENERGY STAR** 6.0 (For Windows models only)
- **GREENGUARD** 2.0

---

* For detailed platform specifications, please see [ThinkCentre E63z Platform Specifications sheet](#).

---

See footnotes for more detailed information © Lenovo (TWIN1-3) December 2014
**ThinkCentre E63z (10D7) - Multi-touch**

<table>
<thead>
<tr>
<th>Model</th>
<th>Display</th>
<th>Multi-Touch</th>
<th>Processor</th>
<th>Graphics</th>
<th>Media Reader</th>
<th>Camera</th>
<th>Memory</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Floor Stand</th>
<th>Keyboard / Mouse</th>
<th>Preload</th>
<th>Base Warranty (year)</th>
<th>Goboal</th>
<th>Ann Date (mm/yy)</th>
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<tbody>
<tr>
<td>10D7000KUS</td>
<td>19.5” HD+</td>
<td>Touch</td>
<td>Pentium J2900</td>
<td>Intel HD</td>
<td>None</td>
<td>720p</td>
<td>4GBx1</td>
<td>500GB 7200</td>
<td>None</td>
<td>7260 b/g/n</td>
<td>Frame</td>
<td>USB Win7 P64 DG Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>08/14</td>
<td></td>
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<tr>
<td>10D7000HUS</td>
<td>19.5” HD+</td>
<td>Touch</td>
<td>Pentium J2900</td>
<td>Intel HD</td>
<td>None</td>
<td>720p</td>
<td>8GBx1</td>
<td>500GB 7200</td>
<td>None</td>
<td>7260 ac</td>
<td>Frame</td>
<td>USB Win7 P64 DG Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>08/14</td>
<td></td>
</tr>
</tbody>
</table>

*For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

- Processor: Intel® Pentium® or 4th Generation Intel Core™ i3 Processor
- Memory: 8GB max2 / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket
- Core i3 models: 16GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets

**Security features**
- Security chip: None
- Security features: Security slot (in rear for attachment of optional Kensington® MicroSaver® cable);
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement

**Keyboard**
- Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
- Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
- Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black
- Some: Enhanced Optical USB Mouse, black, Lenovo logo

**Mouse**
- Some: Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

**Mechanical**
- Business black color
- Support VESA mount (100mm)

**Chipset**
- Intel System-on-Chip (SoC) platform

- Rear ports: Pentium models: Two USB 2.0, ethernet (RJ-45), DC-IN
- Core i3 models: Two USB 2.0, ethernet (RJ-45), HDMI-out, DC-IN

- Side ports: Pentium models: One USB 3.0, one microphone / headphone combo jack (3.5mm)
- Core i3 models: One USB 3.0 (charging port), one microphone / headphone combo jack (3.5mm), 7-in-1 card reader

- PCle Mini Card: One PCI Express Mini Card slot (half size, for WLAN)
- Audio support: High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20751 (Core i3 models) / internal speakers (3x Watt x 2)
- WLAN®: Some: 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- Some: 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2

- Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory, Maximum resolution: 1600x900 @60Hz (panel); 2560x1600 @60Hz (HDMI-out)

- Display: 19.5” (495.3mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°)

- Optical: SATA controller

- SATA controller Media reader: Pentium models: Serial ATA, SATA 3.0Gb/s support, integrated in processor
- Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor
- Optional 7-in-1 media card reader (Core i3 models only)

- Graphics: Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory, Maximum resolution: 1600x900 @60Hz (panel); 2560x1600 @60Hz (HDMI-out)

- Display: 19.5” (495.3mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°)

- Multi-touch Camera Controls: Optional Projected Capacitive Touch (PCT) technology, supports 10-touch point touch
- Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator
- Power button on right side

- Chipset: Intel System-on-Chip (SoC) platform

- Power supply: 65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

- Limited warranty: Some: 1-year or 3-years, limited onsite service / service upgrades available
- Some: 1-year or 3-years, Depot or Carry-in / service upgrades available

- For Lenovo service upgrade options, please go to S-TC sheet

- Preload: Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 8.1 64-bit

- Some: Windows 8.1 Pro 64-bit
- Some: Windows 8.1 with Bing 64-bit

- Environment: ENERGY STAR® 6.0 (For Windows models only);
- GREENGUARD®; RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information

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(TWIN1-4) December 2014
### ThinkCentre E63z (10E1)

#### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Display</th>
<th>Multi-Touch</th>
<th>Processor</th>
<th>Graphics</th>
<th>Media Reader</th>
<th>Camera</th>
<th>Memory</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Floor Stand</th>
<th>Keyboard / Mouse</th>
<th>Preload</th>
<th>Base Warranty (year)</th>
<th>Global Warranty (years)</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10E10002US</td>
<td>19.5&quot; HD+</td>
<td>None</td>
<td>i3-4005U</td>
<td>HD 4400</td>
<td>7-in-1</td>
<td>720p</td>
<td>4GBx1</td>
<td>500GB 7200</td>
<td>None</td>
<td>7260 b/g/n Frame</td>
<td>USB</td>
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<td>No</td>
<td>11/14</td>
<td></td>
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<tr>
<td>10E10006US</td>
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<td>None</td>
<td>i3-4005U</td>
<td>HD 4400</td>
<td>7-in-1</td>
<td>720p</td>
<td>8GBx1</td>
<td>256GB SSD OPAL</td>
<td>None</td>
<td>7260 b/g/n Frame</td>
<td>USB</td>
<td>Win7 P64 DG Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>11/14</td>
<td></td>
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<td>10E10007US</td>
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<td>720p</td>
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<td>i3-4005U</td>
<td>HD 4400</td>
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<td>720p</td>
<td>8GBx1</td>
<td>500GB 7200</td>
<td>None</td>
<td>7260 b/g/n Frame</td>
<td>USB</td>
<td>Win7 P64 DG Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>11/14</td>
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</tr>
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</table>

*For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*

### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Clock Speed</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium J2900</td>
<td>4/4</td>
<td>2.41 GHz</td>
<td>2MB</td>
<td>DDR3L-1333</td>
<td>Intel HD</td>
</tr>
<tr>
<td>Core i3-4005U</td>
<td>2/4</td>
<td>1.7 GHz</td>
<td>-</td>
<td>DDR3L-1600</td>
<td>Intel HD 4400</td>
</tr>
</tbody>
</table>
| *System-on-Chip (SoC) solution, integrates Intel processor core, Graphics, Memory Controller, and I/O interfaces*

### Memory

<table>
<thead>
<tr>
<th>Models</th>
<th>Type</th>
<th>8GB max2 / DDR3 Low Voltage, DDR3L-1600*, non-parity, one 204-pin SO-DIMM socket</th>
<th>Core i3 models: 16GB max / DDR3 Low Voltage, DDR3L-1600, non-parity, two 204-pin SO-DIMM sockets</th>
</tr>
</thead>
</table>
| E63z non-touch with frame stand | 1333MHz DDR3 memory controller:
| 19.5" (495.3mm) HD+ (1600x900) | TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, wide viewing angle (horizontal: +/- 85°; vertical: +/- 80°), frameless for touch models, frame for non-touch models |

### Display

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Maximum resolution: 1600x900 @60Hz (panel); 2560x1600 @60Hz (HDMI-out)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional</td>
<td>Projected Capacitive Touch (PCT) technology, supports 10-point touch</td>
</tr>
<tr>
<td>Multi-touch Camera Controls</td>
<td>Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch</td>
</tr>
<tr>
<td>Chipset</td>
<td>Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch</td>
</tr>
<tr>
<td>Intel System-on-Chip (SoC) platform</td>
<td>Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch</td>
</tr>
</tbody>
</table>

### Power supply

65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

### Limited warranty

1-year or 3-years, limited onsite service / service upgrades available

---

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### ThinkCentre E63z (10E3) - Multi-touch

#### Processor

<table>
<thead>
<tr>
<th>Model</th>
<th>Display</th>
<th>Multi-Touch</th>
<th>Processor</th>
<th>Graphics</th>
<th>Media Reader</th>
<th>Camera</th>
<th>Memory</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Floor Stand</th>
<th>Keyboard / Mouse</th>
<th>Preload</th>
<th>Base Warranty (year)</th>
<th>Global</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10E30007US</td>
<td>19.5” HD+ Touch</td>
<td>i3-4005U</td>
<td>HD 4400</td>
<td>7-in-1</td>
<td>720p</td>
<td>4GBx1</td>
<td>500GB SSD</td>
<td>7200</td>
<td>None</td>
<td>7260 b/g/n</td>
<td>Frame</td>
<td>USB Win7 P64 D6 Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>11/14</td>
<td></td>
</tr>
<tr>
<td>10E30008US</td>
<td>19.5” HD+ Touch</td>
<td>i3-4005U</td>
<td>HD 4400</td>
<td>7-in-1</td>
<td>720p</td>
<td>8GBx1</td>
<td>500GB SSD</td>
<td>7200</td>
<td>None</td>
<td>7260 b/g/n</td>
<td>Frame</td>
<td>USB Win7 P64 D6 Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>11/14</td>
<td></td>
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<tr>
<td>10E30009US</td>
<td>19.5” HD+ Touch</td>
<td>i3-4005U</td>
<td>HD 4400</td>
<td>7-in-1</td>
<td>720p</td>
<td>8GBx1</td>
<td>256GB SSD OPAL</td>
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<td>7260 b/g/n</td>
<td>Frame</td>
<td>USB Win7 P64 D6 Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>11/14</td>
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<tr>
<td>10E3000AUS</td>
<td>19.5” HD+ Touch</td>
<td>i3-4005U</td>
<td>HD 4400</td>
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<td>720p</td>
<td>8GBx1</td>
<td>256GB SSD OPAL</td>
<td>None</td>
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<td>Frame</td>
<td>USB Win7 P64 D6 Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>11/14</td>
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</tbody>
</table>

* For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet.
ThinkCentre E73 SFF and Tower

ThinkCentre E73 SFF and Tower

ThinkCentre E73 SFF and Tower

ThinkCentre E73 Tower

ThinkCentre E73 Tower

ThinkCentre E73 SFF

ThinkCentre E73 SFF

ThinkCentre E73 Tower

ThinkCentre E73 SFF

ThinkCentre E73 SFF with HDD and optional SSD

ThinkCentre E73 Tower with Dual Lenovo ThinkVision Monitors
### ThinkCentre E73 Tower (10AS) - TopSeller

#### Preloaded operating system
Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8/8.1 Pro 64-bit

#### Ready to install applications (only some listed)
- Rescue and Recovery™
- Password Manager

#### Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Evernote®
- Microsoft® Office preloaded; purchase a product key to activate
- Cyberlink Power2Go® (DVD±RW)
- Cyberlink PowerProducer® (DVD±RW)
- Nitro Pro

### Security
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

#### Preloading
- GREENGUARD® certified
- RoHS-compliant

### Notes
- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

---

### Processor

**Processor**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>PCIe WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Parallel port</th>
<th>Serial port</th>
<th>Keyboard / mouse</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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</thead>
<tbody>
<tr>
<td>10AS002KUS</td>
<td>3x4</td>
<td>i5-4570S</td>
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<td>500G 7200</td>
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<td>None</td>
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<td>Serial</td>
<td>USB slim</td>
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<td>HD 4600</td>
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<td>Win7 Pro64 / DG</td>
<td>11/18/14</td>
<td></td>
</tr>
<tr>
<td>10AS00DDUS</td>
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<td>i3-4150</td>
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<td>500G 7200</td>
<td>DVD±RW</td>
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<td>None</td>
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<td>Win7 Pro64 / DG</td>
<td>11/18/14</td>
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<td>i5-4460S</td>
<td>4GBx1</td>
<td>500G 7200</td>
<td>DVD±RW</td>
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<td>HD 4600</td>
<td>None</td>
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<td>None</td>
<td>Win7 Pro64 / DG</td>
<td>11/18/14</td>
<td></td>
</tr>
</tbody>
</table>

#### Graphics

**Intel HD Graphics**

**Intel HD Graphics or Intel HD Graphics 4400/4600** in processor, uses main memory, one VGA, one DisplayPort™, supports dual independent display;

- **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz;
- Supports dual independent display; one VGA, one DisplayPort

**Intel HD Graphics 4400/4600**

**System automatically clocks down for processors with 1333MHz memory controller**

#### Chipset

**Intel H81 Express Chipset**

- Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- Rear ports: Two USB 3.0, two USB 2.0, optional serial (9-pin), optional parallel (25-pin), ethernet (RJ-45), VGA DB-15, DisplayPort

#### Disk

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Frequency (Base/Max)</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium G3240</td>
<td>2 / 2</td>
<td>3.1 GHz</td>
<td>3 MB</td>
<td>DDR3-1333</td>
<td>Intel HD</td>
</tr>
<tr>
<td>Pentium G3220</td>
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<td>3 GHz</td>
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<tr>
<td>Core i3-4150</td>
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<td>3.5 GHz</td>
<td>3 MB</td>
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<td>Core i5-4430S</td>
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<td>2.7 GHz / 3.2 GHz</td>
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<td>4 / 4</td>
<td>3.2 GHz / 4 GHz</td>
<td>6 MB</td>
<td>DDR3-1600</td>
<td>HD 4600</td>
</tr>
</tbody>
</table>

#### Memory

- 16GB max, UDIMM, PC3-12800 1600MHz DDR3®, two 240-pin DIMM sockets
- *System automatically clocks down for processors with 1333MHz memory controller*

#### Audio

- High Definition (HD) Audio, Realtek® ALC662 codec

#### IEEE 1394

- None

#### Speaker

- Internal speaker for business audio

#### Ethernet

- Gigabit ethernet port, Realtek RTL8111G/N, Wake on LAN

#### Keyboard

- Preferred Pro USB Keyboard (USB connector), black, Lenovo® logo
- Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo

#### Mouse

- Enhanced Optical USB Mouse, black, Lenovo logo

#### Power supply

- 180 watts, universal, autosensing

#### Machine

- Glossy black bezel; metal case
- 6.3" W X 15.7" D X 15.6" H (with handle)
- 160mm W X 400mm D X 397mm H
- 16.5 lb (7.5 kg) in maximum configuration
- Ergonomic rubberized handle
- Highlighted optical drive button for easy access
- Bay 1: 5.25", 1.6" high, access, std optical
- Bay 2: 3.5", 1" high, no access, std disk
- Bay 3: 3.5", 35" high, access, optnl reader
- Bay 4: 3.5", 1" high, no access, opt 2nd 2.5" disk
- "bay only available on models with media reader installed"
- "3.5" to 2.5" bracket comes with optional 2nd 2.5" disk

#### Slot

- Slot 1: half-length, full-height, PCI Express® 3.0 x16 (60W max)
- Slot 2: half-length, full-height, PCI Express® 2.0 x1
- Slot 3: half-length, full-height, PCI Express® 2.0 x1

#### Security

- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

### Limited Warranty

- 1-year, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

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See footnotes for important warranty information
ThinkCentre E93z All-In-One

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand

ThinkCentre E93z with Frame Stand

ThinkCentre E93z with Monitor Stand
### ThinkCentre E93z (10B8) - TopSeller

#### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Media reader</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
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<th>Ann date (mm/dd/yy)</th>
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<td>4GBx1</td>
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<td>Media Frame</td>
<td>USB</td>
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<td>500G</td>
<td>DVD±RW HD 4600 N2230</td>
<td>Media Frame</td>
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<td>Media Frame</td>
<td>USB</td>
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<td>Win7 P64 DG Win8</td>
<td>12/16/14</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **1-year limited warranty**

#### Preloaded operating system

- **Some**: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- **Some**: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

#### Ready to install applications (only some listed)

- **Rescue and Recovery™**
- **Password Manager**

#### Preloaded applications (only some listed)

- **ThinkVantage® Product Recovery**
- **ThinkVantage System Update**
- **ThinkVantage Communication Utility**
- **ThinkVantage Device Experience**
- **ThinkVantage AutoLock**
- **Desktop Power Manager**
- **View Management Utility**
- **Lenovo Cloud Storage by SugarSync**
- **Lenovo Solution Center**
- **Lenovo Message Center Plus**
- **Norton™ Internet Security**
- **Lenovo Solutions for Small Business**
- **Nitro Pro**

#### Security

- **Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)**
- **Power-on password**
- **Administrator password**
- **Hard disk password**
- **Boot sequence control**
- **Boot without keyboard and mouse**
- **Individual USB port disablement**

#### System warranty

- **ENERGY STAR® 6.0-compliant**
- **EuP 2013**
- **GREENGUARD® certified**
- **RoHS-compliant**

#### Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AOP sheet; For Lenovo service upgrade options, please go to S-TC sheet

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See footnotes for important warranty information ©Lenovo (TRPL1-1) December 2014
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor Memory</th>
<th>Wide-screen display</th>
<th>Multi-Touch</th>
<th>Camera (mega-pixel)</th>
<th>Disk SATA GB rpm</th>
<th>SATA optical Graphics</th>
<th>PCIe Mini Card</th>
<th>Media Reader Stand type</th>
<th>Keyboard/Mouse Global</th>
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<th>Ann date (mm/dd/yy)</th>
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<tr>
<td><strong>ThinkCentre E93z (10B9) - NVIDIA (TopSeller)</strong></td>
<td><strong>Processor</strong> Intel® Core™ i5-4430S Processor (4 cores / 4 threads), Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</td>
<td><strong>Implementation</strong> Processor in LGA1150 socket</td>
<td><strong>Memory</strong> 16GB max, 4GBx1</td>
<td><strong>Graphics</strong> NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, NVIDIA® GeForce® GT 720A, PCI Express® x16, 1GB memory, DirectX® 11, NVIDIA® GeForce® GT 720A, PCI Express® x16, 1GB memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display, Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz, LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector</td>
<td><strong>Display</strong> 21.5&quot; (546.1mm) Full HD 1080p (1920x1080) TFT color, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector</td>
<td><strong>Light sensor</strong> None</td>
<td><strong>Multi-touch</strong> None</td>
<td><strong>Camera</strong> Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off</td>
<td><strong>Controls</strong> Monitor mode / computer mode button, volume up/down buttons, and power button</td>
<td><strong>Disk</strong> SATA 3.0Gb/s, 2.5&quot; Wide, 7200 rpm</td>
<td><strong>Optical</strong> DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable</td>
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## ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller

**Product Specifications Reference (PSREF)**

### Type-model

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
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<th>Multi-touch</th>
<th>Camera</th>
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<th>Graphics</th>
<th>PCIe Mini Card/ Media reader</th>
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<th>Keyboard/Mouse Global</th>
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</tbody>
</table>

### Positioning

- **Processor**: Intel® Core™ i5-4430S / Intel® Core™ i7-4770S
- **Implementation**: Processor in LGA1150 socket
- **Memory**: 16GB max.
- **Graphics**: NVIDIA GeForce GT 720A, Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Audio support**: High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2)
- **Bluetooth**: Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter
- **Optional Stand**: Monitor Stand / Optional Monitor Stand
- **Dimensions and VESA mount**: 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm
- **Power supply**: 180 watts, autosensing, 92% PSU
- **Color**: Business black color
- **VESA mount**: Support VESA mount (100mm)
- **Dimensions and weight**: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz

### Display

- **Max resolution**: 1920x1080 (HDMI)@60Hz
- **External digital monitor**: supports dual independent display
- **Internal digital monitor**: supports single independent display (Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz
- **Display angle**: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°
- **Camera**: Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
- **Controls**: Monitor mode / computer mode button, volume up/down buttons, and power button
- ** optional Multi-touch**: Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch
- **optional Controls**: Monitor mode / computer mode button, volume up/down buttons, and power button

### Chipset

- **Chipset**: Intel® HD Graphics 4600, 1600MHz DDR3 memory controller
- **Some**: SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
- **Some**: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- **Optical**: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
- **Onboard SATA**: Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
- **Media reader**: Optional 11-in-1 media card reader
- **Some**: SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
- **Some**: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- **Optical**: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
- **Onboard SATA**: Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar
- **Media reader**: Optional 11-in-1 media card reader

### Security

- **Security**: Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- **Power-on password**: Administrator password
- **Hard disk password**: Administrator password
- **Boot sequence control**: Boot without keyboard and mouse
- **Individual USB port disablement**: Individual USB port disablement

### Warranty

- **Limited Warranty**: 1-year limited warranty
- **Preloaded operating system**: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- **Ready to install applications**: (only some listed)
  - Rescue and Recovery™
  - Password Manager
- **Preloaded applications**: (only some listed)
  - ThinkVantage® Product Recovery
  - ThinkVantage System Update
  - ThinkVantage Communication Utility
  - ThinkVantage Device Experience
  - ThinkVantage AutoLock
  - Desktop Power Manager
  - View Management Utility
  - Lenovo Cloud Storage by SugarSync
  - Lenovo Solution Center
  - Lenovo Message Center Plus
  - Norton™ Internet Security
  - (30 days of virus definitions)
  - Adobe® Reader™
  - Skype™
  - Microsoft Office preloaded; purchase a product key to activate
  - Cyberlink PowerDVD (DVD±RW, DVD)
  - Cyberlink Power2Go (DVD±RW)
  - Cyberlink PowerProducer (DVD±RW)
  - Evernote
  - Lenovo Solutions for Small Business
  - Nitro Pro

### Additional Information

- **ENERGY STAR® 6.0-compliant**
- **GREENGUARD® certified RoHS-compliant**
- **Supports ThinkVantage Technologies**
- **For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet**

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**Lenovo (TRPL1-3) September 2013**

**See footnotes for important warranty information**

**US model(s) announced August 27, 2013**
10BA000MUS i5-4670S 4GBx1 21.5" FHD Touch 2.0M 500G 7200 DVD±RW GT 720A N2230 Media Frame USB None Win8 Pro64 08/27/13
10BA001MUS i5-4570S 4GBx1 21.5" FHD Touch 2.0M 500G 7200 DVD±RW GT 720A N2230 Media UltraFlex USB None Win8 Pro64 08/27/13

Type-model

ThinkCentre E93z (10BA) - Multi-touch (NVIDIA) - TopSeller (Win8)

Product Specifications Reference (PSREF)

Memory 16GB max,
Implementation Processor in LGA1150 socket

Audio support High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2),

Intel Processor Premium All-In-One PC for the enterprise Positioning

Premium All-In-One PC for the enterprise

Processor

Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Implementation

Intel Core™ i5-4670S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Turbo Boost 2.0 (3.8GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Processor in LGA1150 socket

Memory 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

Graphics NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4400/4600 in processor, and NVIDIA GeForce® GT 720A, PCI Express® x16, 1GB memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display;

Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz

Display 21.5" (54.61mm) Full HD 1080p (1920x1080) TFT color, wide viewing angle (+/- 85°), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector

Light sensor None

Multi-touch Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch

Camera Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

Controls Monitor mode / computer mode button, volume up/down buttons, and power button

Disk SATA 3.0Gb/s, 2.5" Wide, 7200 rpm

Optical DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

Onboard SATA two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar

Media reader Optional 11-in-1 media card reader

Chipset Intel B85 Express Chipset

Rear ports Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in

Side ports Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader

PCle Mini Card Two PCI Express® Mini Card slots

PCle WLAN 11b/g/n wireless, PCI Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

Bluetooth Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter

Ethernet One gigabit ethernet port, Intel I217-V, Wake on LAN®

Audio support High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio® v2 certified, Microsoft Lync™ certified

Intel AMT Security chip None

Keyboard Preferred Pro USB Keyboard (USB connector), Lenovo™ logo

Mouse Enhanced Optical USB Mouse, black, Lenovo logo

Power supply 180 watts, autoseensing, 92% PSU

Color Business black color

VESA mount Support VESA mount (100mm)

Dimensions and weight (without stand) Non-touch models (WxDxH): 21.02" X 19.1" X 15.20"; 534mm X 48.5mm X 386 mm

Touch models (WxDxH): 21.02" X 19.5" X 15.20"; 534mm X 49.6mm X 386 mm

14.55 lb (6.6 kg) in maximum configuration

16.31 lb (7.4 kg) in maximum configuration

Stand Optional Frame Stand:

Optional Monitor Stand:

Optional UltraFlex Stand: Adjustable between 10° and 65° (Tilt)

Adjustable between -5° and 45° (Tilt)

Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management

Limited Warranty 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

Preloaded operating system Windows® 8 Pro 64-bit

Web install applications (only some listed)

- Password Manager

Preloaded applications (only some listed)

- ThinkVantage System Update

- ThinkVantage AutoLock

- Desktop Power Manager

- View Management Utility

- Lenovo Cloud Storage by SugarSync

- Lenovo Solution Center

- Lenovo Support

- Lenovo Companion

- Norton Internet Security (30 days of virus definitions)

- Skype®

- Microsoft Office preloaded;

- purchase a product key to activate

- Cyberlink PowerDVD (DVD±RW, DVD)

- Cyberlink Power2Go (DVD±RW)

- Cyberlink PowerProducer (DVD±RW)

- Evernote®

- Lenovo Solutions for Small Business

- Nitro Pro

- AccuWeather

- Norton™ Studio

Security

- Security slot (in rear for attachment of optional Kensington™ MicroSaver® cable; Kensington lock also locks chasis)

- Power-on password

- Administrator password

- Hard disk password

- Boot sequence control

- Boot without keyboard and mouse

- Individual USB port disablement

ENERGY STAR® 6.0-compliant

RoHS-compliant

Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet;

For Lenovo service upgrade options, please go to S-TC sheet

See footnotes for important warranty information

US model(s) announced August 27, 2013

©Lenovo

TRPL1-4 September 2013
### Type-model

<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Multi-Touch</th>
<th>Camera (megapixel)</th>
<th>Disk SATA</th>
<th>Graphics</th>
<th>Mini Card</th>
<th>Media reader</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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<td>7200</td>
<td>DVD±RW</td>
<td>HD 4400</td>
<td>N2230</td>
<td>Media Frame</td>
<td>USB(slim)</td>
<td>Win7 Pro 64</td>
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<td>Media UltraFlex</td>
<td>USB(slim)</td>
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#### Positioning

- **Premium All-In-One PC for the enterprise**
- **Small and medium business (SMB) model(s), part of the US TopSeller® Program**
- **3-year limited warranty**

#### Processor

**Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller**
- **Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller**
- **Processor in LGA1150 socket**

#### Graphics

**Intel HD Graphics 4400/4600** in processor, uses main memory, DirectX 11.1, external digital monitor support via HDMI, supports dual independent display;
- **Max resolution:** 1920x1080 (panel) @ 60Hz; 1920x1080 (HDMI) @ 60Hz

#### Display

**21.5\" (546.1mm) Full HD 1080p (1920x1080) TFT color, wide viewing angle (+/- 85\°)**, LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector

#### Camera

Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off

#### Controls

- **Monitor mode / computer mode button**, volume up/down buttons, and power button

#### Disk

**SATA 3.0Gb/s, 2.5\" Wide, 7200 rpm**

#### Optical

**DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable**

#### Onboard SATA

Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar

#### Media reader

Optional 11-in-1 media card reader

#### Chipset

**Intel B85 Express Chipset**

#### Rear ports

Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in

#### Side ports

Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader

#### PCIe Mini Card

Two PCI Express® Mini Card slots

#### PCIe WLAN

**Some:** 11b/g/n wireless, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2

**Some:** 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

#### Bluetooth

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

#### Ethernet

One gigabit ethernet port, Intel I217-V, Wake on LAN®

#### Audio support

High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

#### Intel AMT

None

#### Security chip

None

#### Keyboard

**Some:** Lenovo® Slim New F5 USB Keyboard (USB connector), black

**Some:** Preferred Pro USB Keyboard (USB connector), Lenovo logo

#### Mouse

Enhanced Optical USB Mouse, black, Lenovo logo

#### Power supply

150 watts, autosensing, 85% PSU

#### Color

Business black color

#### VESA mount

Support VESA mount (100mm)

#### Dimensions and weight (without stand)

**Non-touch models (WxHxD):** 21.02" X 1.91" X 15.20"; 534mm X 48.5mm X 386 mm

**Touch models (WxHxD):** 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm

#### Stand

**Optional Frame Stand:** Adjustable between 10\° and 65\° (Tilt)

**Optional Monitor Stand:** Adjustable between -5\° and 45\° (Tilt)

**Optional UltraFlex Stand:** Tilt: 65\° back, 0\° forward; Lift: 110mm; Swivel: +/-90\°; supports recline mode (from an upright position to an angled plane) and cable management

#### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

#### Preloaded operating system

**Some:** Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

**Some:** Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit

#### Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

#### Preloaded applications (only some listed)

- ThinkVantage Productivity
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Device Experience
- ThinkVantage AutoLock
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Lenovo Solutions for Small Business
- Nitro Pro

#### Security

- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

#### ENERGY STAR® 6.0-compliant

EuP 2013

#### GREENGUARD® certified

RoHS-compliant

#### Supports ThinkVantage Technologies

For compatible accessories, please go to TC-AQP sheet.

For Lenovo service upgrade options, please go to S-TC sheet
ThinkCentre E93z (10BK) - Multi-touch (NVIDIA)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera (mega-pixel)</th>
<th>Disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Media reader</th>
<th>Stand type</th>
<th>Key-board/ Mouse</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10BK0007US i3-4430S</td>
<td>Intel Core i5-4430S</td>
<td>4GBx1</td>
<td>21.5&quot; FHD Touch</td>
<td>2.0M</td>
<td>2.0M</td>
<td>500G 9700</td>
<td>DVD±RW 720A</td>
<td>GT 720A</td>
<td>Media UltraFlex</td>
<td>None</td>
<td>(slim)</td>
<td>None</td>
<td>Win7 P64 DG Win 8.1</td>
<td>07/15/14</td>
</tr>
<tr>
<td>10BK0006US i3-4130</td>
<td>Intel Core i3-4130</td>
<td>4GBx1</td>
<td>21.5&quot; FHD Touch</td>
<td>2.0M</td>
<td>2.0M</td>
<td>500G 9700</td>
<td>DVD±RW 720A</td>
<td>GT 720A</td>
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<td>None</td>
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<td>None</td>
<td>Win7 P64 DG Win 8.1</td>
<td>07/15/14</td>
</tr>
</tbody>
</table>

- Small and medium business (SMB) model(s), part of the US TopSeller™ Program
- 1-year limited warranty

Positioning
Premium All-In-One PC for the enterprise

Processor
- Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache),
- Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- Intel Core i5-4430S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache),
- Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Processor in LGA1150 socket

Implementation

Memory
16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

Graphics
NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics,
- Intel HD Graphics 4400/4600 in processor, and
- NVIDIA GeForce GT 720A, PCI Express x16, 1GB memory, DirectX® 11, external digital monitor support via HDMI, supports dual independent display;
- Max resolution: 1920x1080 (panel)@60Hz; 1920x1080 (HDMI)@60Hz

Display
21.5" (546.1mm) Full HD 1080p (1920x1080) TFT color, wide viewing angle (+/- 85°),
- LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinity display,
- work as standalone monitor via HDMI-in connector

Light sensor
None

Multi-touch
Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch

Camera
- Camera on top of screen, 2.0-megapixel, fixed focus, supports 1080p, with dual array digital microphone, LED indicator, physical switch on/off
- Optional 11-in-1 media card reader

Displays

Disk
Some: SATA 3.0Gb/s, 2.5" Wide, 7200 rpm
Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

Optical
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
- Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector on planar

Media reader
Optional 11-in-1 media card reader

Chipset
Intel® B85 Express Chipset

Rear ports
- Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in
- Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader
- Two PCI Express Mini Card slots
- Two PCI Express Mini Card slots

PCle Mini Card
- Two PCI Express Mini Card slots
- Two PCI Express Mini Card slots

PCle WLAN
- Some: 11b/g/n wireless, Intel Centrino® Wireless-N 2230, Wi-Fi + BT4.0 combo, 2x2
- Some: 11b/g/n wireless, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo, 1x2
- Bluetooth 4.0, wireless network, Intel Wi-Fi + Bluetooth combo adapter
- Bluetooth 4.0, wireless network, Intel Wi-Fi + Bluetooth combo adapter

Ethernet
One gigabit ethernet port, Intel I217-V, Wake on LAN®,
- One gigabit ethernet port, Intel I217-V, Wake on LAN®,

Audio support
High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2),
- Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

Intel AMT
- Intel AMT None
- Intel AMT None

Security chip
- Security chip None
- Security chip None

Keyboard
- Lenovo® Slim New FS USB Keyboard (USB connector), black
- Lenovo® Slim New FS USB Keyboard (USB connector), black

Mouse
- Preferred Pro USB Keyboard (USB connector), Lenovo logo
- Enhanced Optical USB Mouse, black, Lenovo logo
- Ultrasilim Plus Wireless Mouse (2.4GHz via USB receiver), black
- Ultrasilim Plus Wireless Mouse (2.4GHz via USB receiver), black

Power supply
180 watts, autosensing, 92% PSU

Color
Business black color

VESA mount
Support VESA mount (100mm)

Dimensions and weight (without stand)
Non-touch models (WxDxH): 21.02" X 19.1" X 15.20"; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration
Touch models (WxDxH): 21.02" X 19.1" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration

Stand
Optional Frame Stand: Adjustable between 10° and 65° (Tilt)
Optional Monitor Stand: Adjustable between -5° and 45° (Tilt)
Optional UltraFlex Stand: Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management

Limited Warranty
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades available

See footnotes for important warranty information
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The TopSeller™ services are designed to make selling the popular services with TopSeller systems faster and easier. Channel partners should always use TopSeller services with TopSeller systems. TopSeller services part numbers typically provide enhanced discounts and incentives for channel partners. The TopSeller service delivered to the customer is identical to the service delivered using a standard service part number. In situations where a desired service is not offered under a TopSeller service part number or the sale requires a special bid process, use available standard service part numbers.

TopSeller services should always be offered by channel business partners with TopSeller hardware, unless the sale requires special bid pricing or the desired service is not offered as a TopSeller service part.

For more information see:
http://www2.partnerinfo.lenovo.com/partners/us/resources/salestoolkit.shtml

<table>
<thead>
<tr>
<th>TopSeller service upgrade options for ThinkCentre M series</th>
<th>TopSeller Priority Support</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ThinkCentre desktop with 1-year Onsite warranty</strong></td>
<td>• 24x7 support with priority routing and advanced level technicians</td>
</tr>
<tr>
<td>LOR = Lenovo Onsite Repair</td>
<td><strong>ThinkCentre desktop with 1-year Onsite warranty</strong></td>
</tr>
<tr>
<td>3-year LOR 9x5 Next Business Day 04W8710</td>
<td>Add to 3-year warranty coverage - 3-year Priority Support* 04W8721</td>
</tr>
<tr>
<td>4-year LOR 9x5 Next Business Day 04W8711</td>
<td>Add to 4-year warranty coverage - 4-year Priority Support* 04W8722</td>
</tr>
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<td><strong>ThinkCentre desktop with 3-year Onsite warranty</strong></td>
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</tr>
<tr>
<td>4-year LOR 9x5 Next Business Day 04W8712</td>
<td>Add to 4-year warranty coverage - 4-year Priority Support* 04W8722</td>
</tr>
</tbody>
</table>

| * Covered machine must have concurrent warranty coverage. |

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</tr>
<tr>
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</tr>
<tr>
<td><strong>ThinkCentre desktop with 3-year Onsite warranty</strong></td>
</tr>
<tr>
<td>4-year LOR 9x5 Next Business Day 04W8712</td>
</tr>
</tbody>
</table>
Partial list of Lenovo Services for ThinkCentre desktops


<table>
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<td>Models with 7-digit MTM</td>
<td>LOR = Lenovo Onsite Repair</td>
</tr>
<tr>
<td>2-year Onsite 9x5 Next Business Day</td>
<td>2-year Onsite 9x5 Next Business Day</td>
</tr>
<tr>
<td>3-year Onsite 9x5 Next Business Day</td>
<td>3-year Onsite 9x5 Next Business Day</td>
</tr>
<tr>
<td>Models with 10-digit MTM</td>
<td></td>
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<td>4-year Onsite 9x5 Next Business Day</td>
<td></td>
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</tbody>
</table>

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Lenovo Priority Support for enterprise customers

- 24x7 support with priority routing and advanced level technicians

<table>
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<th><strong>ThinkCentre desktop with 1-year Onsite warranty</strong></th>
<th><strong>ThinkCentre desktop with 3-year Onsite warranty</strong></th>
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<td></td>
<td>Add to 4-year warranty coverage - 4-year Priority Support*</td>
</tr>
<tr>
<td></td>
<td>Add to 5-year warranty coverage - 5-year Priority Support*</td>
</tr>
</tbody>
</table>

* Covered machine must have concurrent warranty coverage.
## Disclaimer

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PSREF books for the withdrawn systems:
http://www.lenovo.com/psref/psrefs_withdrawn.html
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Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

Limited onsite service systems are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

CD and DVD list maximum rates; rates are variable and are often less than the maximum.

Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

Lenovo Services: These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. P&L means parts and labor. P/U means pick-up. See lenovo terms and conditions for complete details and restrictions.

International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

Modem speeds: Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

For combination drives, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.

The IEEE 802.11n specification (MIMO) has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

Wireless capability: Requires compatible wireless-enabled options sold separately.

Response times may vary. May exclude some holidays. Telephone support may be subject to additional charges.

Update Connector is available at no charge to registered customers during the limited warranty period. Line charges may apply.

Embedded Security Subsystem works with optional VPN software.
18 Embedded Security Subsystem may require download of client security software from the Web.

19 Asset ID allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.

20 Operating System: Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

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