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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
  ThinkCentre M83 Tower new models announced January 2015

► Specifications update
  ThinkCentre Tiny-In-One 23 specifications is updated for ThinkCentre Tiny-in-One Power On feature
ThinkCentre Tiny-in-One (TIO) 23

Product Specifications Reference (PSREF)

Model
10DQPA6++ / 10DQPAT6++

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

Compatible Tiny
M93/p Tiny, M83 Tiny, M73 Tiny, or M53 Tiny

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

Viewable image size
23.0 in (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)
265mm

Dot/Pixel per Inch
96 dpi

Brightness
250 nits or cd/m² (typical)

Contrast ratio
1000:1 (typical)

Pixel response time
5ms (typical)

Color gamut
72%

Anti-glare
Yes

Horizontal frequency
30 to 83kHz

Vertical frequency
50 to 75Hz

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

Preset resolutions
- 640x350 @ 70Hz
- 640x480 @ 60Hz, 66Hz, 72Hz, 75Hz
- 720x400 @ 70Hz
- 800x600 @ 60Hz, 72Hz, 75Hz
- 1024x768 @ 60Hz, 70Hz, 75Hz
- 1152x864 @ 75Hz
- 1280x800 @ 60Hz
- 1280x1024 @ 60Hz, 72Hz, 75Hz
- 1366x768 @ 60Hz
- 1440x900 @ 60Hz, 75Hz
- 1600x1200 @ 60Hz, 70Hz, 75Hz
- 1680x1050 @ 60Hz
- 1920x1080 @ 50Hz

Presets / user settings
Presets: 25; user settings: 25

On screen display
Mode-switching (TIO mode / standalone monitor mode, switches video/audio input source) / Back button, Left shift button, Right shift / Brightness button, Selection button / Menu button, Power button

Tiny-in-One Power On
Pressing Alt + P on keyboard or pressing Power button positioned on TIO can turn on both TIO and Tiny (only some Tiny support, see compatible list)

USB ports
Front: two USB 3.0 (only when M93/p or M83 installed) or two USB 2.0 (only when M53 installed)
Side: two USB 2.0, one USB 2.0 upstream port (connect to PC), one mini USB 2.0 port for accessories (on top)

Monitor connectors
3-in-1 Cable
Undetachable 3-in-1 cable (Power connector, USB, DisplayPort), only for Tiny to be installed (optional, all models)

Audio port
Security keyhole for attachment of optional cable lock (Kensington lock compatible)

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
TIO 23 with 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
TIO 23 with stand
TIO 23 with Tiny, stand, and ODD box installed
(approximately)
lb / kg
15.4lb / 7kg
18.9lb / 8.58kg

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

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

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 Replacer, IWS (International Warranty Service) / service upgrades available

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

VESA-compliant
VESADDC2B/CI, VESA DPMS-compliant

Ergonomics
ISO 9241-307

Emission standards
MPR-2, FCC Class B

Environmental
TCO (TCO Certified Edge 1.1), WEEE, RoHS, ENERGY STAR® 6.0

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

Compatible Tiny

Model
M93/p Tiny
M83 Tiny
M73 Tiny
M53 Tiny

Processor
Intel® Core™ i7 / i5 / i3 (HSW 35 W)
Intel Pentium® LV (HSW 35 W)
Intel Celeron LV (HSW 35 W)
Intel Celeron

OS support
OS Support

Memory
2 SO-DIMM,
up to 16GB
1 SO-DIMM,
up to 8GB

Storage
HDD / SSHD / SSD
HDD / SSHD / SSD / DOM

Graphics
Intel HD Graphics or Intel HD Graphics 4400/4600
Intel HD Graphics

USB ports
5 USB 3.0
1 opt rear USB 2.0

2 USB 3.0 (front, 2 rear)
1 opt rear USB 2.0

2 USB 3.0 (front, 2 rear),
1 opt rear USB 2.0

2 USB 3.0 (front, 2 rear),
1 opt rear USB 2.0

2 USB 3.0 (front, 2 rear),
1 opt rear USB 2.0

Optical
Optical slim ODD box (DVD or DVD±RW)

Security
TPM 1.2, Asset ID, Kensington lock

Manageability
vPro, IAAIT 9.0

Multi monitor
Up to 3
Up to 3
Up to 2

Up to 3
Up to 2
Up to 2

VGA + DP +
VGA + DP +
VGA + DP +

HDMI/2nd DP
HDMI/2nd DP
HDMI/2nd DP

HDD APS
Support
No

USB KB Power On
Support

ThinkCentre Tiny-in-One Power On Compatible list

Model
M93/p Tiny
M83 Tiny
M73 Tiny
M53 Tiny

Turn on TIO and Tiny together via Alt + P on USB KB
All models
All models
All models
All models

Turn on TIO and Tiny together via TIO Power Button
TIO models
All models
TIO models
All models

Lenovo

See footnotes for more detailed information
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(G-LEGO1) January 2015
ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client

Lenovo ThinkCentre M32 Thin Client (inside view)

Lenovo ThinkCentre M32 Thin Client
## ThinkCentre M32 (10BV) - Thin Client (TopSeller) - 3-year onsite

<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</th>
<th>Floor stand</th>
<th>Key- board/ Mouse</th>
<th>ENERGY STAR 6.0</th>
<th>Global (G)</th>
<th>OS</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10BV000C++</td>
<td>Celeron 847</td>
<td>2GBx1</td>
<td>8G DOM Card</td>
<td>None</td>
<td>Intel HD Graphics</td>
<td>None</td>
<td>Floor stand</td>
<td>USB</td>
<td>ES6.0</td>
<td>None</td>
<td>WES 7</td>
<td>12/10/13</td>
<td></td>
</tr>
<tr>
<td>10BV000G++</td>
<td>Celeron 847</td>
<td>2GBx1</td>
<td>1G DOM Card</td>
<td>None</td>
<td>Intel HD Graphics</td>
<td>None</td>
<td>Floor stand</td>
<td>USB</td>
<td>None</td>
<td>None</td>
<td>LeTOS</td>
<td>12/10/13</td>
<td></td>
</tr>
</tbody>
</table>

Country Code**:++**: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IL (Israel), IS (Iceland), IT (Italy), NL (Belgium), MD (Denmark), NL (Netherlands), LU (Luxembourg), NO (Norway), SE (Sweden), CH (Switzerland), NL (Netherlands), PT (Portugal), SE (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

<table>
<thead>
<tr>
<th>Preloaded operating system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some: Genuine Windows® Embedded Standard 7 (WES 7)</td>
</tr>
<tr>
<td>Some: LeTOS (Lenovo Terminal Operating System, Linux-based)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Network-based Thin Client Management Tool</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenovo Thin Client Manager (LTM™)</td>
</tr>
<tr>
<td>“A license is included with the purchase of M32 and the utility is downloadable from website</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Security slot (in rear for attachment of optional Kensington® MicroSaver® cable)</td>
</tr>
<tr>
<td>• Power-on password</td>
</tr>
<tr>
<td>• Administrator password</td>
</tr>
<tr>
<td>• Boot sequence control</td>
</tr>
<tr>
<td>• Boot without keyboard and mouse</td>
</tr>
<tr>
<td>• Individual USB port disablement</td>
</tr>
<tr>
<td>• Serial port and parallel port disablement</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Protocols</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citrix: ICA, HDX (compatible with XenDesktop and XenApp)</td>
</tr>
<tr>
<td>Microsoft: RDP, RemoteFX (WES 7 models only), RDS</td>
</tr>
<tr>
<td>VMware: VMware Horizon View through RDP, VMware Horizon View through PCoIP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Limited Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-years, limited onsite service</td>
</tr>
</tbody>
</table>

See footnotes for important warranty information

WE model(s) announced December 10, 2013

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(G-CLVL1-2) December 2013
<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>Key-board/Mouse</th>
<th>ENERGY</th>
<th>Global (G)</th>
<th>OS preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10BM0009++</td>
<td>Celeron 807 2GBx1 1G DOM Card None Intel HD Graphics DP to DVI Floor stand</td>
<td>USB None</td>
<td>G</td>
<td>P</td>
<td>LeTOS</td>
<td>09/03/13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10BM000A++</td>
<td>Celeron 807 2GBx1 8G DOM Card None Intel HD Graphics DP to DVI Floor stand</td>
<td>USB ES6.0</td>
<td>G</td>
<td>P</td>
<td>WES 7</td>
<td>09/03/13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10BM000B++</td>
<td>Celeron 807 4GBx1 8G DOM Card None Intel HD Graphics DP to DVI Floor stand</td>
<td>USB ES6.0</td>
<td>G</td>
<td>P</td>
<td>WES 7</td>
<td>09/03/13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10BM0017++</td>
<td>Celeron 847 2GBx1 1G DOM Card None Intel HD Graphics DP to DVI Floor stand</td>
<td>USB None</td>
<td>G</td>
<td>P</td>
<td>LeTOS</td>
<td>12/24/13</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10BM0018++</td>
<td>Celeron 847 2GBx1 8G DOM Card None Intel HD Graphics DP to DVI Floor stand</td>
<td>USB ES6.0</td>
<td>G</td>
<td>P</td>
<td>WES 7</td>
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<td>Celeron 807 4GBx1 8G DOM Card None Intel HD Graphics DP to DVI Floor stand</td>
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<td>G</td>
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<td>WES 7</td>
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Note: models listed above might not be available in all WE countries

- 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)
- 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
  - .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

3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

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

(G-CLVL1-1) January 2014
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>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Celeron® J1000 Series for Desktop or Intel Pentium® Processor J2000 Series for Desktop</td>
<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>Celeron J1800</td>
<td>2 / 2</td>
<td>2.58 / 2.41 GHz</td>
<td>2MB</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>

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

### Chipset

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-D or DisplayPort to HDMI monitor cable

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-D or DisplayPort to HDMI monitor cable

### Monitor cable

- ThinkCentre M53 Tiny Platform Specifications
- Monitor cable

### Storage

Some:
- 8GB or 16GB / DOM (Disk On Module) Card
- SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
- 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
- external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
- external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB
- SATA 3.0Gb/s controller, one connectors on planar

### Optical

Onboard SATA Media reader

None

### 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

### Audio support

High Definition (HD) Audio, Realtek ALC223 / 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
- 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EEE, 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

### Bluetooth™

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

### Ethernet Modem

None

### Manageability

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

### 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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

### Keyboard

Some:
- Preferred Pro USB Keyboard (USB connector), Lenovo logo
- UltraSlim Plus Wireless Keyboard (2.4GHz via USB receiver), black
- UltraSlim Plus Wireless Mouse (2.4GHz via USB receiver), black

Some:
- Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
- Enhanced Optical USB Mouse, black, Lenovo logo

Some:
- Enhanced Optical USB Mouse, black, Lenovo logo

### Mouse

Some:
- Preferred Pro USB Keyboard (USB connector), Lenovo logo
- 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
- UltraSlim Plus Wireless Mouse (2.4GHz via USB receiver), black

### Mechanical

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

### VESA mount

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

### Floor Stand

Optional system floor stand for vertical orientation

### 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 downgrade rights in Windows 8.1 Pro 64-bit
- Windows 8.1 with Bing 64-bit
- Windows 8.1 Professional (for Win7)
- Windows 8.1 64-bit

Preloaded applications (only some listed)

- Microsoft Office preloaded; Windows 8.1 with Bing 64-bit
- Windows 8.1 64-bit
- Windows 8.1 Pro 64-bit
- Windows 8.1 Professional (for Win7)

Recovery applications

- Windows 8.1 Professional (for Win7)
- Windows 8.1 64-bit
- Windows 8.1 with Bing 64-bit

### Environment

ENERGY STAR® 6.0 (for Windows models only);

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

### Accessories

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

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>External</th>
<th>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>Global</th>
<th>Ann Date (mm/yy)</th>
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<tr>
<td>10DC0005++</td>
<td>Pentium J2900 4GBx1</td>
<td>Intel HD 500GB 5400</td>
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<td>RTL8723BE</td>
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<td>Mount</td>
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<td>Speaker</td>
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<td>USB</td>
<td>Speaker</td>
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<td>Win7 P64 D8 Win8.1 1-onsite</td>
<td>No</td>
<td>09/14</td>
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<td></td>
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</table>

### 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-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
- 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

### Monitor cable

- Onboard SATA Media reader

### 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

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

### Bluetooth

- 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

### Environment

- ENERGY STAR® 6.0 (for Windows models only);

### Accessories

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

---

*Note: models listed above might not be available in all WE countries*

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**See footnotes for more detailed information**

[Country Code]++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Isreal), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

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

### Manageability

- 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

- 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 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

### Power supply

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

### Preload

- Some: Windows® 7 Professional 64 preinstalled through 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

### 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

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(G-MSL1-1) September 2014
## ThinkCentre M53 Tiny (10DE) - TopSeller

### Product Specifications Reference (PSREF)

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<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>Keyboard/ Mouse</th>
<th>Internal Speaker</th>
<th>Power Supply</th>
<th>Kensington Cable Lock</th>
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<th>Ann Date (mm/yy)</th>
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### Note:
- 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 display: 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
- Optical: 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, on connectors panel

### Optical Drive
- Some: 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 port 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

### 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 adapter

### Bluetooth
- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN® None

### Preload
- Some: Windows® 7 Professional 64 preinstalled through 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: LeITOS (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
### ThinkCentre M53 Tiny (10DB)

**Country Code**+:+  
AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

**Model**

<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>
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<th>Global</th>
<th>Ann Date (mm/yyyy)</th>
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<td>None</td>
<td>Switch None</td>
<td>Mount USB Speaker 65W</td>
<td>Cable</td>
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<td>DG Win8.1 3-onsite</td>
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<td>Switch None</td>
<td>Mount USB Speaker 65W</td>
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**Chipset**

<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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</thead>
<tbody>
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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>
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<tr>
<td>Pentium J2900</td>
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<td>2.58 / 2.41 GHz</td>
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<td>Intel HD</td>
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**Graphics**

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<th>Memory</th>
<th>Non-parity</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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<tbody>
<tr>
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**Monitor cable**

<table>
<thead>
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<th>Monitor</th>
<th>Cable Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional</td>
<td>DisplayPort to DVI-I or DisplayPort to HDMI monitor cable</td>
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**Memory**

<table>
<thead>
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<th>Storage</th>
<th>Memory</th>
<th>Non-parity</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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<tbody>
<tr>
<td>Some: 8GB or 16GB / DOM (Disk On Module) Card</td>
<td>Some: SATA 3.0Gb/s, 2.5&quot; Wide, 5400 or 7200 rpm</td>
<td>Some: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 3.0Gb/s, 2.5&quot; wide</td>
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<td></td>
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<tr>
<td>Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5&quot; Wide</td>
<td>Some: external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB</td>
<td>Some: external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB</td>
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**Front ports**

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<tr>
<th>PortTypes</th>
<th>Always On / Powered</th>
<th>USB 2.0.1.0</th>
<th>Microphone</th>
<th>USB Type-C (optional)</th>
<th>Power</th>
<th>RS232 (optional)</th>
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</thead>
<tbody>
<tr>
<td>One USB 3.0</td>
<td>(Always On / Powered)</td>
<td>one USB 2.0.1.0</td>
<td>one microphone (microphone jack)</td>
<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)</td>
<td>One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®</td>
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**Rear ports**

<table>
<thead>
<tr>
<th>PortTypes</th>
<th>Always On / Powered</th>
<th>USB 2.0.1.0</th>
<th>Microphone</th>
<th>USB Type-C (optional)</th>
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<tbody>
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<td>One USB 2.0</td>
<td>(Always On / Powered)</td>
<td>one USB 2.0.1.0</td>
<td>one microphone (microphone jack)</td>
<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)</td>
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**I/O box**

<table>
<thead>
<tr>
<th>I/O Box</th>
<th>Extended</th>
<th>Four USB 2.0 (two on front and two on rear)</th>
<th>Two serial and two PS2 (for keyboard and mouse), via USB 2.0 port</th>
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<tbody>
<tr>
<td>Optional external I/O box, extends four USB 2.0</td>
<td>Two on front and two on rear, one serial, and two PS2 (for keyboard and mouse), via USB 2.0 port</td>
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**Audio support**

<table>
<thead>
<tr>
<th>Definition</th>
<th>Audio Interface</th>
<th>Internal (optional)</th>
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<tbody>
<tr>
<td>High Definition (HD) Audio</td>
<td>Realtek ALC263</td>
<td>optional internal speaker (1.5 watt)</td>
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</table>

**WLAN**

<table>
<thead>
<tr>
<th>IEEE</th>
<th>Standard</th>
<th>Protocol</th>
<th>Speed</th>
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<td>wireless, Realtek RTL8723BE, Wi-Fi</td>
<td>BT 4.0 combo</td>
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<tr>
<td>802.11g</td>
<td>n</td>
<td>wireless, Realtek RTL8192EE, Wi-Fi</td>
<td>BT 4.0 combo</td>
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<tr>
<td>802.11n</td>
<td>g/n</td>
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<td>BT combo</td>
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**Bluetooth**

<table>
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<th>4.0</th>
<th>wireless, integrated in Wi-Fi and Bluetooth combo adapter</th>
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**Ethernet**

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<thead>
<tr>
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<th>Description</th>
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<tbody>
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<td>Realtek RTL8111GN, Wake on LAN®</td>
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See footnotes for more detailed information © Lenovo

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<table>
<thead>
<tr>
<th>Model</th>
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<th>External Optical / I/O box</th>
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### 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>
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<td>DDR3L-1333</td>
<td>Intel HD</td>
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</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, on one VGA, one DisplayPortTM supports dual independent display
- Maximum resolution: 2560x1600 (DisplayPort) @60Hz; 1920x1200 (VGA) @60Hz
- Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor display

### Monitor cable

- Optional external I/O box with slim DVD-ROM, 12.7mm high, tray-in, via USB
- Optional external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB
- Some: Kensington MicroSaver® cable
- Power-on password
- Administrator password

### 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-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)
- One 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)

### Rear ports

- 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

- Optional external I/O box, extends four USB 2.0 (two on front and two on rear), via USB 2.0 port

### Audio support

- High Definition (HD) Audio, Realtek ALC268 / 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

### Ethernet

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

### Preload

- Some: Windows® 7 Professional 64 preinstalled through 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

---

**Note:** For more detailed specifications, please see ThinkCentre M53 Tiny Platform Specifications sheet.
<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>
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<th>Ann Date (mm/yy)</th>
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### Processor

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<th>Integrated Graphics</th>
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### 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-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

### 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 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 RTL8129EE, Wi-Fi + BT 4.0 combo, 2x2
Some: 11b/g/n, Intel Centrino Wireless-N 7260, Wi-Fi + BT combo adapter
Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
One gigabit ethernet port, Realtek RTL8111GN, Wake on LAN®

### Bluetooth

None

### 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.
### ThinkCentre M53 Tiny (10ED) - Thin Client (TopSeller)

#### Product Specifications Reference (PSREF)

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<tr>
<th>Model</th>
<th>Processor</th>
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<th>Graphics</th>
<th>Storage</th>
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<th>Optional Port</th>
<th>Monitor Cable</th>
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<th>Floor Stand</th>
<th>VESA Mount</th>
<th>Key-board/ Mouse</th>
<th>Internal Speaker</th>
<th>Power Supply</th>
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</table>

#### Processor

- **Intel® Celeron® Processor J1000 Series**: for Desktop
- **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

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

#### 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, one controllers 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 watts)

#### 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 adapter

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

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

#### Bluetooth™

None

#### Environment

- **ENERGY STAR® 6.0 (for Windows models only)**
- **GREENGUARD™, RoHS-compliant, Cisco EnergyWise compatible, ENERGY STAR®**
- **For compatible accessories, please go to TC-AQP sheet**

### Country Code++:

- AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

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

### Accessories

For compatible accessories, please go to TC-AQP sheet

See footnotes for more detailed information

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(G-MSL1-5) December 2014
## ThinkCentre M53 Tiny (10ES) - TIO (Thin Client) - TopSeller

### Product Specifications Reference (PSREF)

### Model | Processor | Memory | Graphics | Storage | Optical / I/O box | WLAN | Optional Port | Monitor Cable | Chassis Intrusion Switch | Floor Stand | VESA Mount | Key-board/ Mouse | Internal Speaker | Power Supply | Kensington Cable Lock | Preload | Base Warranty (year) | Ann Date (mm/yy)
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
10ES0000++ Celeron J1800 2GBx1 | Intel HD 8GB DOM Card | None | None | None | USB Speaker | WES7 | None | None | None | None | None | None | None | None | None | LeTOS | 3-onsite | No / 01/15
10ES0001++ Celeron J1800 4GBx1 | Intel HD 16GB DOM Card | None | None | None | USB Speaker | None | None | None | None | None | None | None | None | None | None | LeTOS | 3-onsite | No / 01/15
10ES0002++ Celeron J1800 2GBx1 | Intel HD 8GB DOM Card | None | None | None | USB Speaker | WES7 | None | None | None | None | None | None | None | None | None | LeTOS | 3-onsite | No / 01/15
10ES0003++ Celeron J1800 4GBx1 | Intel HD 16GB DOM Card | None | None | None | USB Speaker | None | None | None | None | None | None | None | None | None | None | WES7 | 3-onsite | No / 01/15

### Country Code“++”: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

* 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, DirectIX 11, one VGA, one DisplayPort™, supports dual independent display
- 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

### 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 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-5), 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: 2.4GHz, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

### Ethernet Modem

- None

### Key-board/ Mouse

- Internal

### Internal Speaker

- None

### Power Supply

- WES7

### Kensington Cable Lock

- None

### Preload

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

### Base Warranty (year)

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

### Limited warranty

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

### 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

(G-MSL1-7) January 2015
### ThinkCentre M53 Tiny (10EC) - Thin Client

#### Product Specifications Reference (PSREF)

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<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>
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<th>Keyboard/ Mouse</th>
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#### Country Code++:
- AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

* 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 Celeron J1800 2/2 2.58 / 2.41 GHz 1MB DDR3L-1333 Intel HD

**Monitor cable**
- 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-D or DisplayPort to HDMI monitor cable

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

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

**Optical**
- Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" Wide
  - external optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB
  - Some: optional external optical box with slim DVD±RW, 12.7mm high, tray-in, via USB
  - 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**
- One optional 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**
- 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1

**Bluetooth™**
- 11b/g/n, Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo

**Ethernet**
- 4.0 wireless, 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
### ThinkCentre M53 Tiny (10ER) - TIO (Thin Client)

#### Product 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>
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<th>Monitor Cable</th>
<th>Chassis Intrusion Switch</th>
<th>Floor Stand</th>
<th>VESA Mount</th>
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#### Note:
- models listed above might not be available in all WE countries

### 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, on some models
- Intel one DisplayPort™ (supports dual independent display)
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1200 (VGA)@60Hz
- Optional DisplayPort to DVI-D or DisplayPort to HDMI monitor cable

### Monitor cable
- Some:
- Intel Graphics in processor, uses main memory, DirectX
- Intel one-chip platform, integrates processor core, graphics, memory controller, and Platform Controller Hub (PCH) in one chip

### 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
- SATA 3.0Gb/s, 2.5" Wide, 5400 or 7200 rpm
- 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
- 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
- One 3.0 USB (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

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

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

### Bluetooth™ Ethernet Modem
- Some:
- 11b/g/n wireless, Realtek RTL8192EE, Wi-Fi + BT 4.0 combo, 2x2
- Intel Centrino® Wireless-N 7260, Wi-Fi + BT combo
- 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

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**See footnotes for more detailed information**

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(G-MSL1-8) January 2015
ThinkCentre M73 Tiny, Small, Mini Tower

ThinkCentre M73 Tiny with Optional WLAN

ThinkCentre M73 Tiny with optional I/O Box

ThinkCentre M73 Tiny with optional External Optical Box

ThinkCentre M73 Tiny with ThinkVision Monitor

ThinkCentre M73 Tiny with ThinkVision Monitor

ThinkCentre M73 Tiny
ThinkCentre M73 Tiny, Small, Mini Tower II
### ThinkCentre M73 Tiny (10AY) - TopSeller

#### Product Specifications Reference (PSREF)

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<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>
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#### Positioning

**Processor**
- **Intel** Pentium® G3220T Processor (2 cores / 2 threads, 2.6GHz, 3MB cache), Intel HD Graphics, 1333MHz DDR3 memory controller
- **Intel Pentium G3240T Processor** (2 cores / 2 threads, 2.7GHz, 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
- **Intel Core i3-4150T Processor** (2 cores / 4 threads, 3.6GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz 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, 1600MHz DDR3 memory controller
- Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- Intel HD Graphics 4400, 1650MHz DDR3 memory controller

**DP dongle**
- None

**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

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

**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 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 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

**Blutooth**
- None

**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

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

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

**Mechanical**
- Thin (1L), business black color, metal case
- With VESA mount & optical box:
  - 7.0" W X 7.2" D X 1.4" H
  - 7.2" W X 7.2" D X 2.55" H
  - 179mm W X 182mm D X 34.5mm H
  - 184mm W X 182mm D X 65mm H
  - 2.9 lb (1.3 kg), weight may vary by configuration
  - 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information ©Lenovo (G-MLM1N-1) July 2014
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory**</th>
<th>SATA disk GB rpm</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
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Country Code**+**: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IJ (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

Positioning Processor

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<th>Processor</th>
<th>Essential business features, exceptional value</th>
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</table>

Preloaded operating system

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

EPEAT® Gold rating

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

Supports ThinkVantage Technologies
ThinkCentre M73 Tiny (10DM) - TIO (GMP)

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</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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Country Code**:++*: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

### 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 8 Professional 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
- 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)

### 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 2.3” 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. 5 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

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(G-MLM1N-3) October 2014
**ThinkCentre M73 Tiny (10DK) - Thin Client**

**Product Specifications Reference (PSREF)**

<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>
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**Country Code**: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

---

**Positioning**

- Essential business features, exceptional value

**Processor**

- Intel® Celeron® G1840T Processor (2 cores / 2 threads, 2.5GHz, 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, 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)

**Disk**

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

**External optical / SATA controller**

- Some: Slim DVD burner box, SATA 1.5Gb/s, 12.7mm high, tray-in, via USB 2.0

**Onboard SATA**

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

**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 Centrino® Wireless-N 105, 1x1

**Audio**

- High Definition (HD) Audio, Realtek ALC893 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, 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
  - 5.1 lb (2.3 kg), weight may vary by configuration

**Limited Warranty**

- 3-years, limited onsite service, 5 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

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(G-MLM1N-4) December 2014

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
  - Adobe Reader
  - 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

For compatible accessories, please go to TC-AQP sheet; For Lenovo service upgrade options, please go to S-TC sheet
ThinkCentre M73 Small (10B4) - ES 6.0 (GMP)

Preloaded operating system

- Some: Windows® 7 Home Premium 64
- 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 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)
- Security slot (in rear for optional security slot)
  - Padlock loop (in rear for opt padlock)
- Administrator password
- Power-on password
- Hard disk password
- Hard disk password
- 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

GreenGUARD® certified
- ROHS-compliant

Supports ThinkVantage Technologies
### ThinkCentre M73 Mini Tower (10B1) - ES 6.0 (GMP)

#### 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 VLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Chassis Intrusion switch</th>
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<td>G P</td>
<td>Win7 P64 DG Win8.1</td>
<td>07/08/14</td>
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</table>

#### 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 i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 16000MHz 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 i5-4590 Processor (4 cores / 3 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), 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

#### Graphics
- **Intel HD Graphics** or **Intel HD Graphics 4400/4600** in processor, uses simple memory controller, one VGA, one DisplayPort™, supports dual independent display;
- Maximum resolution: 2560x1600 (DisplayPort) @60Hz, 1920x1200 (VGA) @60Hz (Reduced Blanking)
- **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
- **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
- Some: Super Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive

#### Optical
- SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset
- 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**

#### 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
- Norton™ Security
- Lenovo Resource拯救 (Reduced Blanking)
- 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 look 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
- 22.7 lb (10.2 kg)
- Handle on top front
- Highlighted optical drive button for easy access

#### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

*See footnotes for important warranty information ©Lenovo (G-MLM1T-1) July 2014*
ThinkCentre M72z (3543) - TopSeller (Win 8)

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<th>PS/2 port</th>
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</table>

Positioning
Processor
Mainstream All-In-One PC for the enterprise

Implementation
Processor in LGA1155 socket

Memory
16GB max, 8GB max, 4GB max, 2GB max

Graphics
Intel HD Graphics or Intel HD Graphics 2500 in processor, uses main memory, external digital monitor support via DisplayPort, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @ 60Hz

DP dongle
None

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

Multi-touch
None

Camera
Some: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off

Controls
Front facing buttons for brightness up/auto, brightness down, and power on/off

Disk
SATA 3.0Gb/s, 3.5" Wide, 7200 rpm

Optical
DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

Media reader
7-in-1 Single Slot SD media reader

Chipset
Intel H61 Express Chipset

Rear ports
Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

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

PCIe Mini Card
One PCI Express Mini Card slot

PCIe WLAN
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 Intel 2230 Wi-Fi + Bluetooth combo adapter

Ethernet
One gigabit ethernet port, Realtek® RTL8111E-VB

Audio
High Definition (HD) Audio, Realtek ALC269Q

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), black, Lenovo® logo

Mouse
Some: Enhanced Optical USB Mouse, black, Lenovo® logo

Power supply
150 watts, autosensing, 85% PSU

Machine
Model(s) with Non multi-touch, Frame stand:
- Business black color
- 20.0" W x 4.0" D x 16.2" H
- 507mm W x 101mm D x 411mm H (including stand)
- 14.6 lb (6.6 kg) in maximum configuration
- Handle in rear, removable feet
- Support VESA mount (100mm)

Model(s) with Non multi-touch, Monitor stand:
- Business black color
- 20.0" W x 8.9" D x 17.0" H
- 507mm W x 227mm D x 431mm H (including stand)
- 18.5 lb (8.4 kg) in maximum configuration
- Tilt: -5° forward, Lift: 110mm; Swivel: +/-45°
- Support VESA mount (100mm)

Limited Warranty
1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

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

Preloaded applications (only some listed)
- Windows 7 models
  - ThinkVantage® Product Recovery
  - ThinkVantage Communication Utility
  - ThinkVantage Power Manager
  - Lenovo® Message Center Plus
  - RapidBoot HDD Accelerator
  - Lenovo SimpleTap
  - Adobe® Reader
  - Corel® Burn.Now™ (DVD±RW)
  - Corel® Studio 10
  - Corel® MovieFactory™ (DVD±RW)
  - Intel® Video Window® (DVD±RW)

- Windows 8 models
  - Lenovo Support
  - Lenovo Settings
  - Lenovo Companion
  - Lenovo Cloud Storage
  - Norton® Security
  - AccuWeather
  - Evernote®
  - Cyberlink Power2Go® (DVD±RW)
  - Cyberlink PowerProducer® (DVD±RW)

- All models
  - ThinkVantage System Update
  - ThinkVantage Automatic lock Utility
  - Lenovo Solution Center
  - View Management Utility
  - Norton Internet Security
  - Microsoft® Office preloaded; purchase a product key to activate
  - Skype™

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® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information

WE models announced October 23 or November 13, 2012 or March 5, May 28, or June11, 2013

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(G-MTG11-8) June 2013
## ThinkCentre M72z (3549)

<table>
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<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Chassis intrusion switch</th>
<th>Serial port</th>
<th>PS/2 port</th>
<th>Stand type</th>
<th>Keyboard/ Mouse</th>
<th>Global</th>
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<td>USB</td>
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<td>Pro 64 06/19/12</td>
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<td>Frame</td>
<td>2.4G</td>
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<td>Pro 64 06/19/12</td>
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</table>

### Preloaded operating system
- **Genuine Windows 7 Professional 64**

### Ready to install applications
- Rescue and Recovery
- Password Manager
- Business-in-a-Box

### Preloaded applications
- ThinkVantage Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- 
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton Internet Security

### Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington MicroSaver cable; Kensington lock also locks chassis)

### Limited Warranty
- **1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available**

---

- **● 1-year limited warranty**

---

**Contact information**
- Phone: 1-800-772-2227
- Fax: 1-800-528-6104
- Email: support@lenovo.com
- Website: www.lenovo.com/support

---

**Prepaid return label**
- Mail to: Lenovo Return Fulfillment
- Address: P.O. Box 711111, Dallas, TX, 75371-3104
- Use prepaid return label on outside of package
- Include a copy of the packing slip

---

**Limited Warranty**
- **1-year, limited warranty, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available**

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**See footnotes for important warranty information**

WE models announced June 19, 2012

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(G-MTGI1-4) March 2013
## ThinkCentre M72z (3554)

### Type-model  Processor  Memory  Graphics  Memory  Chassis intrusion switch  Serial port  Stand type  Keyboard/ Mouse  Global  Win7 preload  Ann date (mm/dd/yy)
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<th>Stand type</th>
<th>Keyboard/ Mouse</th>
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<td>Frame</td>
<td>2.4G</td>
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### Positioning
- Mainstream All-In-One PC for the enterprise
- Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache), integrated Intel HD Graphics, 1066MHz dual-channel DDR3 memory controller, Virtualization Technology
- Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000,
- Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD 2000 Graphics,
- Intel HD Graphics 2000 Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
- Processor in LGA1155 socket

### Graphics
- Intel HD Graphics or Intel HD Graphics 2000 in processor, uses main memory, DirectX® 10.1, external digital monitor support via DisplayPort™,
- Supports dual independent display, Maximum resolution: 2560x1600 (DisplayPort) @60Hz

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

### Multi-touch
- None

### Camera
- Some: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off

### Controls
- Front facing buttons for brightness up/auto, brightness down, and power on/off

### Disk
- SATA 3.0Gbps, 3.5” Wide, 7200 rpm

### Optical
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

### Media reader
- 7-in-1 Single Slot SD media reader

### Chipset
- Intel H61 Express Chipset

### Rear ports
- Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

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

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

### PCle WLAN
- 11b/g/h wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

### Bluetooth
- Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

### Ethernet
- One gigabit ethernet port, Realtek® RTL8111E-VB

### Audio
- High Definition (HD) Audio, Realtek ALC269Q

### 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), 104-key, black, Lenovo® logo

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

### Power supply
- 150 watts, auto-sensing, 85% PSU

### Machine
- Model(s) with Non multi-touch, Frame stand:
  - Business black color
  - 20.0" W X 4.0" D X 16.2" H
  - 507mm W X 101mm D X 411mm H (including stand)
  - 14.6 lb (6.6 kg) in maximum configuration
  - Handle in rear, removable feet
  - Support VESA mount (100mm)

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

### Security
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chasssis)
- 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)

### Preloaded operating system
- Genuine Windows® 7 Professional 64

### Preloaded applications
- (only some listed)
  - Rescue and Recovery™
  - Password Manager
  - Business-in-a-Box

### 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
  - Lenovo Message Center Plus
  - RapidBoot HDD Accelerator
  - Lenovo SimpleTap
  - Norton™ Internet Security (30 days of virus definitions)
  - Adobe® Reader®
  - 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)
  - InterVideo WinDVD™ (DVD, DVD±RW)

### Energy Star
- ENERGY STAR® 5.2-compliant

### TCO Certified
- TCO Certified Edge

### Cisco EnergyWise
- Cisco EnergyWise compatible

### GREENGUARD®
- GREENGUARD® certified

### RoHS-compliant
- Supports ThinkVantage Technologies

See footnotes for important warranty information

WE models announced June 5 or June 19, 2012

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(G-MTG11-3) March 2013

- 3-year limited warranty
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<th>Serial port</th>
<th>PS/2 port</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
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<td>11/13/12</td>
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</table>

3-year limited warranty

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

Preloaded applications (only some listed)
- Windows 7 models
  - ThinkVantage® Product Recovery
  - ThinkVantage Communication Utility
  - ThinkVantage Power Manager
  - Lenovo Message Center Plus
  - RapidBoot HDD Accelerator
  - Lenovo SimpleTap
  - Adobe® Reader®
  - Corel® Burn.Now™ (DVD±RW)
  - Corel DVD MovieFactory™ (DVD±RW)
  - Intel® Video WindVD+ (DVD±RW)
- Windows 8 models
  - Lenovo Support
  - Lenovo Settings
  - Lenovo Companion
  - Lenovo Cloud Storage
  - Norton™ Studio
  - AccuWeather
  - Evernote®
  - Cyberlink Power2Go® (DVD±RW)
  - Cyberlink PowerProducer® (DVD±RW)

- All models
  - ThinkVantage System Update
  - ThinkVantage Automatic lock Utility
  - Lenovo Solution Center
  - View Management Utility
  - Norton Internet Security
  - (30 days of virus definitions)
  - Microsoft® Office preloaded; purchase a product key to activate
  - Skype™

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® 5.2-compliant
- TCO Certified Edge
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information

WE models announced October 23 or November 20, 2012

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(M-GMTG11-9) March 2013
## ThinkCentre M72z (3558) - GMP

### 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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<th>Media reader</th>
<th>Chassis intrusion Serial port</th>
<th>Stand type</th>
<th>Keyboard/Global (GMP) (P)</th>
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### Part of the Global Models Plus (GMP) program with limited onsite service 3-year limited warranty

### Positioning
- Processor: Intel Core™ i5-3550S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache), Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache)
- Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- Processor in LGA1155 socket

### Implementation
- Memory: 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)
- Graphics: Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, supports dual independent display;
  - Maximum resolution: 2560x1600 (DisplayPort)@60Hz
- DP dongle: None
- Display: 20.0” (508mm) HD+ (1600x900) TFT color, LED backlight,
  - 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
- Multi-touch: None
- Camera: Camera on top of screen, 2.0-megapixel, fixed focus,
  - integrated digital MIC array with stereo, physical switch on/off
- Controls: Front facing buttons for brightness up/auto, brightness down, and power on/off

### Disk
- SATA 3.0Gb/s, 3.5” Wide, 7200 rpm
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable
- 7-in-1 Single Slot SD media reader

### Chipset
- Intel H61 Express Chipset

### Rear ports
- Four USB 2.0, ethernet (RJ-45), DisplayPort connector,
  - optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- One PCI Express® Mini Card slot
- 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 Intel 2230 Wi-Fi + Bluetooth combo adapter
- One gigabit ethernet port, Realtek® RTL8111E-VB
- High Definition (HD) Audio, Realtek ALC269Q
- Two internal stereo speakers (2watt x 2)
- None
- None
- None
- Trusted Platform Module (TPM 1.2-compliant)

### Keyboard/Mouse
- Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo
- Enhanced Optical USB Mouse, black, Lenovo logo
- 150 watts, autosensing, 85% PSU

### Machine
- Model(s) with Non multi-touch, Frame stand:
  - Business black color
  - 20.0” W X 4.0” D X 16.2” H
  - 507mm W X 101mm D X 411mm H (including stand)
  - 14.8 lb (6.6 kg) in maximum configuration
  - Handle in rear, removable feet
  - Support VESA mount (100mm)

### 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® 5.2-compliant
- TCO Certified Edge
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- Supports ThinkVantage Technologies

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

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WE models announced June 5 or August 14, 2012

(G-MTGi1-1) March 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Chassis intrusion</th>
<th>Stand type</th>
<th>Key-board/ Mouse</th>
<th>Global (G) GMP (P)</th>
<th>Win7</th>
<th>Ann date</th>
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</thead>
<tbody>
<tr>
<td>3558-AG7</td>
<td>Intel Celeron G460 Processor</td>
<td>2GBx1 1600MHz</td>
<td>Intel HD</td>
<td>11b/g/n None</td>
<td>Switch Serial None</td>
<td>Frame USB G</td>
<td>P Emb 32 11/20/12</td>
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<td>3558-AG5</td>
<td>Intel Celeron G465 Processor</td>
<td>2GBx1 1600MHz</td>
<td>Intel HD</td>
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<td>3558-ABG</td>
<td>Intel Celeron G460 Processor</td>
<td>2GBx1 1600MHz</td>
<td>Intel HD</td>
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<td>Frame USB G</td>
<td>P Emb 32 06/11/13</td>
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</tbody>
</table>

**Positioning**

**Processor**

Mainstream All-In-One PC for the enterprise

**Implementation**

Memory: 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook), System automatically clocks down for processors with 1066MHz DDR3 memory controller.

**Graphics**

Intel HD Graphics in processor, uses main memory, HDCP, DirectX 10.1, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @ 60Hz

**Chipset**

Intel H61 Express Chipset

**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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available.

---

**Preloaded operating system**

Genuine Windows® 7 Embedded 32

**Preloaded applications** (only some listed)

- Adobe Reader®
- Adobe Flash® Player
- Citrix® Receiver
- IIS Web Server
- Microsoft® Management Console
- Microsoft Silverlight
- Remote Desktop Protocol
- ThinPrint® print Client
- TightVNC® Viewer
- VMware® View Client
- vWorkspace
- Windows Media Player

---

**Machine**

Model(s) with Non multi-touch, Frame stand:

- Business black color
- 20.0” W X 4.0” D X 16.2” H
- 507mm W X 101mm D X 411mm H (including stand)
- 14.6 lb (6.6 kg) in maximum configuration
- Handle in rear, removable feet
- Support VESA mount (100mm)

**Machine**

Model(s) with Non multi-touch, Frame stand:

- Business black color
- 20.0” W X 4.0” D X 16.2” H
- 507mm W X 101mm D X 411mm H (including stand)
- 14.6 lb (6.6 kg) in maximum configuration
- Handle in rear, removable feet
- Support VESA mount (100mm)
### ThinkCentre M72z (3558) - GMP (Win 8)

**Positioning**
Mainstream All-in-One PC for the enterprise

**Processor**
- **Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),** Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket

**Implementation**
- **ThinkCentre M72z (3558) - GMP (Win 8)**
- **Product Specifications Reference (PSREF)**

**Memory**
16GB max. PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

**Graphics**
- **Intel HD Graphics 2500 in processor, uses main memory,** DirectX 11, external digital monitor support via DisplayPort™, supports dual independent display;
  - **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz
  - **DP dongle**
  - **Display**
    - 20.0" (508mm) HD+ (1600x900) TFT color, LED backlight,
    - 250 nits, 16:9 aspect ratio, 1000:1 dynamic contrast ratio
  - **Multi-touch**
  - **Camera**
    - Camera on top of screen, 2.0-megapixel, fixed focus,
    - integrated digital MIC array with stereo, physical switch on/off
  - **Controls**
    - Front facing buttons for brightness up/auto, brightness down, and power on/off

**Disk**
- **SATA 3.0Gb/s, 3.5" Wide, 7200 rpm**

**Optical**
- **DVB burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable**

**Media reader**
- **7-in-1 Single Slot SD media reader**

**Chipset**
- **Intel H61 Express Chipset**

**Rear ports**
- Four USB 2.0, ethernet (RJ-45), DisplayPort connector,
- optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports**
- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- **PCle Mini Card**
  - One PCI Express® Mini Card slot
  - **PCle WLAN**
    - 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
  - **Bluetooth**
    - Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter
  - **Ethernet**
    - One gigabit ethernet port, Realtek® RTL8111E-DB
  - **Audio**
    - High Definition (HD) Audio, Realtek ALC269Q
  - **Speaker**
    - Two internal stereo speakers (2watt x 2)
  - **Intel AMT**
  - **Modem**
  - **IEEE 1394**
  - **Security chip**
    - Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**
- Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo

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

**Power supply**
- 150 watts, autosensing, 85% PSU

**Machine**
- **Model(s) with Non multi-touch, Frame stand:**
  - Business black color
  - 20.0" W X 4.0" D X 16.2" H
  - 507mm W X 101mm D X 411mm H (including stand)
  - 14.6 lb (6.6 kg) in maximum configuration
  - Handle in rear, removable feet
  - Support VESA mount (100mm)

---

**Limited Warranty**
- **3-years, limited onsite service.**
- **8 am-5 pm, Mon - Fri coverage excluding public and national holidays.**
- Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

---

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

**Preloaded applications (only some listed)**

- **Windows 7 models**
  - ThinkVantage® Product Recovery
  - ThinkVantage Communication Utility
  - ThinkVantage Power Manager
  - Lenovo® Message Center Plus
  - RapidBoot HDD Accelerator
  - Lenovo SimpleTap
  - Adobe® Reader®
  - Corel® Burn.Now™ (DVD±RW)
  - Corel DVD MovieFactory™ (DVD±RW)
  - Intel Video WinDVD® (DVD, DVD±RW)

- **Windows 8 models**
  - Lenovo Support
  - Lenovo Settings
  - Lenovo Companion
  - Lenovo Cloud Storage
  - Norton™ Studio
  - AccuWeather
  - Evernote®
  - Cyberlink Power2Go® (DVD±RW)
  - Cyberlink PowerProducer (DVD±RW)

- **All models**
  - ThinkVantage System Update
  - ThinkVantage Automatic lock Utility
  - Lenovo Solution Center
  - View Management Utility
  - Norton Internet Security (30 days of virus definitions)
  - Microsoft® Office preloaded; purchase a product key to activate
  - Skype™

---

### 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® 5.2-compliant
- TCO Certified Edge
- Cisco EnergyWise compatible
- GREENGUARD® certified RoHS-compliant

- Supports ThinkVantage Technologies

---

See footnotes for important warranty information

WE models announced October 23, 2012

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(G-MTG1I-10) March 2013
ThinkCentre M72z (3512) - Multi-touch (TopSeller)

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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>WLAN</th>
<th>Media reader</th>
<th>Chassis intrusion switch</th>
<th>Serial</th>
<th>PS/2 port</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
<th>Global</th>
<th>Win7 preload</th>
<th>Ann date (mm/dd/yy)</th>
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<tbody>
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<td>3512-A1G</td>
<td>i3-3220 2</td>
<td>4GBx1</td>
<td>1600MHz</td>
<td>500G</td>
<td>7200</td>
<td>HD 2500</td>
<td>11b/g/n</td>
<td>Media Switch</td>
<td>Serial</td>
<td>None</td>
<td>2.4G</td>
<td>None</td>
<td>Frame, Mouse</td>
<td>None</td>
<td>Pro 64</td>
<td>09/04/12</td>
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</tbody>
</table>

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

Positioning
- Mainstream All-In-One PC for the enterprise

Processor
- Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller

Implementation
- Processor in LGA1155 socket

Memory
- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

Graphics
- Intel HD Graphics 2500 in processor, uses main memory. DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz

Display
- None

Multi-touch
- Multi-touch, 2-point support

Camera
- Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off

Controls
- Front facing buttons for brightness up/auto, brightness down, and power on/off

Disk
- SATA 3.0Gb/s, 3.5" Wide, 7200 rpm

Optical
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

Media reader
- 7-in-1 Single Slot SD media reader

Chipset
- Intel H61 Express Chipset

Rear ports
- Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

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

PCle Mini Card
- One PCI Express® Mini Card slot

PCle WLAN
- 11b/g/n wireless, PCle Half Mini Card, Intel Centrino® Wireless-N 2230

Bluetooth
- Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

Etherent
- One gigabit ethernet port, Realtek® RTL8111E-VB

Audio
- High Definition (HD) Audio, Realtek ALC269Q

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

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

Power supply
- 150 watts, autoselection, 85% PSU

Machine
- Model(s) with multi-touch, Frame stand:
  - Business black color
  - 20.0" W X 4.2" D X 16.2" H
  - 507mm W X 107mm D X 411mm H (including stand)
  - 17.5 lb (7.9 kg) in maximum configuration
  - Handle in rear, removable feet
  - Support VESA mount (100mm)

Limited Warranty
- 1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

Preloaded operating system
- Genuine Windows® 7 Professional 64

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

Preloaded applications (only some listed)
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate
- Corel® Burn.Now™ (DVDRW)
- Corel DVD MovieFactory™ (DVDRW)
- InterVideo WinDVD™ (DVDRW)

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

See footnotes for important warranty information

WE model announced September 4, 2012

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(M-TGTG-17) March 2013
ThinkCentre M72z (3528) - Multi-touch (TopSeller)

Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Camera (megapixel)</th>
<th>Sata</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Media reader</th>
<th>Chassis intrusion switch</th>
<th>Serial port</th>
<th>PS/2 port</th>
<th>Stand type</th>
<th>Keyboard/ Mouse</th>
<th>Global</th>
<th>Win7 preload</th>
<th>Ann date (mm/dd/yy)</th>
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</thead>
<tbody>
<tr>
<td>3528-A4G</td>
<td>i5-3470S</td>
<td>4GBx1</td>
<td>1600MHz</td>
<td>2.0M</td>
<td>HD 2500</td>
<td>11b/g/n</td>
<td>Media Switch</td>
<td>Serial</td>
<td>None</td>
<td>Frame</td>
<td>USB</td>
<td>None</td>
<td>None</td>
<td>Pro 64</td>
<td>03/05/13</td>
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</table>

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

### Positioning

Mainstream All-in-One PC for the enterprise

### Processor

**Intel® Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache),** Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket

### Implementation

Memory 16GB max, Implementation Processor in LGA1155 socket

### Graphics

Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort®, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz

### DP dongle

None

### Display

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

### Multi-touch

Multi-touch, 2-point support

### Camera

Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off

### Controls

Front facing buttons for brightness up/auto, brightness down, and power on/off

### Disk

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

### Optical

DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

### Media reader

7-in-1 Single Slot SD media reader

### Chipset

Intel H61 Express Chipset

### Rear ports

Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

### Side ports

Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) One PCI Express® Mini Card slot

### PCIe Mini Card

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

### PCIe WLAN

Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

### Ethernet

One gigabit ethernet port, Realtek® RTL8111E-VB

### Audio

High Definition (HD) Audio, Realtek ALC225Q

### Speaker

Two internal stereo speakers (2watt x 2)

### Intel AMT

None

### Modern

None

### IEEE 1394

None

### Security chip

Trusted Platform Module (TPM 1.2-compliant)

### Keyboard

Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo

### Mouse

Enhanced Optical USB Mouse, black, Lenovo logo

### Power supply

150 watts, autosensing, 85% PSU

### Machine

Model(s) with multi-touch, Frame stand:
- Business black color
- 20.0" W X 4.2" D X 16.2" H
- 507mm W X 107mm D X 411mm H (including stand)
- 17.5 lb (7.9 kg) in maximum configuration
- Handle in rear, removable feet
- Support VESA mount (100mm)

### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

### Preloaded operating system

Genuine Windows® 7 Professional 64

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

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

### Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HD® Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- 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)
- InterVideo WinDVD® (DVD, DVD±RW)
- InterVideo WinDVD® (DVD, DVD±RW)

### 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® 5.2-compliant

TCO Certified Edge

Cisco EnergyWise compatible

GREENGUARD® certified

RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information

WE model announced March 5, 2013

©Lenovo (G-MTGI-13) March 2013
## ThinkCentre M72z (3535) - Multi-touch

<table>
<thead>
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<th>Type-model</th>
<th>Processor</th>
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<th>Camera (megapixel)</th>
<th>Disk</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>WLAN</th>
<th>Media reader</th>
<th>Chassis intrusion switch</th>
<th>Serial port</th>
<th>PS/2 port</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
<th>Global</th>
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<td>Serial</td>
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<td>Frame</td>
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<td>Pro 64</td>
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</table>

- **3-year limited warranty**

### Positioning

**Processor:** Mainstream All-In-One PC for the enterprise

**Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8GHz, 3MB cache),** integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology

**Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache),** integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

**Processor in LGA1155 socket**

### Implementation

**Memory:** 16GB max. **PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)

**Graphics:** Intel HD Graphics** or Intel HD Graphics 2000 in processor, uses main memory,** DirectX® 10.1, external digital monitor support via DisplayPort™, supports dual independent display; **Maximum resolution:** 2560x1600 (DisplayPort)@60Hz

**Display DP dongle:** None

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

**Multi-touch Camera:** Multi-touch, 2-point support

**Camera:** Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off

**Controls:** Front facing buttons for brightness up/auto, brightness down, and power on/off

**Disk:** SATA 3.0Gb/s, 3.5" Wide, 7200 rpm

**Optical:** DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

**Media reader:** 7-in-1 Single Slot SD media reader

**Chipset:** Intel H61 Express Chipset

**Rear ports:** Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports:** Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

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

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

**Bluetooth:** Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

**Ethernet:** One gigabit ethernet port, Realtek® RTL8111E-VB

**Audio:** High Definition (HD) Audio, Realtek ALC269Q

**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), 104-key, black, Lenovo® logo

**Mouse:** Some: UltraSlim Plus Wireless Keyboard (2.4GHz via USB receiver), black

**Some:** Enhanced Optical USB Mouse, black, Lenovo logo

**Power supply:** 150 watts, autosensing, 85% PSU

**Machine:** Model(s) with multi-touch, Frame stand:

- Business black color
- **20" W X 4.2" D X 16.2" H**
- **507mm W X 107mm D X 411mm H** (including stand)
- **17.5 lb (7.9 kg)** in maximum configuration
- Handle in rear, removable feet
- Support VESA mount (100mm)

### Preloaded operating system

Genuine Windows® 7 Professional 64

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

- Rescue and Recovery®
- Password Manager
- Business-in-a-Box

### Preloaded applications (only some listed)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton® Internet Security
- Windows Live™ Essentials
- Microsoft® Office preloaded;
  - purchase a product key to activate
- Corel® Burn.Now®i (DVD:RW)
- Corel DVD MovieFactory® (DVD:RW)
- InterVideo WinDVD® (DVD, DVD:RW)
- Lenovo Support VESA mount (100mm)
- Drivers and BIOS updates
- ThinkVantage Productivity Center
- Lenovo Care Pack
- Lenovo Support Center
- Lenovo Care
- Lenovo Client Security Services
- Lenovo ThinkVantage Toolbox
- Lenovo Support Assistant
- Corel® WordPerfect Office® X7
- Corel® VideoStudio® Ultimate X7
- Corel® PaintShop® Pro X8
- Corel® Home Office
- Adobe Reader®
- Internet Security
- Microsoft® Office preloaded;
  - purchase a product key to activate
- Adobe® Reader®
- Skype® for Windows
- Skype® for Tablets
- Windows Media Player
- Windows Live™ Essentials
- Microsoft® Office preloaded;
  - purchase a product key to activate
- Corel® Burn.Now®i (DVD:RW)
- Corel DVD MovieFactory® (DVD:RW)
- InterVideo WinDVD® (DVD, DVD:RW)

### 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available
ThinkCentre M72z (3535) - Multi-touch - II

Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory*</th>
<th>Camera (megapixel)</th>
<th>Disk SATA GB rpm</th>
<th>Graphics</th>
<th>PCle Mini Card WLAN</th>
<th>Media reader</th>
<th>Chassis intrusion switch</th>
<th>Serial port</th>
<th>PS/2 port</th>
<th>Stand type</th>
<th>Keyboard/ Mouse</th>
<th>Global</th>
<th>Win7 preload</th>
<th>Ann date (mm/dd/yy)</th>
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</thead>
<tbody>
<tr>
<td>3535-D1G</td>
<td>i3-3220</td>
<td>4GBx1</td>
<td>1600MHz</td>
<td>2.0M</td>
<td>500G</td>
<td>7200</td>
<td>Media Switch</td>
<td>Serial</td>
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<td>2.4G</td>
<td>Frame</td>
<td>2.0M</td>
<td>None</td>
<td>Pro 64</td>
<td>09/04/12</td>
</tr>
</tbody>
</table>

- 3-year limited warranty

Positioning: Mainstream All-In-One PC for the enterprise

Processor: Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller

Implementation: Processor in LGA1155 socket

Memory: 16GB max, in processor, uses main memory, DirectX®, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort);@ 60Hz

Graphics: Intel HD Graphics 2500 in processor, uses main memory, DirectXTM 11, external digital monitor support via DisplayPort™, supports dual independent display

DP dongle: None

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

Multi-touch: Multi-touch, 2-point support

Camera: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off

Controls: Front facing buttons for brightness up/auto, brightness down, and power on/off

Disk: SATA 3.0Gb/s, 3.5" Wide, 7200 rpm

Optical: DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

Media reader: 7-in-1 Single Slot SD media reader

Chipset: Intel H61 Express Chipset

Rear ports: Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

Side ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo)

PCle Mini Card: One PCI Express® Mini Card slot

PCle WLAN: 11b/g/n wireless, PCie Half Mini Card, Intel Centrino® Wireless-N 2230

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

Ethernet: One gigabit ethernet port, Realtek® RTL8111E-VB

Audio: High Definition (HD) Audio, Realtek ALC269Q

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

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

Power supply: 150 watts, auto-sensing, 85% PSU

Machine: Model(s) with multi-touch, Frame stand:

- Business black color
- 20.0" W X 4.2" D X 16.2" H
- 507mm W X 107mm D X 411mm H (including stand)
- 17.5 lb (7.9 kg) in maximum configuration
- Handle in rear, removable feet
- Support VESA mount (100mm)

Limited Warranty: 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

Preloaded operating system:
- Genuine Windows® 7 Professional 64

Ready to install applications (only some listed):
- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

Preloaded applications (only some listed):
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HD0 Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- 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)
- InterVideo WinDVD® (DVD, DVD:RW)

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® 5.2-compliant
TCO Certified Edge
Cisco EnergyWise certified
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies
### ThinkCentre M72z (3538) - Multi-touch (GMP)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Camera</th>
<th>Disk</th>
<th>Graphics</th>
<th>PClé Mini Card</th>
<th>Chassis intrusion</th>
<th>Serial port</th>
<th>PS/2 port</th>
<th>Stand type</th>
<th>Key-board/ Mouse</th>
<th>Global (G)</th>
<th>Win7 preload</th>
<th>Ann date (mm/dd/yy)</th>
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</thead>
<tbody>
<tr>
<td>3538-A2G</td>
<td>i5-3550S</td>
<td>4GBx1</td>
<td>1600MHz</td>
<td>2.0M</td>
<td>250G</td>
<td>HD 2500</td>
<td>11b/g/n</td>
<td>Media Switch</td>
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<td>None</td>
<td>Frame USB</td>
<td>G P</td>
<td>Pro 64</td>
<td>06/05/12</td>
</tr>
<tr>
<td>3538-A3G</td>
<td>i5-3570S</td>
<td>4GBx1</td>
<td>1600MHz</td>
<td>2.0M</td>
<td>500G</td>
<td>HD 2500</td>
<td>11b/g/n</td>
<td>Media Switch</td>
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<td>None</td>
<td>Frame USB</td>
<td>G P</td>
<td>Pro 64</td>
<td>08/14/12</td>
</tr>
</tbody>
</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™ i5-3550S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache),** Turbo Boost 2.0 (3.7GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Intel Core i5-3570S Processor (4 cores / 4 threads, 3.1GHz, 6MB cache),** Turbo Boost 2.0 (3.8GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology

#### Implementation

- Processor in LGA1155 socket

#### Memory

- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

#### Graphics

- Intel HD Graphics 2500
- Intel HD Graphics 2500 in processor, uses main memory, DirectX 11, external digital monitor support via DisplayPort™, supports dual independent display;
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz

#### Display

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

#### Multi-touch

- Multi-touch, 2-point support

#### Camera

- Camera on top of screen, 2.0-megapixel, fixed focus,
- integrated digital MIC array with stereo, physical switch on/off

#### Controls

- Front facing buttons for brightness up/auto, brightness down, and power on/off

#### Disk

- SATA 3.0Gb/s, 3.5" Wide, 7200 rpm

#### Optical

- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

#### Media reader

- 7-in-1 Single Slot SD media reader

#### Chipset

- Intel H61 Express Chipset

#### Rear ports

- Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

#### Side ports

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

#### PClé Mini Card

- One PClé Express Mini Card slot

#### PClé WLAN

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

#### Bluetooth

- Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

#### Ethernet

- One gigabit ethernet port, Realtek® RTL8111E-VB

#### Audio

- High Definition (HD) Audio, Realtek ALC269Q

#### 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/Mouse

- Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo
- Enhanced Optical USB Mouse, black, Lenovo logo

#### Power supply

- 150 watts, autosensing, 85% PSU

#### Machine

- Model(s) with multi-touch, Frame stand:
  - Business black color
  - 20.0" W X 4.2" D X 16.2" H
  - 507mm W X 107mm D X 411mm H (including stand)
  - 17.5 lb (7.9 kg) in maximum configuration
  - Handle in rear, removable feet
  - Support VESA mount (100mm)

#### Limited Warranty

- **3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available**

### Preloaded operating system

- Genuine Windows® 7 Professional 64

#### Preloaded applications

- (only some listed)
  - Rescue and Recovery™
  - Password Manager
  - Business-in-a-Box

#### Preloaded applications

- (only some listed)
  - ThinkVantage® Product Recovery
  - ThinkVantage System Update
  - ThinkVantage Communication Utility
  - ThinkVantage Automatic Lock Utility
  - ThinkVantage Power Manager
  - View Management Utility
  - Microsoft Touch Pack
  - Lenovo Solution Center
  - Lenovo Message Center Plus
  - RapidBoot HD® Accelerator
  - Lenovo SimpleTap
  - Norton™ Internet Security
  - Microsoft® Office preloaded; purchase a product key to activate
  - Adobe® Reader®
  - Skype™ for Windows
  - Windows Live™ Essentials
  - Cisco EnergyWise compatible
  - EPEAT® Gold rating
  - ENERGY STAR® 5.2-compliant
  - RoHS-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)

See footnotes for important warranty information

**WE models announced June 5 or August 14, 2012**

©Lenovo (G-MTGi1-2) March 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Camera (megapixel)</th>
<th>Disk</th>
<th>SATA</th>
<th>Optical</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>WLAN</th>
<th>Media reader</th>
<th>Chassis intrusion switch</th>
<th>Serial</th>
<th>PS/2</th>
<th>Stand type</th>
<th>Keyboard/Global GMP</th>
<th>Win7 preload (mm/dd/yy)</th>
<th>Ann date</th>
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<tbody>
<tr>
<td>3538-A5G</td>
<td>G460</td>
<td>2GBx1</td>
<td>1600MHz 2.0M</td>
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<td>Switch</td>
<td>Serial</td>
<td>None</td>
<td>Frame</td>
<td>USB</td>
<td>G P</td>
<td>Emb 32</td>
<td>11/20/12</td>
<td>07/23/13</td>
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<tr>
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<td>None</td>
<td>Switch</td>
<td>Serial</td>
<td>None</td>
<td>Frame</td>
<td>USB</td>
<td>G P</td>
<td>Emb 32</td>
<td>06/08/13</td>
<td>07/23/13</td>
<td></td>
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<tr>
<td>3538-A7G</td>
<td>G470</td>
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<td>1600MHz 2.0M</td>
<td>8G SSD</td>
<td>None</td>
<td>Intel HD 11b/g/n</td>
<td>None</td>
<td>Switch</td>
<td>Serial</td>
<td>None</td>
<td>Frame</td>
<td>USB</td>
<td>G P</td>
<td>Emb 32</td>
<td>07/23/13</td>
<td>07/23/13</td>
<td></td>
</tr>
</tbody>
</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 Celeron G460 Processor (1 core / 2 threads, 1.8GHz, 1.5MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller**

Implementation
- **Memory**: 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook), System automatically clocks down for processors with 1066MHz DDR3 memory controller

Graphics
- **Intel HD Graphics** in processor, uses main memory, HDCP, DirectX 10.1, external digital monitor support via DisplayPort, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @ 60Hz

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

Multi-touch
- **Camera**: Multi-touch, 2-point support
- **Camera**: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, physical switch on/off

Controls
- **Disk**: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5” Wide
- **Optical**: None
- **Media reader**: None

Chipset
- **Intel H61 Express Chipset**

Rear ports
- Four USB 2.0, ethernet (RJ-45), DisplayPort connector, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

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

PCIe Mini Card
- One PCI Express Mini Card slot

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

Bluetooth
- **Audio**: Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

Ethernet
- **Audio**: One gigabit ethernet port, Realtek RTL8111E-VB

Audio
- **Speaker**: High Definition (HD) Audio, Realtek ALC269Q

In-AMT
- **multitouch**: Two internal stereo speakers (2watt x 2)

Intel AMT
- **Engineer**: None

Modem
- **Modern**: None

IEEE 1394
- **IEEE 1394**: None

Security chip
- Trusted Platform Module (TPM 1.2-compliant)

Keyboard/Global GMP
- **Keyboard Mouse**: Enhanced Optical USB Mouse, black, Lenovo logo

Power supply
- **Machine**: 150 watts, autosensing, 85% PSU

Binary search tree
- **Machine**: Model(s) with multi-touch, Frame stand:
  - Business black color
  - 20.0” W X 4.2” D X 16.2” H
  - 507mm W X 101mm D X 411mm H (including stand)
  - 17.5 lb (7.9 kg) in maximum configuration
  - Handle in rear, removable feet
  - Support VESA mount (100mm)

Limited Warranty
- **3-years, limited onsite service**, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

Preloaded operating system
- Genuine Windows 7
- Embedded 32

Preloaded applications (only some listed)
- • Adobe Reader
- • Adobe Flash Player
- • Citrix Receiver
- • IIS Web Server
- • Microsoft® Management Console
- • Microsoft® Silverlight
- • Remote Desktop Protocol
- • ThinPrint , print Client
- • TightVNC Viewer
- • VMware® View Client
- • vWorkspace
- • Windows Media Player

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 disable
- Chassis intrusion switch on selected model(s)

EPEAT® Gold rating
- ENERGY STAR® 5.2-compliant
- TCO Certified Edge
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage Technologies
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>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Disk</th>
<th>Graphics</th>
<th>PCle Mini Card</th>
<th>WLAN</th>
<th>Media reader</th>
<th>Chassis intrusion &amp; PS/2 switch</th>
<th>Serial port</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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<tbody>
<tr>
<td>10BC001A++</td>
<td>G3240</td>
<td>4GBx1</td>
<td>None</td>
<td>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: 1600 x 900 (panel) @ 60Hz; 1920x1200 (VGA) @ 60Hz (Reduced Blanking)</td>
<td>None</td>
<td>N7260</td>
<td>Media Switch None</td>
<td>Monitor USB None</td>
<td>Win7 Pro64 DG</td>
<td>None</td>
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<td>Win7 Pro64 DG</td>
<td>09/23/14</td>
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<tr>
<td>10BC0017++</td>
<td>G3220</td>
<td>4GBx1</td>
<td>None</td>
<td>Intel HD Graphics, 1333MHz DDR3 memory controller</td>
<td>None</td>
<td>N7260</td>
<td>Media Switch None</td>
<td>Monitor USB None</td>
<td>Win7 Pro64 DG</td>
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<td>N7260</td>
<td>Media Switch None</td>
<td>Monitor USB None</td>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>Win7 Pro64 DG</td>
<td>09/23/14</td>
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</tbody>
</table>

Country Code+++: AT (Austria), FR (France), GB (Germany/English OS), GE (Germany/German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

**Preloaded operating system**
- Some: Windows 7 Professional 64
- Some: Windows 7 Professional 64

**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
- Adobe® Reader™
- Skype™
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVDs/RW)
- Cyberlink PowerProducer (DVDs/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 disablance
- 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
ThinkCentre M73z (10BC) - TopSeller

<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>Chassis intrusion switch</th>
<th>Serial PS/2 port</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
<th>Global</th>
<th>Preload</th>
<th>Anno date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10BC0012++</td>
<td>i5-4430S</td>
<td>8GBx1</td>
<td>720p</td>
<td>HD 4600</td>
<td>Media Switch</td>
<td>None</td>
<td>None</td>
<td>Frame</td>
<td>None</td>
<td>Win7</td>
<td>P64</td>
<td>DG Win8.1 02/11/14</td>
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<tr>
<td>10BC0016++</td>
<td>i5-4460S</td>
<td>8GBx1</td>
<td>720p</td>
<td>HD 4600</td>
<td>Media Switch</td>
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<td>Frame</td>
<td>None</td>
<td>Win7</td>
<td>P64</td>
<td>DG Win8.1 07/15/14</td>
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</table>

Country Code*:++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

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 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 model(s)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Eternote
- 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

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

Supports ThinkVantage Technologies

Limited Warranty 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

©Lenovo (G-MDST1-4) July 2014
## ThinkCentre M73z (10BB) - GMP

### Product Specifications Reference (PSREF)

### Table: Product Specifications

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Camera (megapixel)</th>
<th>Disk</th>
<th>SATA</th>
<th>Graphics</th>
<th>PCle Mini Card</th>
<th>Media reader</th>
<th>Chassis intrusion switch</th>
<th>Serial &amp; PS/2 port</th>
<th>Stand type</th>
<th>Key-board/</th>
<th>Mouse</th>
<th>Global (G)</th>
<th>GMP (P)</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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<tbody>
<tr>
<td>10BB000E++</td>
<td>i5-4570S</td>
<td>4GBx1 1600MHz</td>
<td>720p</td>
<td>500G</td>
<td>HD</td>
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<td>Media Switch</td>
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<td>Monitor</td>
<td>None</td>
<td>Monitor</td>
<td>USB</td>
<td>G</td>
<td>P</td>
<td>Win7 Pro46 DG</td>
<td>09/24/13</td>
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</tr>
<tr>
<td>10BB001D++</td>
<td>i5-4570S</td>
<td>4GBx1 1600MHz</td>
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<td>500G</td>
<td>HD</td>
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<td>Monitor</td>
<td>None</td>
<td>Monitor</td>
<td>USB</td>
<td>G</td>
<td>P</td>
<td>Win7 Pro46 DG</td>
<td>09/24/13</td>
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<tr>
<td>10BB002V++</td>
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<td>500G</td>
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<td>None</td>
<td>Monitor</td>
<td>USB</td>
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<td>P</td>
<td>Win7 Pro46 DG</td>
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<tr>
<td>10BB004Q++</td>
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<td>HD</td>
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<td>Monitor</td>
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<td>Monitor</td>
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<td>P</td>
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<td>06/24/14</td>
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</tr>
<tr>
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<td>500G</td>
<td>HD</td>
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<td>P</td>
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<td>07/15/14</td>
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<td>10BB005F++</td>
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<td>Media Switch</td>
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<td>Monitor</td>
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<td>Monitor</td>
<td>USB</td>
<td>G</td>
<td>P</td>
<td>Win7 P64 DG Win 8.1</td>
<td>07/15/14</td>
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</tbody>
</table>

### Country Code<sup>*<sup>++</sup>: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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**Note:**

- **Positioning:** Mainstream All-In-One PC for the enterprise
- **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<sup>®</sup>
- Password Manager

**Preloaded applications (only some listed):**
- ThinkVantage<sup>®</sup> 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<sup>®</sup> Internet Security
(30 days of virus definitions)
- Adobe<sup>®</sup> Reader<sup>®</sup>
- Skype<sup>™</sup>
- Microsoft Office preloaded; purchase a product key to activate
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp<sup>®</sup>
- Nitro Pro

**Security:**
- Security chip (see information on left)
- Security slot (in rear for attachment of optional Kensington<sup>®</sup> MicroSaver<sup>®</sup> 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<sup>®</sup> Gold rating
  - ENERGY STAR<sup>®</sup> 6.0-compliant
  - Cisco EnergyWise compatible
  - GREENGUARD<sup>®</sup> certified
  - ToxS-compliant
  - EU 2013 Certified

**Limited Warranty:**
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

**See footnotes for important warranty information**

©Lenovo (G-MDST1-2) July 2014
## ThinkCentre M73z (10BB) - GMP (Win8/8.1)

### Product Specifications Reference (PSRef)

<table>
<thead>
<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 switch</th>
<th>Serial PS/2 port</th>
<th>Stand type</th>
<th>Keyboard/ Mouse</th>
<th>Global (G)</th>
<th>GMP (P)</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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</thead>
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<td>i5-4570S</td>
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<td>1600MHz</td>
<td>Media Switch</td>
<td>None</td>
<td>Frame</td>
<td>USB</td>
<td>G P</td>
<td>Win8 Pro64</td>
<td>09/24/13</td>
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<tr>
<td>10BB003V++</td>
<td>i5-4570S</td>
<td>4GBx1</td>
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<td>USB</td>
<td>G P</td>
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<td>G P</td>
<td>Win8 Pro64</td>
<td>06/24/14</td>
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Country Code*++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

### Preloaded operating system

- Some: Windows® 8 Pro 64-bit
- Some: Windows 8.1 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
  - (30 days of virus definitions)
  - Skype™
- Microsoft Office preloaded;
  - purchase a product key to activate
- Cyberlink Power2Go (DVD±RW, DVD)
- Cyberlink PowerProducer (DVD±RW)
- Evernote®
- Intel AppUp
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki (for Windows 8.1 only)
- HighLight (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

See footnotes for important warranty information

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### Mechanical

- Business black color
- Carry handle in rear
- Support VESA mount (100mm)

With Frame stand:

| Dimensions | Weight | Maximum configuration
|------------|--------|------------------------|
| 19.9” X 3.56” X 15.9” | 64.6 lb (2.94 kg) | Adjustable stand (between 10° and 35°)

With Monitor stand:

| Dimensions | Weight | Maximum configuration
|------------|--------|------------------------|
| 21.5” X 3.91” X 15.7” | 23.5 lb (10.7kg) | Tilt: 10° to 25°; Lift: 100mm; Swivel: +/-45°

### Limited Warranty

3 years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available
ThinkCentre M78 Small and Tower

Lenovo ThinkCentre M78 Small and Tower

Lenovo ThinkCentre M78 Tower with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 Small with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M78 Tower

Lenovo ThinkCentre M78 Tower
ThinkCentre M78 Small (10BS) - ES 5.2 (GMP)

Product Specifications Reference (PSREF)

Note: models listed above might not be available in all WE countries

Country Code “++”:
AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

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 (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)

EPEAT™ Gold rating
ENERGY STAR 5.2-compliant
ULE Gold
RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information
WE model(s) announced October 1, 2013

©Lenovo

(G-ADR1S-1) October 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk GB</th>
<th>SATA optical</th>
<th>PCle WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Chassis intrusion switch</th>
<th>PS/2 port</th>
<th>DP to DP Cable</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkCentre M78 Tower (10BN) - ES 5.2</td>
<td>4x5</td>
<td>AMD APU A6-5400B (dual-core, 3.6GHz, 1MB L2 cache), Turbo Core (up to 3.8GHz), AMD Radeon HD Graphics, DDR3 memory controller (up to 1866MHz)</td>
<td>4GBx1</td>
<td>500G 7200</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>HD 7540D</td>
<td>Switch</td>
<td>None</td>
<td>None</td>
<td>Win7 Pro64</td>
<td>10/01/13</td>
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Country Code:+*: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom) Note: models listed above might not be available in all WE countries

### 3-year limited warranty

**Positioning**
- Mainstream enterprise stability and manageability

**Processor**
- AMD APU A6-5400B
- AMD Radeon HD Graphics, integrated in processor, uses main memory, DirectX® 11, one VGA, one DisplayPort™, supports dual independent display;
- Maximum resolution: 1920x1200 (VGA)@60Hz; 2560x2048 (DisplayPort)@60Hz

**Implementation**
- Processor in Socket FM2

**Memory**
- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**
- AMD Radeon Graphics, HD 7540D Graphics, DDR3 memory controller (up to 1866MHz)

**Ethernet**
- One gigabit ethernet port, Realtek RTL8111E, Wake on LAN

**IEEE 1394**
- None

**Limited Warranty**
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

**Preloaded operating system**
- Windows® 7 Professional 64

**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:
    - Cyberlink Power2Go (DVD±RW)
    - Cyberlink PowerProducer (DVD±RW)
  - Nitro Pro
  - Norton™ AntiVirus 2014

**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"
  - 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 disablement
- Chassis intrusion switch on selected model(s)

**EPEAT™ Gold rating**
- ENERGY STAR 5.2-compliant
- ULE Gold
- RoHS-compliant

**Supports ThinkVantage Technologies**

See footnotes for important warranty information

WE model(s) announced October 1, 2013

©Lenovo

(G-ADR1T-1) October 2013
ThinkCentre M78 Tower (10BN) - ES 5.2 (GMP)

**Product Specifications Reference (PSREF)**

**Note:** models listed above might not be available in all WE countries

### 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
- 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 disablement
- Chassis intrusion switch on selected model(s)
- EPEAT® Gold rating
- ENERGY STAR 5.2-compliant
- ULE Gold
- RoHS-compliant

### Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

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### Type-model Slot x bay Processor Memory¹ SATA disk optical PCIe WLAN Media reader Graphics Chassis intrusion switch PS/2 port DP to DP Global (G) GMP (P) Preload Ann date (mm/dd/yyyy)

10BN0005++ 4x5 A4-5300B 2GBx1 500G 7200 DVD None None HD 7480D Switch None None G P Win7 Pro64 10/01/13

10BN0007++ 4x5 A6-5400B 4GBx1 500G 7200 DVD±RW None None HD 7540D Switch None None G P Win7 Pro64 (DG) 10/01/13

10BN000B++ 4x5 A8-5500B 4GBx1 1TB 7200 DVD±RW N105 None None HD 8470 None None G P Win7 Pro64 10/01/13

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ThinkCentre M79 SFF Platform Specifications

### Processor

<table>
<thead>
<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency</th>
<th>L2 Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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<tbody>
<tr>
<td>A4-6300B</td>
<td>2</td>
<td>3.9 / 3.7</td>
<td>1MB</td>
<td>DDR3-1600</td>
<td>HD 8370D</td>
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<td>A6-6400B</td>
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<td>4.1 / 3.9</td>
<td>1MB</td>
<td>DDR3-1866</td>
<td>HD 8470D</td>
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<tr>
<td>A8-6500B</td>
<td>4</td>
<td>4.1 / 3.5</td>
<td>4MB</td>
<td>DDR3-1866</td>
<td>HD 8570D</td>
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<tr>
<td>A8 PRO-7400B</td>
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<td>3.9 / 3.5</td>
<td>1MB</td>
<td>DDR3-1866</td>
<td>RAdeon R5 Series</td>
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<tr>
<td>A8 PRO-7600B</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
- 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

### 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;

<table>
<thead>
<tr>
<th>Maximum resolution</th>
<th>VGA</th>
<th>DisplayPort</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1200 (VGA)</td>
<td>60Hz</td>
<td>2560x2048 (DisplayPort)</td>
</tr>
</tbody>
</table>

### Optical

- Some: IEEE 1394
- Rear audio ports:
  - Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
- Front ports:
  - Two PS/2 ports
  - Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- 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)
  - 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 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

- High Definition (HD) Audio, Realtek ALC662 / internal speaker (1watt)
- 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: 11ac/b/g/n wireless, PCIe Half Mini Card, Broadcom BCM4352, dual band (2.4/5GHz), Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

### Bluetooth™

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

### LAN/WLAN

- Some: 1.1Gbps wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter
- Some: 1.1Gbps wireless, PCIe Half Mini Card, Realtek RTL8192EE, 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

### Power

- Power management:
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Optional Chassis intrusion switch

### Security

- Enhanced Manageability with DASH 1.1
- Trusted Platform Module, TCG 1.2-compliant
- Security features:
  - Padlock loop (in rear for opt padlock)
  - Security slot (in rear for optional Kensington™ MicroSaver™ cable)
  - Cable lock to physically lock keyboard and mouse (optional)
  - Power-on password

### Keyboards

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

### Mice

- Some: Lenovo USB Fingerprint Keyboard (USB connector)
- Some: Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

### Mechanical

- Business black color; metal case, 11L
- 13.2" X 15.0" D X 3.9" H
- 335mm W X 328mm D X 110mm H

### 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; E-Rp Lot 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)

### Accessories

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

---

See footnotes for more detailed information © Lenovo (ALSK1-SFF) July 2014
### ThinkCentre M79 Tower Platform Specifications

#### Processor

<table>
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<tr>
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<th>Cores</th>
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#### Memory

- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

#### 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
- 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

- AMD A78 FCH
- 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), optical 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 panel
- Audio support: High Definition (HD) Audio, Realtek ALC662 / 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 RTL8822EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2

#### Bluetooth

- Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®
- None

#### Manageability

- Enhanced Manageability with DASH 1.1
- Trusted Platform Module, TCG 1.2-compliant

#### Security

- Security features:
  - Padlock (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
  - Boot without keyboard and mouse
  - Individual USB port disablement
  - Optional Chassis intrusion switch

#### 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
- 15.25" x 15.25" x 10.0" (387mm x 387mm x 254mm), 19.6 lb (8.9 kg)
- 25" W, 27" D, 83mm H
- 25" W, 27" D, 100mm H
- 25" W, 27" D, 150mm H

#### Power supply

- 180 watts, autoselecting, 100-240V (50-60Hz)
- 280 watts, autoselecting, 200-240V (50-60Hz)
- 280 watts, autoselecting, 85% PSU, 100-240V (50-60Hz)

#### Limited warranty

- 3-years, limited onsite service / service upgrades available
- 3-years, limited onsite service, IWS (International Warranty Service) / service upgrades available

#### Keyboard

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

#### Mouse

- 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
- 15.25" x 15.25" x 10.0" (387mm x 387mm x 254mm), 19.6 lb (8.9 kg)
- 25" W, 27" D, 83mm H
- 25" W, 27" D, 100mm H
- 25" W, 27" D, 150mm H

#### 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
- 15.25" x 15.25" x 10.0" (387mm x 387mm x 254mm), 19.6 lb (8.9 kg)
- 25" W, 27" D, 83mm H
- 25" W, 27" D, 100mm H
- 25" W, 27" D, 150mm H

#### Power supply

- 180 watts, autoselecting, 100-240V (50-60Hz)
- 280 watts, autoselecting, 200-240V (50-60Hz)
- 280 watts, autoselecting, 85% PSU, 100-240V (50-60Hz)

#### Limited warranty

- 3-years, limited onsite service / service upgrades available
- 3-years, limited onsite service, IWS (International Warranty Service) / service upgrades available

#### Web install applications (only some listed)

- Password Manager
- Preloaded applications (only some listed)
- ThinkVantage System Update
- Desktop Power Manager
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- Microsoft Office preloaded;
- 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
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- 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; EiP Lot 3

#### Accessories

- For compatible accessories, please go to TC-AQP sheet
### ThinkCentre M79 SFF (10CU) - TopSeller

<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>
<th>Base Warranty (year) Global</th>
<th>Ann Date (mm/yyy)</th>
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</thead>
<tbody>
<tr>
<td>10CU0000++ A4 6300B</td>
<td>A4-6300B</td>
<td>4Gx1</td>
<td>HD 8570D</td>
<td>500GB</td>
<td>7200</td>
<td>DVD+RW</td>
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<td>None</td>
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<td>None</td>
<td>None</td>
<td>3-onsite</td>
<td>No 07/14</td>
</tr>
</tbody>
</table>

#### Country Code ‘++’:
- AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet

#### Processor

<table>
<thead>
<tr>
<th>APU</th>
<th>Cores</th>
<th>Frequency (Max/Base)</th>
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<tr>
<td>A4-6300B</td>
<td>2</td>
<td>3.9 / 3.7</td>
<td>1MB</td>
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<td>HD 8370D</td>
</tr>
<tr>
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<td>4.1 / 3.5</td>
<td>4MB</td>
<td>DDR3-1866</td>
<td>HD 8570D</td>
</tr>
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<td>1MB</td>
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<td>Radeon R5 Series</td>
</tr>
<tr>
<td>A8-PRO-7600B</td>
<td>4</td>
<td>3.8 / 3.4</td>
<td>3 / 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 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

- 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

#### Graphics

- Some: 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

#### 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

#### 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 speaker (1Watt)

#### 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
- One gigabit ethernet port, Realtek 8111EPV, Wake on LAN®

#### 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

See footnotes for more detailed information © Lenovo (G-ALSK1S-1) July 2014
### ThinkCentre M79 SFF (10CT)

<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>
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<th>2nd Serial / Parallel PS/2 Ports</th>
<th>2nd DP Port</th>
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<td>10CT0006++</td>
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<td>10CT0007++</td>
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<td>Radeon R5 500G</td>
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#### Memory

- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

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

#### Optical

- Onboard 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 8570D**, 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 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 + 1 optional), two PS/2 ports

#### Rear audio ports

- IEEE 1394
- 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 speaker (1Watt)

#### WLAN

- 11b/g/n wireless, Realtek RTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- 11a/b/g/n wireless, Realtek RTL8182EE, Wi-Fi + BT 4.0 combo, 2x2
- 11ac/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

- None

### Security features

- 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)
- Optional Chassis intrusion switch

### Mechanical

- Business black color; metal case, 11L
- 13.2" W X 15.0" D X 3.9" H
- 335mm W X 382mm D X 101mm H
- 4.6 lb (6.6 kg) in maximum configuration
- Bay: 5.25" x 1, 3.5" x 1, SSD bay x 1, MCR bay x 1
- *SSD bay only available on models with 2nd SSD installed
- Slot (Low Profile): one PCle 3.0 x16 (40w max), two PCle 2.0 x1, one PC 2.1

### Floor Stand

- Optional system floor stand for vertical orientation

### Power supply

- 180W: 180 watts, autosensing, 100-240V (50-60Hz)
- 240W: 240 watts, autosensing, 100-240V (50-60Hz)
- 240W: 240 watts, autosensing, 85% PSU, 100-240V (50-60Hz)

### Limited warranty

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

### Preload

- Some: Windows® 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 7 Professional 32
- Some: Windows 7 Professional 64
- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit

### 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

---

**Country Code**”++” : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

For detailed platform specifications, please see ThinkCentre M79 SFF Platform Specifications sheet

See footnotes for more detailed information
Type-model | Processor | Memory | Graphics | Storage | Optical | WLAN
---|---|---|---|---|---|---
10CR0000++ | A4 6300B | 4Gx1 | HD 8370D | 500G | 7200 | DVD/HD
10CR0001++ | A4 6300B | 4Gx1 | HD 8370D | 500G | 7200 | DVD/HD
10CR0002++ | A8 6500B | 8Gx1 | HD 8570D | 500G | 7200 | DVD/HD
10CR0003++ | A6 6400B | 4Gx1 | HD 8470D | 500G | 7200 | DVD/HD

**Processor**

- **AMD A4, A6, A8, or A10 series APUs**
  - A4-6300B: 2 cores, 3.9/3.7 GHz, 1MB L2 cache, DDR3-1600
  - A6-6400B: 2 cores, 4.1/3.9 GHz, 4MB L2 cache, DDR3-1866
  - A8-6500B: 4 cores, 4.1/3.5 GHz, 4MB L2 cache, DDR3-1866
  - A6 PRO-7400B: 2 cores, 3.9/3.5 GHz, 1MB L2 cache, DDR3-1866
  - A8 PRO-7600B: 4 cores, 3.8/3.1 GHz, 4MB L2 cache, DDR3-2133

**Graphics**

- **Integrated Graphics**
  - AMD Radeon

**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
- SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

**Optical**

- **DisplayPort**, one optional DP, supports up to two independent displays
- **DisplayPort** and **HDMI**
- **DisplayPort** to **DVI-D** monitor cable

**Chipset**

- **AMD A78 FCH**

**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)

**Preload**

- Some: Windows 7 Professional 32/64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 8 Professional 32
- Some: Windows 7 Professional 64
- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit

**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

**Note:** models listed above might not be available in all WE countries

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**Country Code**++**: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

*For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet*
## ThinkCentre M79 Tower (10CQ)

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Storage</th>
<th>Optical</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>Keyboard/Mouse</th>
<th>Power Supply</th>
<th>Preload</th>
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<th>Global</th>
<th>Ann Date (mm/yy)</th>
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### Note:
- models listed above might not be available in all WE countries
- For detailed platform specifications, please see ThinkCentre M79 Tower Platform Specifications sheet

**Country Code**++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

### Processor

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
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<th>L2 Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
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<tr>
<td>A8-6500B</td>
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<td>4.1/3.5</td>
<td>4MB</td>
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<td>AMD Radeon Graphics</td>
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<td>A6 PRO-7400B</td>
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<td>3.9/3.5</td>
<td>1MB</td>
<td>DDR3-1600, 2133</td>
<td>AMD Radeon R5 Series</td>
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<tr>
<td>A8 PRO-7600B</td>
<td>4</td>
<td>3.8/3.1</td>
<td>3MB</td>
<td>DDR3-2133, 2400</td>
<td>AMD Radeon R7 Series</td>
</tr>
</tbody>
</table>

### Memory

- **Disk**: 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
- **Onboard SATA Media reader**: SATA 6.0Gb/s controller, three connectors on planar, RAID 0/1 support

### Optical

- **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,
  - **NVIDIA GeForce GT 620**, DirectX 11, one VGA, one DisplayPort, 30W,
  - **Some**: AMD Radeon Graphics 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), ethernet (RJ-45), VGA, DisplayPort (1x standard + 1x optional), two PS/2 ports

### Rear 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 IEEE 1394**

### Audio support

- **High Definition (HD) Audio, Realtek ALC662 / internal speaker (1.5watt)**

### 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**: 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

- **Gigabit ethernet port, Realtek 8111EPV, Wake on LAN**

### Modem

- **None**

### See footnotes for more detailed information
ThinkCentre M83 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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</thead>
<tbody>
<tr>
<td>Core i3-4130T</td>
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<td>2.90 GHz</td>
<td>3MB</td>
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<td>Intel HD 4400</td>
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<tr>
<td>Core i3-4150T</td>
<td>2 / 4</td>
<td>3.00 GHz</td>
<td>3MB</td>
<td>DDR3-1600</td>
<td>Intel HD 4400</td>
</tr>
<tr>
<td>Core i5-4590T</td>
<td>4 / 4</td>
<td>2.00 / 3.00 GHz</td>
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<td>8MB</td>
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</tbody>
</table>

**Memory**

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets
* System automatically clocks down for processors with1333MHz 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 MLC NAND flash memory, 2.5" wide
Some: Solid State Drive (SSD) / 2.5" Wide

**Optical**

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

**Onboard SATA Media reader**

None

**Graphics**

Intel HD Graphics or Intel HD Graphics 4400/4600, in processor, uses main memory, DirectX™ 11, one VGA, one DisplayPort™, one optional HDMI 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)

**Audio support**

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

**LANÆ**

Some: 1Gb/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth 4.0 combo adapter, 1x1
Some: 1Gb/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 1Gb/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: 1Gb/a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 7260, Wi-Fi + Bluetooth 4.0 combo adapter, 2x2
Some: 1Gb/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**

One gigabit ethernet port, Intel I217-LM (Clarksville), 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
- Boot without keyboard and mouse
- Individual USB port disablement
- Optional Chassis intrusion switch

**Chassis**

7.06” W X 7.2” D X 1.4” H

**Power supply**

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

**Preload**

Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
Windows 7 Professional 32/64 Ready to install applications (some listed)
- Rescue and Recovery™
- Password Manager
- Preloaded applications (some listed)
  - ThinkVantage® Product Recovery
  - ThinkVantage System Update
  - ThinkVantage Communication Utility
  - PC Device Stage
  - Desktop Power Manager
  - View Management Utility
  - Lenovo Solution Center
  - Lenovo Message Center Plus
  - Lenovo SHAREIt
  - 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®
  - Nitro Pro
  - Norton™ Studio

**Environment**

ENERGY STAR® 6.0; EPEAT® Gold rating (U.S.); GREENGUARD®; RoHS-compliant; ErP Lot 3; UL Environment Gold; TUV; Cisco EnergyWise compatible

**Product Specifications Reference (PSREF)**

See footnotes for more detailed information

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ThinkCentre M83 Tiny (10E9) - TopSeller

Product Specifications Reference (PSREF)

Country Code*:++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

For detailed platform specifications, please see ThinkCentre M83 Tiny Platform Specifications sheet

### Processor

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Graphics</th>
<th>Memory</th>
<th>Storage</th>
<th>External optical / I/O box</th>
<th>WLAN DP Cable</th>
<th>Optional port</th>
<th>Chassis intrusion switch</th>
<th>Floor Stand</th>
<th>VESA mount</th>
<th>Keyboard / Mouse</th>
<th>Internal Speaker</th>
<th>Kensington cable lock</th>
<th>Preload</th>
<th>Base Warranty (year)</th>
<th>Global</th>
<th>Ann Date (mm/yy)</th>
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</thead>
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<td>10/14</td>
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</tr>
</tbody>
</table>

### Memory

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets

* System automatically docks 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) SSHD / with 8GB 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

Intel HD Graphics or Intel HD Graphics 4400/4600, in processor, uses main memory, DirectX with the Intel® Graphics media driver

### Graphics

Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor

### 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), one headphone / microphone combo jack (stereo, 3.5mm)

### I/O box

High Definition (HD) Audio, Realtek ALC233 / optional internal speaker (1.5 watt)

### Audio support

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 Dual Band Wireless-AC 7260, Wi-Fi + BT combo, 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®

### 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

### 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

See footnotes for more detailed information

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(G-MSK1N-1) October 2014
### ThinkCentre M83 Tiny (10E8)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Graphics</th>
<th>Memory</th>
<th>Storage</th>
<th>External optical / I/O box</th>
<th>WLAN</th>
<th>DP cable</th>
<th>Chassis intrusion switch</th>
<th>Floor Stand</th>
<th>VESA mount</th>
<th>Keyboard / Mouse</th>
<th>Internal Speaker</th>
<th>Kensington cable lock</th>
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<th>Base Warranty (year)</th>
<th>Global Warranty (year)</th>
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<td>Win7 P64</td>
<td>3-onsite IWS</td>
<td>Yes 11/14</td>
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</table>

#### Processor
- **Intel® Celeron®, Intel Pentium®, or 4th Generation Intel Core™ i3 / i5 / i7 Processor**
  - **Processor**
    - **Model**: Core i3-4130T 2 / 4 3.20 GHz 3MB DDR3-1600 Intel HD 4400
    - **Model**: Core i5-4590T 4 / 4 3.00 / 4.00 GHz 6MB DDR3-1600 Intel HD 4600
    - **Model**: Core i7-4785T 4 / 8 3.50 / 4.00 GHz 8MB DDR3-1600 Intel HD 4600

#### 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 controlled*

#### Disk
- **Some**: hard disk, 2.5" Wide, 500GB or 7200 rpm, Active Protection System™
- **Some**: 500GB (5400 rpm) S3DH / with 8GB 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

#### Optical
- **SATA 6.0Gb/s controller, one connector on planar controller

#### Onboard SATA Media reader
- **No**

#### Graphics
- **Intel HD Graphics or Intel HD Graphics 4400/4600**, in processor, uses main memory, DirectIX® 11, one VGA, one DisplayPort™, one optional HDMI 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)

#### 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, 200mm x 120mm x 50mm (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, RealtekRTL8723BE, Wi-Fi + BT 4.0 combo, 1x1
- **Some**: 11b/g/n, RealtekRTL8192EE, 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/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/Modem
- **One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®**

#### Country Code“++” :
- AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), M5 (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

### Note:
- models listed above might not be available in all WE countries
- For detailed platform specifications, please see ThinkCentre M83 Tiny Platform Specifications sheet

### Processor
- **Intel® Standard Manageability Security chip**: Trusted Platform Module, TCG 1.2-compliant
- **Security features**
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement
  - Administrator password
  - Optional Chassis intrusion switch

### Keyboard
- **KB**: Preferred Pro USB Keyboard (USB connector), Lenovo logo
- **MB**: Fingerprint Keyboard (USB connector), black
- **Mouse**: Enhanced Optical USB Mouse, black
- **Mouse**: Enhanced Optical Mouse (2.4GHz via USB receiver), black

### Mechanical
- **Tiny (1L)**, business black color; metal case
- **M83 Tiny only**: 7.0" W X 7.2" D X 1.4" H 179mm W X 182mm D X 34.5mm H
- **M83 Tiny with VESA mount & optical box**: 7.2" W X 7.2" D X 2.6" H 184mm W X 182mm D X 65mm H 5.1 lb (2.3 kg), weight may vary by configuration

### VESA mount Floor Stand
- **Optional VESA mount bracket kit, supports VESA 75mm and 100mm mechanical interface, optional system floor stand for vertical orientation**

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

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

See footnotes for more detailed information © Lenovo (G-MSK1N-2) December 2014
Lenovo ThinkCentre M83 Small Pro, Mini Tower

Lenovo ThinkCentre M83 Mini Tower with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M83 Mini Tower with optional WLAN and graphic card

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

Optional 2.5" bay on Lenovo ThinkCentre M83 Small Pro

* Come with optional 2.5" 2nd HDD

Lenovo ThinkCentre M83 Small Pro (inside view)
ThinkCentre M83 SFF Pro (10AJ) - ES 6.0 (TopSeller)

| Type-model | Slot x bay | Processor | Memory | SATA disk | SATA optical | PClé WLAN | Media reader | Graphics | Additional Front USB 2.0 | 2nd serial port | Chassis intrusion switch | Floor stand | ENERGY STAR 6.0 | Preload | Ann date (mm/dd/yy) |
|------------|------------|-----------|--------|-----------|--------------|-----------|-------------|----------|------------------------|----------------|------------------------|------------|---------------------|---------|-------------------|---------|
| 10AJ0001++ | 3x4        | Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller | 4GBx1   | 500G 7200 DVD±RW None | None | HD 4400 None | None | None | None | None | Switch | None | ES6.0 | Win7 Pro64 (DG) | 09/10/13 |
| 10AJ0002++ | 3x4        | Intel® Core™ i7-4770 Processor (4 cores / 4 threads, 3.5GHz, 6MB cache), Turbo Boost 2.0 (3.5GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller | 4GBx1   | 500G 7200 DVD±RW None | None | HD 4600 None | None | None | None | None | Switch | None | ES6.0 | Win7 Pro64 (DG) | 09/10/13 |
| 10AJ0003++ | 3x4        | Intel® Core™ i3-4430 Processor (4 cores / 4 threads, 3.2GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller | 4GBx1   | 500G 7200 DVD±RW None | None | HD 4600 None | None | None | None | None | Switch | None | ES6.0 | Win7 Pro64 (DG) | 09/10/13 |
| 10AJ0004++ | 3x4        | Intel® Core™ i5-4430 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller | 4GBx1   | 500G 7200 DVD±RW None | None | HD 4600 None | None | None | None | None | Switch | None | ES6.0 | Win7 Pro64 (DG) | 09/10/13 |

Country Code*:++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), JW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MR (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- Small and medium business (SMB) model(s), part of the Western Europe 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
- (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)

Preloaded applications
- EPEAT™ Gold rating
- ENERGY STAR® 6.0-compliant
- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD™ certified
- RoHS-compliant

Supports ThinkVantage Technologies

Limited Warranty
- 3-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

WE model(s) announced September 10, 2013

©Lenovo

(G-MSK1S-2) September 2013
ThinkCentre M83 SFF Pro (10AJ) - ES 6.0 (TopSeller) - II

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<th>rpm</th>
<th>SATA optical</th>
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<th>Media reader</th>
<th>Graphics</th>
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**Positioning**
- Mainstream enterprise stability and manageability

**Processor**
- Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
- Intel Core i5-4590 Processor (4 cores / 4 threads, 3.6GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core i5-4460 Processor (4 cores / 4 threads, 3.3GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation**
- Processor in LGA1150 socket
- Intel HD Graphics 4400 or 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays:
  - Maximum resolution: 2560x1600 (DisplayPort) @60Hz,
  - 1920x1200 (VGA) @60Hz (Reduced Blanking)

**Memory**
- 32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets

**Graphics**
- Intel HD Graphics 4400 or 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays:
  - Maximum resolution: 2560x1600 (DisplayPort) @60Hz,
  - 1920x1200 (VGA) @60Hz (Reduced Blanking)

**DP dongle**
- None

**Disk**
- SATA 6.0Gb/s 7200 rpm, 3.5" wide

**Optical**
- Super Multi-Burner DL DVDs/RW SATA 1.5Gb/s Drive

**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**
- Some: 29-in-1 media reader, internal USB 2.0

**Chipset**
- Intel® 865 Express Chipset

**Front ports**
- Two USB 3.0, 1 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™
  - Rear audio ports
    - Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
  - PCIe WLAN
    - None
  - Bluetooth
    - None
  - Audio
    - High Definition (HD) Audio, Realtek® ALC662 codec
  - Speaker
    - None
  - IEEE 1394
    - None
  - Ethernet
    - One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®
  - Manageability
    - Intel Standard Manageability
  - 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**
- Optional system floor stand for vertical orientation

**Power supply**
- 240 watts, autosensing, 85% PSU

**Machine**
- SFF Pro (12.9L), business black color; metal case
  - Memory: 4GBx1 500G 7200 DVD±RW
  - Processor: Intel Core i3-4150 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
  - Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**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, come with opt 2.5" 2nd disk
  - Bay 4: 2.5", 0.5" high, external, std optical

**Slot**
- Slot 1: Low Profile, PCI Express 3.0 x16 (40x max)
  - Slot 2: Low Profile, PCI-e 2.0 x1
  - Slot 3: Low Profile, PCI-e 2.0 x16 (x4 ecc, 40x max)

**Limited Warranty**
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / 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 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)

EPEAT® Gold rating
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information

©Lenovo (G-MSK1S-3) January 2015
### ThinkCentre M83 SFF Pro (10AH) - ES 6.0 (GMP)

**Product Specifications Reference (PSREF)**

#### Type-model: ThinkCentre M83 SFF Pro (10AH) - ES 6.0 (GMP)

<table>
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<tr>
<th>Type-model</th>
<th>Slot x bay</th>
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#### Positioning

**Mainstream enterprise stability and manageability**

- Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Processor in LGA1150 socket

**Implementation**

- 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, 1GB, PCI Express 2.0 x16 adapter, one VGA, DisplayPort, 30 watts, Max resolution: 2560x1600 (DisplayPort) @60Hz

**Disk**

- SATA 6.0/Gb/s, 7200 rpm, 2.5” wide

**Optical**

- DVD-ROM DL SATA 1.5Gb/s 16-48X Max Drive

- 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

#### 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)
- PClé WLAN: 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino Wireless-N 105, 1x1
- Bluetooth: 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 watt)
- IEEE 1394: None
- Ethernet: Gigabit ethernet port, Intel i217-LM (Clarksdale), Wake on LAN
- Manageability: Lenovo Stand Standard Manageability
- Modem: None

#### 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)

#### 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
- 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 (DVDs/RW, DVD)
- Cyberlink Power2Go (DVDs/RW)
- Cyberlink PowerProducer (DVDs/RW)
- Evernote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

#### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

---

**Country Code** +**:

- AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IT (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

**Note:** models listed above might not be available in all WE countries

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See footnotes for important warranty information

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(G-MSK1S-1) July 2014
ThinkCentre M83 Mini Tower (10BE) - ES 6.0 (TopSeller)

**Product Specifications Reference (PSREF)**

### Type-model

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**Country Code**++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IL (Israel), EE (Iceland), IT (Italy), NL (Belgium), MD (Denmark), M (France), ML (Luxembourg), RM (Norway), MS (Sweden), MX (Switzerland), NV (Netherlands), P (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- **Small and medium business (SMB) model(s), part of the Western Europe TopSeller™ Program**

### 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**
- **Turbo Boost 2.0 (3.2GHz)**, Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Intel Core i7-4770 Processor (4 cores / 4 threads, 3.6GHz, 8MB cache)**
- **Intel HD Graphics 4600, 1600MHz DDR3 memory controller**
- **Intel Core i5-4430 Processor (4 cores / 4 threads, 3.0GHz, 6MB cache)**
- **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 4400 or 4600 in processor, uses main memory, DirectX® 11**, one VGA, two DisplayPort™, supports three independent displays:
  - **Maximum resolution:** 2560x1600 (DisplayPort @60Hz)
  - 1920x1200 (VGA) @60Hz (Reduced Blanking)

### Optical

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

### SATATA controller

- **Serial ATA 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**

### Media reader

- **Some:** 29-in-1 media reader, internal USB 2.0

### Chipset

- **Intel Q85 Express Chipset**

### Front ports

- **Two USB 3.0**, two optional USB 2.0, microphone (stereo, 3.5mm), microphone (stereo, 3.5mm), headset (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 additional VGA, two 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

- **None**

### Bluetooth

- **None**

### Audio

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

### Speaker

- **None**

### IEEE 1394

- **None**

### Ethernet

- **One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®**

### Manageability

- **Intel Standard Manageability**

### Modern

- **None**

### Security chip

- **Trusted Platform Module (TPM1.2-compliant)**

### Keyboard

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

### Mouse

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

### Machine

- **280 watts, autosensing, 85% PSU**

### Bay

- **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 cover, optical drive removal**

### Bay

- **1: 5.25”, 1.6” high, access, standard optical**
- **2: 5.25”, 1.6” high, access, open**
- **3: 3.5”, 1” high, access, opt reader**
- **4: 3.5”, 1” high, no access, standard disk**
- **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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / 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
  - 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 optional Kensington® MicroSaver® cable)**
- **Power-on password**
- **Administrator password**
- **Hard disk password**
- **Boo t 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 REV.1.0**

- **Supports ThinkVantage Technologies**

See footnotes for important warranty information

WE model(s) announced September 10, 2013 or March 25, 2014

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(M-GSK1T-1) March 2014
ThinkCentre M83 Mini Tower (10BE) - ES 6.0 (TopSeller) - II

Product Specifications Reference (PSREF)

Positioning
Mainstream enterprise stability and manageability

Processor
Intel® Core™ i3-4150 Processor (2 cores / 4 threads, 3.2GHz, 6MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller

Implementation
Processor in LGA1150 socket

Memory
32GB max, four 240-pin DIMM sockets

Graphics
Intel HD Graphics 4400 or 4600 in processor, uses main memory, DirectX® 11, one VGA, two DisplayPort™, supports three independent displays; Maximum resolution: 2560x1600 (DisplayPort)@60Hz, 1920x1200 (VGA)@60Hz (Reduced Blanking)

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

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

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

Onboard BATA
Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)

Media reader
Some: 29-in-1 media reader, internal USB 2.0

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, optional 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
None

Bluetooth
None

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

Speaker
Optional internal speaker for business audio (1 watt)

IEEE 1394
None

Ethernet
One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN®

Manageability
Intel Standard Manageability

Modem
None

Security chip
Trusted Platform Module (TPM1.2 compatible)

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

Mouse
Enhanced Optical USB Mouse, black, Lenovo logo

Power supply
280 watts, autoseizing, 85% PSU

Machine
Mini Tower (25L), business black color, metal case

Bay
Bay 1: 5.25”, 16” high, access, opt standard
Bay 2: 5.25”, 16” high, access, opt standard
Bay 3: 3.5”, 1” high, access, opt reader
Bay 4: 3.5”, 1” high, no access, opt standard
Bay 5: 3.5”, 1” high, no access, opt standard

Slot
Slot 1: half-height, full-height, PCIe 3.0 x16 (75w max)
Slot 2: half-height, full-height, PCIe 3.0 x16 (75w max)

Limited Warranty
3-years limited onsite service, 8 am-5 pm, Mon- Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

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 optional)
- 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
RoHS-compliant
GREENGUARD® certified
Supports ThinkVantage Technologies

(C)Lenovo (G-MSK1T-3) January 2015
## ThinkCentre M83 Mini Tower (10AG) - ES 6.0 (GMP)

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### Positioning
- **Mainstream enterprise stability and manageability**
- **Intel Core i5-4570 Processor (4 cores / 4 threads, 3.4GHz, 5MB cache)**, Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1800MHz DDR3 memory controller
- **Intel Core i5-4590 Processor (4 cores / 4 threads, 3.4GHz, 6MB cache)**, Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1800MHz DDR3 memory controller
- **Intel LGA1150 socket**

### Graphics
- **Intel HD Graphics 4600** in processor, uses main memory, DirectX 9 11, 12, 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 8470, DirectX 11, 3D Hardware Acceleration,
- **Some:** NVIDIA GeForce GT 620, DirectX 11, 3D Hardware Acceleration
- **Intel Q85 Express Chipset**

### Disk
- **SATA 6.0Gb/s 7200 rpm, 3.5" wide**
- **Some:** DVD-ROM DL SATA 1.5Gb/s 16-48X Max Drive
- **Some:** Super Multi-Burner DL DVDrW SATA 1.5Gb/s Drive

### Optical
- **Some:** Intel Centrino Wireless-N 105, 1x1
- **Some:** Intel Centrino Wireless-H 105, 1x1
- **Some:** Intel Centrino Wireless-N 105, 1x1

### Memory
- **32GB max, UDIMM, PC3-12800 1600MHz DDR3, four 240-pin DIMM sockets**

### Power supply
- **280 watts, autosensing, 85% PSU**

### 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**
- **Intrusion detection**
- **Security chip**
- **Security chip (see information on left)**

### Product Specifications Reference (PSREF)

- **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
  - 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)

### Limited Warranty
- **3-years, limited onsite service**
- **5 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available**

See footnotes for important warranty information ©Lenovo (G-MSK1T-2) July 2014
ThinkCentre M83z with frame stand and wireless mouse/keyboard

ThinkCentre M83z with monitor stand (tilt-only)

ThinkCentre M83z with monitor stand (full-function)

ThinkCentre M83z with frame stand

ThinkCentre M83z with monitor stand (tilt-only)

ThinkCentre M83z with monitor stand (full-function)

See footnotes for more detailed information
### ThinkCentre M83z Platform Specifications

#### Processor

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Clock Speed</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium G3220</td>
<td>2 / 2</td>
<td>3.0 GHz</td>
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<td>3MB</td>
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<td>Core i3-4130</td>
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<td>3MB</td>
<td>DDR3-1600</td>
<td>Intel HD 4400</td>
</tr>
<tr>
<td>Core i3-4150</td>
<td>2 / 4</td>
<td>3.5 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR3-1600</td>
<td>Intel HD 4400</td>
</tr>
<tr>
<td>Core i5-4430S</td>
<td>4 / 4</td>
<td>2.7 GHz</td>
<td>3.2 GHz</td>
<td>6MB</td>
<td>DDR3-1600</td>
<td>Intel HD 4400</td>
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<tr>
<td>Core i5-4440S</td>
<td>4 / 4</td>
<td>2.9 GHz</td>
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<td>DDR3-1600</td>
<td>Intel HD 4600</td>
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<td>2.9 GHz</td>
<td>3.6 GHz</td>
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<td>DDR3-1600</td>
<td>Intel HD 4600</td>
</tr>
<tr>
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<td>4 / 4</td>
<td>3.0 GHz</td>
<td>3.7 GHz</td>
<td>6MB</td>
<td>DDR3-1600</td>
<td>Intel HD 4600</td>
</tr>
<tr>
<td>Core i7-4770S</td>
<td>4 / 8</td>
<td>3.1 GHz</td>
<td>3.9 GHz</td>
<td>8MB</td>
<td>DDR3-1600</td>
<td>Intel HD 4600</td>
</tr>
</tbody>
</table>

#### Memory

- 16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- * System automatically clocks down for processors with 1333MHz DDR3 memory controller

#### 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 DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

#### Optical Media reader

- Optional 7-in-1 single slot media card reader

#### Graphics

- Intel HD Graphics or Intel HD Graphics 4400/4600 in processor, uses main memory, DirectX 11, one VGA-out, supports dual independent displays
- Maximum resolution: 1920x1200 (VGA) @60Hz (Reduced Blankning)

#### Display

- 21.5" (546.1mm) Full HD 1080p (1920x1080) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare

#### Multi-touch

- None

#### Camera

- Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator, physical switch on/off
- 1080p camera, 2.0-megapixel, fixed focus, dual array digital microphone, LED indicator, physical switch on/off

#### Controls

- Brightness up/down and power button on right side

#### Chipset

- Intel H81 Express Chipset

#### Rear ports

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

#### Side ports

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

#### Audio support

- High Definition (HD) Audio, Realtek ALC269VC / internal speakers (2watt x 2)

#### WLAN

- Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth combo adapter, 1x1
- Some: 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8192EE, Wi-Fi + Bluetooth combo adapter, 2x2
- Some: 11a/b/g/n wireless, PCIe Half Mini Card, Intel Centrino 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

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

#### Ethernet

- One gigabit ethernet port, Intel I217-V, Wake on LAN

#### vPro & iAMT

- None

#### Security chip

- Trusted Platform Module, TCG 1.2-compliant

#### 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
- Optional Chassis intrusion switch

#### Keyboard

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

#### Mechanical

- Business black color
- Support VESA mount (100mm)

#### Dimensions (WxDxH)

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight (Maximum)</th>
<th>Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>M83z with frame stand</td>
<td>21.26&quot; X 3.70&quot; X 15.59&quot;</td>
<td>16.53 lb (7.5 kg)</td>
</tr>
<tr>
<td>Tilt: 10° to 25° back</td>
<td></td>
<td></td>
</tr>
<tr>
<td>M83z with monitor stand (full-function)</td>
<td>21.26&quot; X 9.84&quot; X 17.56&quot;</td>
<td>21.93 lb (9.95 kg)</td>
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<tr>
<td>Tilt: 25° back, -5° forward</td>
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<td></td>
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<tr>
<td>Lift: 110mm Swivel: +/-45°</td>
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<td></td>
</tr>
<tr>
<td>M83z with monitor stand (till-only)</td>
<td>21.26&quot; X 6.69&quot; X 16.65&quot;</td>
<td>19.82 lb (8.99 kg)</td>
</tr>
<tr>
<td>Tilt: 45° back, -5° forward</td>
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</tr>
</tbody>
</table>

#### Power supply

- 150 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

#### Preload

- Windows® 7 Professional 64 reinstalled 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 Solution Center
- 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®
- Nitro Pro
- AccuWeather
- Norton™ Studio
- Pokki
- Hightail

#### Environment

- EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant
- Cisco EnergyWise compatible, EuP Lot 3

See footnotes for more detailed information
## ThinkCentre M83z (10C2) - TopSeller

### Type-model Specifications

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-Touch</th>
<th>Graphics</th>
<th>Camera</th>
<th>Storage</th>
<th>Optical</th>
<th>WLAN</th>
<th>Media reader</th>
<th>Serial &amp; PS/2 port</th>
<th>Chassis Intrusion switch</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
<th>Preload</th>
<th>Base Warranty (year)</th>
<th>Global</th>
<th>Ann Date (mm/yy)</th>
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<tbody>
<tr>
<td>10C20000++</td>
<td>G3220</td>
<td>4GBx1</td>
<td>21.5” FHD None</td>
<td>Intel HD</td>
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<td>7200</td>
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<td>04/14</td>
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<td>10C20001++</td>
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<td>7200</td>
<td>Media</td>
<td>None</td>
<td>Switch Frame</td>
<td>USB Win7 P64 DG Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>07/14</td>
<td>04/14</td>
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<td>No</td>
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<tr>
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<td>i5-4460S</td>
<td>4GBx1</td>
<td>21.5” FHD None</td>
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<td>7200</td>
<td>Media</td>
<td>RTL8723BE</td>
<td>None</td>
<td>Switch Frame</td>
<td>USB Win7 P64 DG Win8.1</td>
<td>3-onsite</td>
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<td>07/14</td>
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<td>Intel HD</td>
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<td>720p</td>
<td>7200</td>
<td>Media</td>
<td>None</td>
<td>Switch Frame</td>
<td>USB Win7 P64 DG Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>07/14</td>
<td>07/14</td>
<td></td>
<td>No</td>
<td></td>
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<td>21.5” FHD None</td>
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<td>4400</td>
<td>720p</td>
<td>7200</td>
<td>Media</td>
<td>RTL8723BE</td>
<td>None</td>
<td>Switch Frame</td>
<td>USB Win7 P64 DG Win8.1</td>
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<td>07/14</td>
<td></td>
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<td>8GBx1</td>
<td>21.5” FHD None</td>
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<td>4600</td>
<td>500G</td>
<td>7200</td>
<td>Media</td>
<td>RTL8723BE</td>
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<td>Switch Frame</td>
<td>USB Win7 P64 DG Win8.1</td>
<td>3-onsite</td>
<td>No</td>
<td>09/14</td>
<td>09/14</td>
<td></td>
<td>No</td>
</tr>
</tbody>
</table>

### Processor Specifications

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Clock Speed</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium G3220</td>
<td>2 / 2</td>
<td>3.0 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR3-1333</td>
<td>Intel HD</td>
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<tr>
<td>Core i3-4130</td>
<td>2 / 4</td>
<td>3.4 GHz</td>
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<tr>
<td>Core i5-4460S</td>
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<td>3.4 GHz</td>
<td>6MB</td>
<td>DDR3-1333</td>
<td>Intel HD</td>
</tr>
</tbody>
</table>

### Memory Specifications

16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

* System automatically clocks down for processors with 1333MHz DDR3 memory controller

### Disk Specifications

- 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

### Optical Media reader

Optional 7-in-1 single slot media card reader

### Graphics Specifications

- Intel HD Graphics or Intel HD Graphics 4400/6000 in processor, uses main memory, DirectX11, one VGA-out, supports dual independent display
- Maximum resolution: 1920x1200 (VGA) @60Hz (Reduced Blanking)

### Display Specifications

- 21.5” (546.1mm) Full HD 1080p (1920x1080) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare

### Multi-touch Camera

- Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator, physical switch on/off
- Some: 1080p camera, 2.0-megapixel, fixed focus, dual array digital microphone, LED indicator, physical switch on/off

### Controls

Brightness up/down and power button on right side

### Chipset

Intel H81 Express Chipset

### Rear ports

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

### Side ports

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

### PCI© Mini Card

One PCI Express Mini Card slot (half size, for WLAN)

---

**Country Code “++”:** AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

*For detailed platform specifications, please see ThinkCentre M83z Platform Specifications sheet

---

**Audio support**

- High Definition (HD) Audio, Realtek ALC269VC / internal speakers (2watt x 2)

**WLAN**

- Some: 11a/b/g/n, Realtek RTL8723BE, Wi-Fi + BT combo
- Some: 11a/b/g/n, Realtek RTL8192EE, Wi-Fi + BT combo
- Some: 11b/g/n, Intel Centrino Wireless-N 7260, Wi-Fi + BT combo
- Some: 11a/c/b/g/n, Intel Dual Band Wireless-AC 7260, Wi-Fi + BT combo

**Ethernet**

- Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- One gigabit ethernet port, Intel I217-V, Wake on LAN

**vPro & AMT 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
- Chassis intrusion switch on selected model(s)

**Keyboard**

- Some: Preferred Pro USB Keyboard (USB connector), 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**

- Administrator password

**Mechanical**

- Business black color
- Support VESA mount (100mm)

**Power supply**

- 150 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

**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

**Environment**

- EPEAT® Gold, ENERGY STAR® 6.0, GREENGUARD®; RoHS-compliant
- Cisco EnergyWise compatible; EUP Lot 3

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See footnotes for more detailed information © Lenovo

(G-CODB1-1) September 2014
**Type-model** | **Processor** | **Memory** | **Display** | **WLAN** | **Preload** | **Base Warranty/Service** | **Ann Date (mm/dd/yyyy)**
--- | --- | --- | --- | --- | --- | --- | ---
10C3001J++ | i7-4770S | 4GBx1 | None | HD 4600 | 720p | USB | Win7 P64 DG Win8.1 | 07/14
10C3000V++ | i5-4590S | 4GBx1 | None | HD 4600 | 720p | USB | Win7 P64 DG Win8.1 | 07/14
10C30014++ | i3-4130 | 4GBx1 | None | HD 4400 | 720p | USB | Win8.1 Pro64 | 07/14
10C3000P++ | i3-4130 | 4GBx1 | None | HD 4400 | 720p | USB | Win7 P64 DG Win8.1 | 05/14
10C3000Q++ | i5-4430S | 4GBx1 | None | HD 4600 | 720p | USB | Win7 P64 DG Win8.1 | 05/14
10C3000U++ | i3-4130 | 4GBx1 | None | HD 4400 | 720p | USB | Win7 P64 DG Win8.1 | 05/14
10C30020++ | i3-4130 | 4GBx1 | None | HD 4400 | 720p | USB | Win7 P64 DG Win8.1 | 05/14
10C30021++ | i5-4590S | 4GBx1 | None | HD 4600 | 720p | USB | Win7 P64 DG Win8.1 | 05/14

**Country Code**++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- For detailed platform specifications, please see ThinkCentre M83z Platform Specifications sheet

---

**Processor**

- **Intel® Celeron®, Pentium®, or 4th Generation Core™ i3 / i5 / i7 Processor**

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<th>Cores / Threads</th>
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<td>Intel HD</td>
<td></td>
<td></td>
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<tr>
<td>Core i3-4130</td>
<td>2 / 2</td>
<td>3.4 GHz</td>
<td>3MB DDR3-1600</td>
<td>Intel HD 4400</td>
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</table>

**Memory**

- 16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- * System automatically clocks down for processors with1333MHz DDR3 memory controller

**Disk**

- **Intell® HD Graphics or Intel® HD Graphics 4400/4600** in processor, uses main memory, DirectX™ 11, one VGA-out, supports dual independent display
- **Maximum resolution:** 1920x1080 (VGA) @60Hz (Reduced Blanking)

**Display**

- 21.5" (54.61mm) Full HD 1080p (1920x1080) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare

**Multi-touch Camera**

- None
  - 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator, physical switch on/off
  - 1080p camera, 2.0-megapixel, fixed focus, dual array digital microphone, LED indicator, physical switch on/off

**Controls**

- Brightness up/down and power button on right side

**Chipset**

- Intel® H81 Express Chipset

**Rear ports**

- Two USB 2.0, ethernet (RJ-45), VGA-out, optional serial (9-pin), optional PS/2 ports

**Side ports**

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

**Audio support**

- High Definition (HD) Audio, Realtek ALC269VC / internal speakers (2watt x 2)

---

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(G-CODB1-2) July 2014
Lenovo ThinkCentre M93/M93p Mini Tower with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Mini Tower with optional WLAN and graphic card

Lenovo ThinkCentre M93/M93p Small Pro with Lenovo ThinkVision Monitor

Lenovo ThinkCentre M93/M93p Small Pro with optional dual graphic cards
* Cable lock only available on some special bid models

Lenovo ThinkCentre M93/M93p Small Pro (inside view)

Optional 2.5" bay on Lenovo ThinkCentre M93/M93p Small Pro
* Come with optional 2.5" 2nd HDD
### Product Specifications Reference (PSREF)

#### ThinkCentre M93 Tiny (10A5) - TopSeller

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
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<th>SATA disk</th>
<th>External optical / I/O box</th>
<th>PCIe Mini Card</th>
<th>Optional port</th>
<th>DP to DVI</th>
<th>Chassis intrusion switch</th>
<th>Security</th>
<th>Floor stand</th>
<th>VESA Keyboard mount / mouse</th>
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</table>

Country Code*++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Georgia w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- **Small and medium business (SMB) model(s)**, part of the Western Europe TopSeller™ Program

### ThinkCentre M93 Tiny (10A5) – TopSeller

- **Positioning**: Ultimate security, stability, and manageability for the enterprise
- **Processor**: Intel® Core™ i3-4130T Processor (2 cores / 4 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics 4400, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Implementation**: Intel Core i3-4150T Processor (2 cores / 4 threads, 3.0GHz, 3MB cache), integrated Intel HD Graphics 4400, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Memory**: 16GB max, two 204-pin SODIMM sockets (notebook) PC3-12800 1600MHz DDR3, Virtualization Technology

- **DP dongle**: DisplayPort to Single-link DVI-D Cable
- **Disk**: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide
- **External optical SATA controller**: external optical box with slim DVD burner, 12.7mm high, tray-in, via USB 3.0
- **Onboard SATA cable**: SATA 6.0Gb/s support, integrated in chipset
- **Chassis intrusion switch**: 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
- **Security**: 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
- **Preloaded operating system**:
  - 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)
- 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available
ThinkCentre M93 Mini Tower (10A1) - TopSeller

Product Specifications Reference (PSREF)

Country Code+: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

Small and medium business (SMB) model(s), part of the Western Europe TopSeller™ Program

Preloaded operating system

Some: No operating system
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
• 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 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 (for Windows models)
ENERGY STAR® 6.0-compliant (for Windows models)
ULE Gold
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available
ThinkCentre M93p Tiny (10AB) - TopSeller

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory*</th>
<th>SATA disk</th>
<th>External optical / I/O box</th>
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<th>VESA mount / Keyboard / Mouse / vPro</th>
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<td>Win7 Pro64 (DG)</td>
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</table>

Positioning: Ultimate security, stability, and manageability for the enterprise
Processor:
- **Intel Core i5-4590T Processor (2 cores / 4 threads, 2.0GHz, 6MB cache)**
- **Intel Core i5-4590T Processor (2 cores / 4 threads, 2.0GHz, 6MB cache)**
- **Intel Core i5-4590T Processor (2 cores / 4 threads, 2.0GHz, 6MB cache)**
- **Intel Core i5-4570T Processor (2 cores / 4 threads, 2.0GHz, 6MB cache)**
- **Intel Core i7-4785T Processor (2 cores / 4 threads, 2.0GHz, 6MB cache)**

Memory: 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets
Graphics:
- Intel HD Graphics 4600 in processor, uses main memory, Direct2X 11, one VGA, one DisplayPort, one optional HDMI or one optional 2nd DisplayPort on select models, supports up to triple independent display.

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 (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 (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)
- 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information ©Lenovo

(G-MS1N-1) July 2014
ThinkCentre M93p Tiny (10AA) - GMP

<table>
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<th>Type-model</th>
<th>Processor</th>
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<th>SATA disk</th>
<th>External optical / I/O box</th>
<th>PCIe Mini Card</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA Keyboard</th>
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### Positioning

**Processor**

- Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 3.20GHz, 4MB cache)
- Turbo Boost 2.0 (3.60GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.50GHz, 6MB cache)
- Turbo Boost 2.0 (3.00GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel® Core™ i5-4570T Processor (2 cores / 4 threads, 2.50GHz, 8MB cache)
- Turbo Boost 2.0 (3.00GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation**

Processor in LGA1150 socket

**Memory**

16GB max, 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 3.0Gb/s, 2.5" Wide, 5400 rpm
- 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
- Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" Wide

Some:
- 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
- external optical box with slim DVD burner, 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
- Serial ATA, SATA 6.0Gb/s support, integrated in chipset
- Serial ATA, SATA 6.0Gb/s support, integrated in chipset
- 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 Q87 Express Chipset

**Audio**

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

**Speaker**

Internal speaker for business audio (1.5 watt)

**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**

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 standard

**Power supply**

65 watts AC/DC adapter, auto-sensing, 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, 5 am-5 pm, Mon - Fri covering exclusive public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / 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
- 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 disabilment
- 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

See footnotes for important warranty information

©Lenovo (G-MSS1N2-1) June 2014
## ThinkCentre M93p Tiny (10AA) - GMP - II

### Product Specifications Reference (PSREF)

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<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCle Mini Card</th>
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<th>Floor stand</th>
<th>VESA mount</th>
<th>Intel vPro Global (G) (GMP)</th>
<th>Preload</th>
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### Positioning

- Ultimate security, stability, and manageability for the enterprise
- 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

### Processor

- Intel Core i7-4785T Processor (8 cores / 8 threads, 2.2GHz, 8MB cache)
- Turbo Boost 2.0 (3.2GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Memory

- 16GB max, 2x16GB, DDR3 1866MHz, 1.35V, non-ECC, 1.35V, non-ECC, 1.35V
- Security chip: Trusted Platform Module (TPM1.2-compliant)

### Graphics

- Intel HD Graphics 4600 in processor, uses main memory, DirectX 11, one VGA, one USB 3.0, 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)

### Disk

- SATA 6.0Gb/s, 2.5" Wide, 7200 rpm
- 1TB 7200 rpm, 5400 rpm, 500GB 7200 rpm, 500GB 5400 rpm

### External optical

- External optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB 3.0
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz; 1920x1080 (HDMI)@60Hz; 1920x1200 (VGA)@60Hz (Reduced Blanking)

### Onboard SATA controller

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

### Chipset

- Intel Q87 Express Chipset
- Intel 82801ba USB controller, integrated in Intel 82801ba USB controller

### Front ports

- Two USB 3.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
- USB 2.0, 1.1, and 10/100 Ethernet

### 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)
- External optical box with slim DVD-ROM, 12.7mm high, tray-in, via USB 3.0
- OptiPlex 3040 SFF, 4040 SFF, 5040 SFF, 7040 SFF, 7040 Tower, 3050 Tiny, 5050 Tiny, 7050 Tiny

### Audio

- Intel HD Audio, Realtek ALC662 codec
- High-Definition Audio

### Speaker

- Internal speaker for business audio (1.5 watt)
- Microphone (stereo, 3.5mm)

### IEEE 1394

- One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN
- Intel Desktop Board DQ977WVBA, Intel Desktop Board DQ977WVB

### Ethernet

- Intel AMT Intel Active Management Technology 9.0 (Intel AMT 9.0)
- Intel AMT Intel Active Management Technology

### Modem

- None

### Security chip

- Trusted Platform Module (TPM1.2-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

### 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
- M93/p Tiny only: 7.0" W X 7.2" D X 1.4" H
- M93/p Tiny: 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: 7.2" W X 7.2" D X 2.55" H
- With VESA mount & optical box: 2x2 Chrome, 2x2 Chrome, 2x2 Chrome
- 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

- Supports ThinkVantage Technologies

### Preloaded operating system

- Some: Windows 7 Professional 64
- Some: Windows 7 Professional 64

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

- Rescue and Recovery™
- Password Manager

### Preloaded applications (only some listed)

- ThinkVantage Desktop Productivity Center
- 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)
- 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
- Boot with keyboard and mouse
- Administrator password
- Power-on password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement
- Chassis intrusion switch on selected model(s)

### ENERGY STAR® Gold rating

- LEAP™ Gold rating
- ENERGY STAR® 6.0-compliant
- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD® certified RoHS-compliant

See footnotes for important warranty information.

©Lenovo (G-MSS1N-4) December 2014
### ThinkCentre M93p Tiny (10DH) - GMP (TIO models)

#### Product Specifications Reference (PSREF)

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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Chassis intrusion switch</th>
<th>Floor stand</th>
<th>VESA mount</th>
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<th>M (P)</th>
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<td>P</td>
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<td>10/14/14</td>
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</table>

- **Positioning**
  - Ultimate security, stability, and manageability for the enterprise

- **Processor**
  - Intel® Core™ i5-4570T (2 cores / 4 threads, 2.0GHz, 8MB cache)
  - Intel® Core™ i7-4765T (4 cores / 8 threads, 2.0GHz, 8MB cache)

- **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 Vega, 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)

- **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 2.0 (one Always On / Powered), one microphone (stereo, 3.5mm), one headphone / microphone combo jack (stereo, 3.5mm)
  - Extra USB 2.0 / serial / 2nd DisplayPort / HDMI on selected models

- **Disk**
  - Some: SATA 3.0Gb/s, 2.5" Wide, 5400 rpm
  - 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

- **Preinstalled applications**
  - 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)
  - Norton™ Antivirus
  - Norton™ Antivirus

- **Power-on password**
  - Administrator password

- **Limited Warranty**
  - 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / 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*
<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>Additional Front USB 2.0</th>
<th>2nd serial port</th>
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Country Code++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology
- 1-year limited warranty

---

### Positioning

**Ultimate security, stability, and manageability for the enterprise**

### Processor

**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

### Implementation

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

### Disk

SATA 6.0Gb/s 7200 rpm, 3.5" wide

### Optical controller

DVD-ROM DL SATA 1.5Gb/s 16-48x Max Drive

### Onboard SATA

Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support

### eSATA port

Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one eSATA connector (SATA 6.0Gb/s)

### 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), 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)

### eSATA controller

None

### Media reader

None

### 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

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, 85% PSU

### Machine

- SFF Pro (12.9L), 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
- 11b/g/n wireless, PCIE Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
- 11b/g/n wireless, PCIE Half Mini Card, Intel Centrino® Wireless-N 105, 1x1
- 11b/g/n wireless, PCIE Half Mini Card, Intel Centrino® Wireless-N 105, 1x1

### Bay

- 5.25"; 1.6" high, external, std optical
- Bay 1: 5.25", 1.6" high, external, optical drive bay
- Bay 2: 3.5", 1" high, internal, std disk
- Bay 3: 2.5", N/A, internal, opt, come with opt 2.5" 2nd disk
- Bay 4: 2.5", 0.9" high, external, opt reader

### Slot

- 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 elec, 40w max)
- Slot 4: Low Profile, 32-bit PCI 2.3

### Limited Warranty

1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

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See footnotes for important warranty information

WE model(s) announced June 18, 2013

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(G-MSS1S-1) June 2013
ThinkCentre M93p SFF Pro (10A8) - GMP

ThinkCentre M93p SFF Pro (10A8) - GMP

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 (3.6GHz), 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 i7-4770 Processor (4 cores / 4 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Intel Core i7-4770 Processor (4 cores / 4 threads, 3.8GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Implementation
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 Blankin)

Some: AMD Radeon HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express x16 adapter, one VGA, one DisplayPort, 25 watts;

Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

Some: NVIDIA GeForce GT 620, DirectX 11, 1GB, PCI Express x16 adapter, one VGA, one DisplayPort, 30 watts;

Max resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@85Hz

Ready to install applications (only some listed)

- Rescue and Recovery™
- Password Manager

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

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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

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(G-MSS1S-2) July 2014
## Product Specifications Reference (PSREF)

### ThinkCentre M93p Mini Tower (10A7) - TopSeller

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<th>PCIe WLAN</th>
<th>Media reader</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™
- 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)

### Machine
- Mini Tower (25L), business black color, metal case
- (WX/DX): 6.89” X 17.41” X 16.32”
- (WxDxH): 175mm X 442.3mm X 414.5mm
- 24.69 lb (11.20 kg) in maximum configuration
- 6.89” X 17.41” X 16.32”
- Toolless disk, optical drive removal
- Toolless cover removal, adapter retention
- Toolless disk, optical drive removal

### Security chip
- Trusted Platform Module (TPM1.2-compliant)

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

### Power supply
- 280 watts, auto-ranging, 85% PSU

### Limited Warranty
- 3 years, limited onsite service, 5 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

---

**See footnotes for important warranty information**

©Lenovo (G-MSS1T-3) July 2014
## ThinkCentre M93p Mini Tower (10A6)

### 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</th>
<th>SATA optical</th>
<th>PCIe WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Additional Front USB 2.0</th>
<th>2nd serial port</th>
<th>Chassis intrusion switch</th>
<th>Intel vPro</th>
<th>Global</th>
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</table>

**Country Code**:++

Note: models listed above might not be available in all WE countries

**ThinkCentre M93p Mini Tower (10A6)**

- **Disk SATA**: 6.0Gb/s 7200 rpm, 3.5" wide
- **Optical**: DVD-ROM DL SATA 1.5Gb/s 16-48X Max 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)
- **Audio**: High Definition (HD) Audio, Realtek® ALC662 codec
- **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, autosensing, 85% PSU

**Preloaded operating system**
Windows® 7 Professional 64

**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 (DVDr+RW, DVD)
- Cyberlink Power2Go (DVDr+RW)
- Cyberlink PowerProducer (DVDr+RW)
- Eversnote
- Intel AppUp
- Intel Small Business Advantage
- Nitro Pro

**Limited Warranty**
1-year limited warranty

- **Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **Positioning**
  - Ultimate security, stability, and manageability for the enterprise
- **Processor**
  - Intel® Core™ i7-4770 Processor (4 cores / 8 threads, 3.4GHz, 8MB cache), Turbo Boost 2.0 (3.5GHz), integrated Intel HD Graphics 4600, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology
- **Implementation**
  - 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: 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**
  - SATA 6.0Gb/s 7200 rpm, 3.5" wide
- **Optical**
  - DVD±R/RW 8x, DVD±R DL 8x, DVD±RW 8x (±R DL 4x), CD-R/RW 24x (±RW 16x), CD-RW 48x (±RW 24x)
- **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)
- **Audio**: High Definition (HD) Audio, Realtek® ALC662 codec
- **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)
- **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"; 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", 1.0" high, access, opt reader
- Bay 4: 3.5", 1.0" high, no access, std disk
- Bay 5: 3.5", 1.0" 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 x16 (x4 ecc, 75w max)
- Slot 4: half-length, full-height, 32-bit PCI 2.3

**Limited Warranty**
1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See notes for important warranty information

WE model(s) announced June 18, 2013

©Lenovo

(G-MSS1T-1) June 2013
ThinkCentre M93p Mini Tower (10A6) - GMP

<table>
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<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
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<th>Optical</th>
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**Positioning**
- Ultimate security, stability, and manageability for the enterprise
- Intel Core i7-4570 Processor (4 cores / 4 threads, 3.4GHz, 8MB cache)
- Turbo Boost 2.0 (3.9GHz)
- Intel HD Graphics 4600

**Disk**
- SATA 6.0Gb/s 7200 rpm, 3.5" wide
- Some: DVD-ROM DL SATA 1.5Gb/s 16-48X Max

**Onboard SATA**
- Two SATA cables (each 1-drop to device), three SATA 6.0Gb/s connectors, one SATA connector (SATA 6.0Gb/s)
- Some: Serial ATA, SATA 6.0Gb/s, integrated in chipset, RAID 0/1 support

**Chipset**
- Intel Q87 Express Chipset
- Ultimate security, stability, and manageability for the enterprise

**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;
- Some: AMD Radeon™ HD 8470, DirectX 11, 3D Hardware Acceleration, 512MB, PCI Express® 2.0 x16 adapter, one VGA, one DisplayPort, 25 watts,
- Intel Core i7-4770 Processor (4 cores / 4 threads, 3.4GHz, 8MB cache)
- Turbo Boost 2.0 (3.9GHz)
- Intel HD Graphics 4600

**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
- 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)
- EPEAT® Gold rating
- ENERGY STAR® 6.0-compliant
- ULE Gold
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- Supports ThinkVantage Technologies

**Limited Warranty**
- 3-years, limited onsite service
- 8 am-5 pm, Mon - Fri coverage excluding public and national holidays.
- Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information
ThinkCentre M92z All-In-One

Lenovo ThinkCentre M92z with Frame Stand

Lenovo ThinkCentre M92z with Monitor Stand

Toolless Back Cover Removal

Toolless Stand Removal

Dual Independent Display with Optional Lenovo ThinkVision Monitor
Type-model: Processor Memory* Graphics PCle Mini Card WLAN Media reader Light sensor Serial & PS/2 port Chassis Intrusion switch Stand type
3280-A4G G645 4GBx1 2.0M 500G 7200 Intel HD 11b/g/n Media None S P Switch Frame USB None None Win7 Pro64 10/23/12

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

Positioning

Processor: Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology
Implementation: Processor in LGA1155 socket

Memory: 16GB max,

Graphics: Intel HD Graphics in processor, uses main memory, external digital monitor support via DisplayPort™ supports dual independent display;

DP dongle: None

Display: 20.0" (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector

Light sensor: None

Multi-touch: None

Camera: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off

Controls: Front: Microphone mute, speaker mute, monitor mode, OSD menu, and power button

Side: Volume up and down buttons

Disk: 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), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

Media reader: None

Chipset: Intel Q77 Express Chipset

Rear ports: Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

Side ports ExpressCard: None

PCle Mini Card: One PCI Express® Mini Card slot

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

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

Ethernet: One gigabit ethernet port, Intel 82579LM, Wake on LAN™

Audio support: Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

Intel AMT: Intel Active Management Technology 8.0 (Intel AMT 8.0)

Security chip: Trusted Platform Module (TPM 1.2-compliant)

Keyboard: Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo™ logo Enhanced Optical USB Mouse, black, Lenovo logo

Power supply: 150 watts, autosensing, 85% PSU

Machine: Model(s) with 20" Non multi-touch, Frame stand:
- Business black color
- 19.8" W X 3.6" D X 16.1" H
- 503mm W X 92.5mm D X 408mm H (including stand)
- 18.5 lb (8.4 kg) in maximum configuration
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

Limited Warranty: 1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

Preloaded operating system: Genuine Windows® 7 Professional 64

Ready to install applications (only some listed):
- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

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
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton® Internet Security (30 days of virus definitions)
- Adobe® Reader®
- 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)

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
- 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® 5.2-compliant
- TCO Certified Edge
- TUV Green Mark
- ULE Gold
- EuP 2013
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information

WE model announced October 23, 2012

©Lenovo

(G-MTRL1-13) February 2013
ThinkCentre M92z (3291) - 20" (TopSeller) - Win 8

Product Specifications Reference (PSREF)

| Type-model | Processor | Memory | Graphics | Optics | Audio | Chassis | Stand | Keyboard/Mouse | Preflash | Preload | Ann date (mm/dd/yy)
|------------|-----------|--------|----------|--------|-------|---------|-------|----------------|----------|---------|-----------------
| 3291-E3G   | G2020     | 4GBx1  | 2.0M     | 500G    | 2.0M  | Switch  | Frame | USB None       | None     | None    | 06/11/13        |
| 3291-E4G   | G2020     | 4GBx1  | 2.0M     | 500G    | 2.0M  | Switch  | Frame | USB None       | None     | None    | 06/11/13        |
| 3291-E5G   | G2030     | 4GBx1  | 2.0M     | 500G    | 2.0M  | Switch  | Frame | USB None       | None     | None    | 06/11/13        |
| 3291-E6G   | G2030     | 4GBx1  | 2.0M     | 500G    | 2.0M  | Switch  | Frame | USB None       | None     | None    | 06/11/13        |

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

**Positioning**

- **Processor**
  - Premium All-In-One PC for the enterprise
  - **Intel® Pentium® G2020 Processor (2 cores / 2 threads, 2.9GHz, 3MB cache)**, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
  - **Intel Pentium G2030 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache)**, integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

**Implementation**

- **Processor**
  - In LGA1155 socket

**Memory**

- **16GB max, PC3-12800 1600MHz DDR3**, two 204-pin SODIMM sockets (notebook)

**Graphics**

- **Intel HD Graphics** in processor, uses main memory, external digital monitor support via DisplayPort™, supports dual independent display
- **Maximum resolution: 2560x1600 (DisplayPort)@60Hz**
- **Intel HD Graphics**, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology

**Display**

- **20.0” (508mm) HD+ (1600x900) TFT color**, LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector

**Camera**

- **Camera on top of screen, 2.0-megapixel, fixed focus**, integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Light Sensor**

- **Ambient Light Sensor**, Microphone mute, speaker mute, monitor mode, OSD menu, and power button

**Multi-touch Camera**

- **Camera on top of screen, 2.0-megapixel, fixed focus**, integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Controls**

- **Microphone mute, speaker mute, monitor mode, OSD menu, and power button**

**Disk**

- **SATA 6.0Gb/s, 3.5” Wide, 7200 rpm**

**Onboard SATA**

- **Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar**

**Chipset**

- **Intel G77 Express Chipset**

**Rear ports**

- **Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)**

**Side ports**

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

**ExpressCard**

- **One mSATA slot**

**PCIe Mini Card**

- **One PCI Express™ Mini Card slot**

**PCIe WLAN**

- **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 Intel 2230 Wi-Fi + Bluetooth combo adapter**

**Ethernet**

- **One gigabit ethernet port, Intel 82579LM, Wake on LAN**

**Audio support**

- **High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ Audio support**
- **Intel Active Management Technology 8.0 (Intel AMT 8.0)**

**Intel AMT Security Chip**

- **Trust Platform Module (TPM 1.2-compliant)**

**Keyboard**

- ** Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo**

**Mouse**

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

**Power supply**

- **150 watts, autoseizing, 85% PSU**

**Machine**

- **Model(s) with 20” Non multi-touch, Frame stand:**
  - Business black color
  - 19.8” W X 3.6” D X 16.1” H,
  - 503mm W X 92.5mm D X 408mm H (including stand)
  - 18.5 lb (8.4 kg) in maximum configuration
  - 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available**

See footnotes for important warranty information

WE models announced March 26, 2013 or June 11, 2013

©Lenovo (M-CTRL1-16) JUne 2013
**ThinkCentre M92z (3296) - 20"**

**Product Specifications Reference (PSREF)**

### Graphics
- **Intel® HD Graphics or Intel HD Graphics 2000** in processor,
- **Use main memory, HDCP, DirectX® 10.1,**
- **External digital monitor support via DisplayPort™,** supports dual independent display;
- **Maximum resolution: 2560x1600 (DisplayPort) at 60Hz**

### Audio support
- **High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2),**
- **Work as standalone monitor via DisplayPort-in connector**

### Light sensor
- **None**

### Multi-touch
- **None**

### Camera
- **Some:** Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off

### Controls
- **Front:** Microphone mute, speaker mute, monitor mode, OSD menu, and power button
- **Side:** Volume up and down buttons

### Disk
- **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), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar media reader**

### Media reader
- **Some:** 11-in-1 Single Slot SD media reader

### Chipset
- **Intel® Q77 Express Chipset**

### Rear ports
- **Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)**

### Side ports
- **Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)**

### ExpressCard
- **None**

### mSATA
- **One mSATA slot**

### PCIe Mini Card
- **One PCI Express® Mini Card slot**

### PCIe WLAN
- **None**

### Bluetooth
- **None**

### Ethernet
- **One gigabit ethernet port, Intel 82579LM, Wake on LAN™**

### Audio support
- **High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified**

### Intel AMT
- **Intel Active Management Technology 8.0 (Intel AMT 8.0)**

### Security chip
- **Trusted Platform Module (TPM 1.2-compliant)**

### Keyboard
- **Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo Enhanced Optical USB Mouse, black, Lenovo logo 150 watts, autosensing, 85% PSU**

### Machine
- **Model(s) with 20" Non multi-touch, Frame stand:**
  - Business black color
  - 19.8" W X 3.6" D X 16.1" H
  - 503mm W X 92.5mm D X 408mm H (including stand)
  - 18.5 lb (8.4 kg) in maximum configuration
  - Toolless back cover, stand removal
  - Toolless disk, optical drive, memory removal
  - Support VESA mount (100mm)

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**Limited Warranty**

- **3-years, limited onsite service,** 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatched / service upgrades available

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**Preloaded operating system™**

- Genuine Windows® 7 Professional 64

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

**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
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- 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)

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**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
- 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® 5.2-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

©Lenovo

WE models announced June 5, 2012

(G-MTRL1-4) February 2013
3296-H4G  i3-3220 4GBx1  2.0M  500G  7200  HD 2500  11b/g/n  Media  None  S P  Switch  Monitor  USB  None  None  Win8 Pro64  10/23/12

- 3-year limited warranty

**Positioning**

**Processor**

Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller

**Memory**

16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

**Graphics**

Intel HD Graphics 2500 in processor, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @60Hz

**Display**

20.0” (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector

**Light sensor**

None

**Camera**

Some: Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Controls**

Front: Microphone mute, speaker mute, monitor mode, OSD menu, and power button

Side: Volume up and down buttons

**Disk**

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), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

**Media reader**

11-in-1 Single Slot SD media reader

**Chipset**

Intel Q77 Express Chipset

**Rear ports**

Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports**

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

**ExpressCard**

None

**mSATA**

One mSATA slot

**PCIe Mini Card**

One PCIe Express® Mini Card slot

**PCIe WLAN**

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 Intel 2230 Wi-Fi + Bluetooth combo adapter

**Ethernet**

One gigabit ethernet port, Intel 82579LM, Wake on LAN™

**Audio support**

High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

**Intel AMT**

Intel Active Management Technology 8.0 (Intel AMT 8.0)

**Security chip**

Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**

Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo

**Mouse**

Enhanced Optical USB Mouse, black, Lenovo logo

**Power supply**

150 watts, autosensing, 85% PSU

**Machine**

Model(s) with 20” Non multi-touch, Monitor stand:

- Business black color
- 19.8” W X 5.6” D X 17.6” H
- 503mm W x 143mm D x 448mm H (including stand)
- 23.0 lb (10.5 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

**Preloaded operating system**

Windows® 8 Pro 64-bit

**Preloaded applications (only some listed)**

- ThinkVantage® System Update
- ThinkVantage Automatic Lock Utility
- View Management Utility
- Lenovo® Support
- Lenovo Settings
- Lenovo Companion
- Lenovo Cloud Storage
- Lenovo QuickLaunch
- Lenovo Solution Center
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)
- Norton Studio
- Intel AppUp™
- AccuWeather
- PC Device Stage
- Evertone™
- Skype™
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

**Supports ThinkVantage Technologies**
<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Core™ i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD Graphics 4000, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology VtX, supports Independent Display, DirectX™ 11, external digital monitor support via DisplayPort™, supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort) @ 60Hz</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 4000 in processor, uses main memory, DirectX™ 11, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology VtX</td>
</tr>
<tr>
<td>Display</td>
<td>20.0&quot; (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, work as standalone monitor via DisplayPort-in connector</td>
</tr>
<tr>
<td>Light sensor</td>
<td>Ambient Light Sensor</td>
</tr>
<tr>
<td>Multi-touch</td>
<td>None</td>
</tr>
<tr>
<td>Camera</td>
<td>Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off</td>
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<td>Disk</td>
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<tr>
<td>Optical</td>
<td>DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable</td>
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<td>Onboard SATA</td>
<td>Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar</td>
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<tr>
<td>Media reader</td>
<td>11-in-1 Single Slot SD media reader</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® Q77 Express Chipset</td>
</tr>
<tr>
<td>Rear ports</td>
<td>Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)</td>
</tr>
<tr>
<td>Side ExpressCard</td>
<td>Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</td>
</tr>
<tr>
<td>mSATA</td>
<td>One mSATA slot</td>
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<tr>
<td>PCI Mini Card</td>
<td>One PCI Express™ Mini Card slot</td>
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<tr>
<td>PCIe Mini Card</td>
<td>One PCI Express™ Mini Card slot</td>
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<tr>
<td>PCIe WLAN</td>
<td>11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</td>
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<td>Ethernet</td>
<td>One gigabit ethernet port, Intel 82579LM, Wake on LAN™</td>
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<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified</td>
</tr>
<tr>
<td>Intel AMT Security chip</td>
<td>Intel Active Management Technology 8.0 (Intel AMT 8.0)</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo</td>
</tr>
<tr>
<td>Mouse</td>
<td>Enhanced Optical USB Mouse, black, Lenovo logo</td>
</tr>
<tr>
<td>Power supply</td>
<td>150 watts, autosensing, 85% PSU</td>
</tr>
<tr>
<td>Machine</td>
<td>Model(s) with 20&quot; Non multi-touch, Frame stand: Business black color 19.8&quot; W X 3.6&quot; D X 16.1&quot; H, 503mm W X 92.5mm D X 408mm H (including stand), 18.5 lb (8.4 kg) in maximum configuration Toolless back cover, stand removal Toolless disk, optical drive, memory removal Support VESA mount (100mm)</td>
</tr>
<tr>
<td>Limited Warranty</td>
<td>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available</td>
</tr>
</tbody>
</table>

Preloaded operating system: Genuine Windows® 7 Professional 64

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

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
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- 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)

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
- 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
TCO Certified Edge
TUV Green Mark
ULE Gold
EuP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies
ThinkCentre M92z (3298) - 20" (GMP) - Win 8

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

- Windows 7 models

- Windows 8 models

- All models

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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

GreenGUARD® Gold rating
Cisco EnergyWise compatible
EU P 2013

See footnotes for important warranty information
WE models announced October 23, 2012
©Lenovo

(M-GTR1-15) February 2013
### Product Specifications Reference (PSREF)

**ThinkCentre M92z (3318) - 23" (TopSeller)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCle Mini Card 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>Key-board/ Mouse</th>
<th>Intel vPro</th>
<th>Win7 pre-load</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3318-C7G</td>
<td>i3-2120</td>
<td>4GBx1</td>
<td>2.0M HD 2000</td>
<td>11b/g/n Media None None Switch Monitor USB None None Pro 64</td>
<td>07/10/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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**Positioning**

*Premium All-In-One PC for the enterprise*

**Processor**

*Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket*

**Memory**

16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

**Graphics**

Intel HD Graphics 2000 in processor, uses main memory, HDCP, DirectX® 10.1, external digital terminal monitor via DisplayPort™, supports dual independent display; *Maximum resolution*: 2560x1600 (DisplayPort)@60Hz

**Display**

23.0" (580.4mm) Full HD 1080p (1920x1080) TFT color, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector

**Light sensor**

None

**Camera**

Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Chipset**

Intel Q77 Express Chipset

**Disk**

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), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar media reader

**Media reader**

11-in-1 Single Slot SD media reader

**Rear ports**

Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports**

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

**ExpressCard mSATA**

One mSATA slot

**PCle Mini Card**

One PCI Express Mini Card slot

**PCle WLAN**

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

**Bluetooth**

Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

**Ethernet**

One gigabit ethernet port, Intel 82579LM, Wake on LAN®

**Audio support**

High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio® v2 certified, Microsoft Lync™ certified

**Intel AMT**

Intel Active Management Technology 8.0 (Intel AMT 8.0)

**Security chip**

Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**

Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo

**Power supply**

150 watts, autosensing, 85% PSU

**Machine**

Model(s) with 23" Non multi-touch, Monitor stand:

- Business black color
- 22.4" W X 9.7" D X 17.8" H
- 568mm W X 247mm D X 452mm H (including stand)
- 25.7 lb (11.7 kg) in maximum configuration
- Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
- 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

**Preloaded operating system™**

Genuine Windows® 7

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

- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

**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
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security
- (30 days of virus definitions)
- Adobe® Reader®
- 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)

**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
- 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**

- ENERGY STAR® 5.2-compliant
- TCO Certified Edge
- TUV Green Mark
- ULE Gold
- EUP 2013
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant

Supports ThinkVantage Technologies
ThinkCentre M92z (3318) - 23" (TopSeller) - Win 8

Product Specifications Reference (PSREF)

**Graphics**
- Two 204-pin SODIMM sockets (notebook)
- Maximum expansion: 2560x1600
- 60Hz

**Display**
- Full HD 1080p (1920x1080) TFT color, IPS wide viewing angle,
- LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio,
- work as standalone monitor via DisplayPort-in connector

**Light sensor and Multi-touch**
- Camera on top of screen, 2.0-megapixel, fixed focus,
- integrated digital MIC array with stereo LED indicator, physical switch on/off

**Disk**
- 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),
- one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

**Media reader**
- 11-in-1 Single Slot SD media reader

**Chipset**
- Intel Q77 Express Chipset

**Rear ports**
- Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional mouse (PS/2)
- Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

**Side ports**
- ExpressCard
- One mSATA slot
- One PCI Express Mini Card slot
- One PCI Express Half Mini Card, Intel Centrino Wireless-N 2230,
- Wi-Fi + Bluetooth combo adapter, 2x2

**Bluetooth**
- Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

**Ethernet**
- One gigabit ethernet port, Intel 82579LM, Wake on LAN

**Audio support**
- High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2),
- Dolby Advanced Audio v2 certified, Microsoft Lync certified

**Intel AMT**
- Intel Active Management Technology 8.0 (Intel AMT 8.0)

**Security chip**
- Trusted Platform Module (TPM 1.2-compliant)

**Keyboard Mouse**
- Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo
- Enhanced Optical USB Mouse, black, Lenovo logo

**Power supply**
- 150 watts, autosensing, 85% PSU

**Machine**
- Model(s) with 23" Non multi-touch, Monitor stand:
  - Business black color
  - 22.4" W X 9.7" D X 17.8" H
  - 568mm W X 247mm D X 452mm H (including stand)
  - 25.7 lb (11.7 kg) in maximum configuration
  - Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
  - 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 public and national holidays.
- Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available
- Small and medium business (SMB) model(s), part of the Western Europe TopSeller™ Program
- 3-year limited warranty

**Preloaded operating system**
- Windows 8 Professional 64-bit

**Preloaded applications (only some listed)**
- Windows 7 models
  - ThinkVantage Product Recovery
  - ThinkVantage Communication Utility
  - ThinkVantage Power Manager
  - Lenovo SimpleTap
  - Adobe Reader
  - Corel Burn.Now™ (DVD±RW)
  - Corel DVD MovieFactory™ (DVD±RW)

- Windows 8 models
  - Lenovo Support
  - Lenovo Settings
  - Lenovo Companion
  - Lenovo Cloud Storage
  - Norton™ Studio
  - AccuWeather
  - Evernote
  - Cyberlink Power2Go (DVD±RW)
  - Cyberlink PowerProducer (DVD±RW)

- All models
  - ThinkVantage System Update
  - ThinkVantage Automatic Lock Utility
  - Lenovo Solution Center
  - View Management Utility
  - Norton Internet Security
  - Microsoft Office preloaded; purchase a product key to activate
  - Skype

- 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
  - 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® 5.2-compliant
  - TCO Certified Edge
  - TUV Green Mark
  - ULE Gold
  - EUp 2013
  - Cisco EnergyWise compatible
  - GREENGUARD® certified
  - RoHS-compliant

- Supports ThinkVantage Technologies

See footnotes for important warranty information

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(G-MTRL1-10) June 2013
ThinkCentre M92z (3322) - 23"

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>3322-A1G</td>
<td>G630</td>
<td>2GBx1</td>
</tr>
</tbody>
</table>

### Graphics
- Intel HD Graphics
- Two 204-pin SODIMM sockets (notebook)
- PC3-12800 1600MHz DDR3
- Memory 16GB max,
- Audio support High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2),

### Processor
- Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.7GHz, 3MB cache),
- Integrated HD Graphics,
- Integrated 1066MHz dual-channel DDR3 memory controller, Virtualization Technology
- Processor in LGA1155 socket

### Memory
- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

### Display
- 23.0" (580.4mm) Full HD 1080p (1920x1080) TFT color, IPS wide viewing angle,
- LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio,
- Work as standalone monitor via DisplayPort-in connector
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz
- External digital monitor support via DisplayPort
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz
- Maximum resolution: 2560x1600 (DisplayPort)@60Hz

### Disk
- SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- DVD-ROM DL SATA 1.5Gb/s 16-48X Max Drive, 12.7mm high, fixed, not removable
- One SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

### Chipset
- Intel Q77 Express Chipset

### Rear ports
- Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)
- Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

### Side ports
- ExpressCard None
- mSATA None
- PCIe Mini Card One PCI Express® Mini Card slot
- PCIe WLAN None
- Bluetooth None
- Ethernet One gigabit ethernet port, Intel 82579LM, Wake on LAN®

### Audio support
- High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2),
- Dolby® Advanced Audio v2 certified, Microsoft Lync™ certified

### Intel AMT
- Intel Active Management Technology 8.0 (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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

### Preloaded operating system (only some listed)
- Genuine Windows® 7 Professional 64
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchase a product key to activate

### Limited Warranty
- 1-year limited warranty

See footnotes for important warranty information

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(G-MTRL1-5) February 2013
### ThinkCentre M92z (3325) - 23"

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<th>Type-model</th>
<th>Processor</th>
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<tbody>
<tr>
<td>3325-A9G</td>
<td>i7-3770S</td>
<td>4GBx1</td>
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</table>

<table>
<thead>
<tr>
<th>Camera (megapixel)</th>
<th>Disk SATA GB rpm</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>Intrusion switch</th>
<th>Stand type</th>
<th>Key-board/ Mouse</th>
<th>Intel</th>
<th>Win7 preload</th>
<th>Ann date (mm/dd/yy)</th>
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<tbody>
<tr>
<td>2.0M</td>
<td>1TB 7200</td>
<td>HD 4000</td>
<td>11b/g/n Media</td>
<td>None</td>
<td>S P Switch</td>
<td>Monitor 2.4G</td>
<td>vPro None Pro 64</td>
<td>06/05/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Additional Information
- **Next Generation Intel platform with latest Intel vPro™ Technology and Intel Active Management Technology**
- **3-year limited warranty**

**Positioning**
- **Premium All-In-One PC for the enterprise**

**Processor**
- **Intel® Core™ i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),** Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket

**Implementation**
- Intel

**Memory**
- 16GB max, two 204-pin SODIMM sockets (notebook)

**Graphics**
- Intel HD Graphics 4000 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" (588.4mm) Full HD 1080p (1920x1080) TFT color, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector

**Light sensor**
- None

**Multi-touch Camera**
- Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Controls**
- **Front:** Microphone mute, speaker mute, monitor mode, OSD menu, and power button
- **Side:** Volume up and down buttons

**Disk**
- 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), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

**Media reader**
- 11-in-1 Single Slot SD media reader

**Chipset**
- Intel Q77 Express Chipset

**Rear ports**
- Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports**
- Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)

**ExpressCard**
- One mSATA slot

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

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

**Bluetooth**
- Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

**Ethernet**
- One gigabit ethernet port, Intel 82579LM, Wake on LAN®,

**Audio support**
- High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

**Intel AMT**
- Intel Active Management Technology 8.0 (Intel AMT 8.0)

**Security chip**
- Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**
- Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

**Mouse**
- Ultraslim Plus Wireless Mouse (2.4GHz via USB receiver), black

**Power supply**
- 150 watts, autosensing, 85% PSU

**Machine**
- **Model(s) with 23" Non multi-touch, Monitor stand:**
  - Business black color
  - 22.4" W X 9.7" D X 17.8" H
  - 568mm W X 247mm D X 452mm H (including stand)
  - 25.7 lb (11.7 kg) in maximum configuration
  - Tilt: 45° back, -5° forward; Lift: 110mm; Swivel: +/-45°
  - Toolless back cover, stand removal
  - Toolless disk, optical drive, memory removal
  - Support VESA mount (100mm)

### Preloaded operating system
- Genuine Windows® 7 Professional 64

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

### 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
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft® Office preloaded; purchasing a product key to activate
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory® (DVD±RW)

### 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
- 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

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See footnotes for important warranty information  
WE model announced June 5, 2012  
©Lenovo  
(G-MTRL1-6) February 2013
<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Display-Port dongle</th>
<th>PClE Card</th>
<th>Media reader</th>
<th>Light &amp; PS/2 port</th>
<th>Serial port</th>
<th>Chassis intrusion switch</th>
<th>Stand type</th>
<th>Keyboard/ Mouse/ vPro/ Windows preloaded</th>
<th>Win8 preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3325-H6G 53470S 4GBx1 2.0M 500G 7200HD 2500 None</td>
<td>i5-3330S</td>
<td>4GBx1</td>
<td>2.0M 180G SSD HD 2500 None</td>
<td>11b/g Media None</td>
<td>S P</td>
<td>Switch Monitor USB vPro</td>
<td>None</td>
<td>None</td>
<td>12/04/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3325-H6G 53470S 4GBx1 2.0M 1TB 7200 HD 2500 DP-DVI-D</td>
<td>i3-3220</td>
<td>4GBx1</td>
<td>2.0M 900G SSD HD 2500 None</td>
<td>11b/g Media None</td>
<td>S P</td>
<td>Switch Monitor USB vPro</td>
<td>None</td>
<td>None</td>
<td>10/23/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![ThinkCentre M92z (3325) - 23" (Win 8)](https://www.lenovo.com)

**Positioning**

**Processor** Premium All-In-One PC for the enterprise

Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500;

Intel Core i5-3330S Processor (4 cores / 4 threads, 2.7GHz, 6MB cache), Turbo Boost 2.0 (3.2GHz), integrated Intel HD 2500 Graphics;

Intel Core i5-33470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, Virtualization Technology

**Implementation**

Processor in LGA1155 socket

**Graphics**

Integrated Intel HD Graphics 2500, 2.9GHz, 6MB cache,

Turbo Boost 2.0 (3.2GHz), integrated Intel HD 2500 Graphics,

Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, Virtualization Technology

**Memory**

16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

**Display**

Integrated Intel HD Graphics 2500, uses main memory, DirectX® 11, external digital monitor support via DisplayPort™, supports dual independent displays;

Maximum resolution: 2560x1600 (DisplayPort) @ 60Hz

**Light sensor**

None

**Controls**

Camera on top of screen, 2.0-megapixel, fixed focus,

Integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Disk**

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

**Optical**

Hard Disk Drive / SATA 6.0Gb/s, 3.5" Wide, 7200 rpm

**Onboard SATA**

Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

**Chips**

Intel Q77 Express Chipset

**Preloaded operating system**

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

Some: Windows 8 Pro 64-bit

**Preloaded applications**

- Windows 7 models
- Windows 8 models

- ThinkVantage® Product Recovery
- ThinkVantage Communication Utility
- ThinkVantage Power Manager
- Lenovo® SimpleTap
- Adobe® Reader®
- Corel® Burn.Now™ (DVD±RW)
- Corel DVD MovieFactory™ (DVD±RW)

- All models

- ThinkVantage System Update
- ThinkVantage Automatic Lock Utility
- Lenovo Solution Center
- View Management Utility
- Norton Internet Security
- Microsoft® Office preloaded; purchase a product key to activate
- Skype™

**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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disabling
- 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

See footnotes for important warranty information

WE models announced October 23 or December 4, 2012

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(G-MTR1L-1-11) February 2013
ThinkCentre M92z (3327) - 23" (GMP)

Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>3327-A4G i7-3770S</td>
<td>4GBx1</td>
</tr>
</tbody>
</table>

- **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**

<table>
<thead>
<tr>
<th>Positioning</th>
<th>Processor</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Premium All-In-One PC for the enterprise</td>
<td>Intel® Core™ i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Memory</th>
<th>Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)</td>
<td>Intel HD Graphics 4000 integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology, Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, 4 cores / 8 threads</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Display</th>
<th>DP dongle</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.0&quot; (580.4mm) Full HD 1080p (1920x1080) TFT color, IPS wide viewing angle, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Controls</th>
<th>Disk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front: Microphone mute, speaker mute, monitor mode, OSD menu, and power button</td>
<td>SATA 6.0Gb/s, 3.5&quot; Wide, 7200 rpm</td>
</tr>
<tr>
<td>Side: Volume up and down buttons</td>
<td>Optical</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optical</th>
<th>Onboard SATA</th>
<th>Memory reader</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable</td>
<td>Two SATA cables (each 1-drop to device), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar</td>
<td>11-in-1 Single Slot SD media reader</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chipset</th>
<th>Rear ports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Q77 Express Chipset</td>
<td>Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Side ports</th>
<th>ExpessCard</th>
<th>mSATA</th>
<th>PCIe Mini Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</td>
<td>None</td>
<td>One mSATA slot</td>
<td>One PCI Express® Mini Card slot</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>PCIe WLAN</th>
<th>Bluetooth</th>
<th>Ethernet</th>
<th>Audio support</th>
</tr>
</thead>
<tbody>
<tr>
<td>11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</td>
<td>Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter</td>
<td>One gigabit ethernet port, Intel 82579LM, Wake on LAN™</td>
<td>High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Intel AMT</th>
<th>Security chip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel Active Management Technology 8.0 (Intel AMT 8.0)</td>
<td>Trusted Platform Module (TPM 1.2-compliant)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keyboard</th>
<th>Mouse</th>
<th>Power supply</th>
<th>Machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo® logo</td>
<td>Enhanced Optical USB Mouse, black, Lenovo logo</td>
<td>150 watts, autosensing, 85% PSU</td>
<td>Model(s) with 23&quot; Non multi-touch, Frame stand:</td>
</tr>
</tbody>
</table>

- Business black color
- 22.4" W X 3.7" D X 17.6" H
- 568mm W X 93mm D X 447mm H (including stand)
- 21.5 lb (9.8 kg) in maximum configuration
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

<table>
<thead>
<tr>
<th>Limited Warranty</th>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available</td>
<td>● Security chip (see information on left)</td>
</tr>
</tbody>
</table>

Preloaded operating system:
- Genuine Windows® 7 Professional 64

Ready to install applications (only some listed):
- Rescue and Recovery™
- Password Manager
- Business-in-a-Box

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
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- 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)

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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

Energy Star compliant:
- EPEAT™ Gold rating
- ENERGY STAR® 5.2-compliant
- TCO Certified Edge
- TUV Green Mark
- ULE Gold
- EuP 2013
- Cisco EnergyWise compatible
- GREENGUARD™ certified
- RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information
WE model announced June 5, 2012 ©Lenovo

(G-MTRL1-2) February 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>3327-ABG 4GBx1</td>
<td>Intel Core i5-3470S</td>
<td>4GBx1</td>
</tr>
<tr>
<td>3327-B2G 4GBx1</td>
<td>Intel Core i5-3470S</td>
<td>4GBx1</td>
</tr>
</tbody>
</table>

**Positioning**

- **Processor**: Intel Core™ i5-3470S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.6GHz), integrated Intel HD 2500 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology (VT-x), supports dual independent display; Maximum resolution: 2560x1600 (DisplayPort)@60Hz

**Memory**

- 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

**Graphics**

- Intel HD Graphics 2500 in processor, uses main memory, DirectX 11, external display via DisplayPort™, supports dual independent display

**Display**

- 23.0" (580.4mm) Full HD 1080p (1920x1080) TFT color, IPS wide viewing angle, LED backlight, 600 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector

**Light sensor**

- Ambient Light Sensor

**Multi-touch**

- None

**Camera**

- Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Front Ports**

- Microphone mute, speaker mute, monitor mode, OSD menu, and power button

**Side Ports**

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

**Rear Ports**

- Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports**

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

**mSATA**

- One mSATA slot

**PCle Mini Card**

- One PCle Express Mini Card slot

**PCle WLAN**

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

**Bluetooth**

- Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

**Ethernet**

- One gigabit ethernet port, Intel 82579LM, Wake on LAN™

**Audio support**

- High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3Watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

**Intel AMT**

- Intel Active Management Technology 8.0 (Intel AMT 8.0)

**Security chip**

- Trusted Platform Module (TPM 1.2-compliant)

**Keyboard Mouse**

- Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo logo
- Enhanced Optical USB Mouse, black, Lenovo logo

**Machine**

- Model(s) with 23" Non multi-touch, Frame stand:
  - Business black color
  - 22.4" X 3.7" D X 17.6" H
  - 568mm X 93mm D X 447mm H (including stand)
  - 21.5 lb (9.8 kg) in maximum configuration
  - 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available.

See footnotes for important warranty information

WE models announced October 23, 2012 ©Lenovo

(G-MTRL1-12) February 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor Memory</th>
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<tbody>
<tr>
<td>3311-B8G i5-3470S</td>
<td>4GBx1</td>
</tr>
</tbody>
</table>

**Positioning**
- **Premium All-In-One PC for the enterprise**

**Processor**
- **Intel Core i5-3470S Processor (4 cores / 4 threads)**
  - Turbo Boost 2.0 (3.6GHz)
  - Integrated Intel HD 2500 Graphics
  - Integrates 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket

**Memory**
- 16GB max.
- PC3-12800 1600MHz DDR3, two 204-pin SODIMMs sockets (notebook)

**Graphics**
- Intel HD Graphics 2500 in processor, uses main memory, DirectX 11, external digital monitor support via DisplayPort™, supports dual independent display
- Maximum resolution: 2560x1600 (DisplayPort™) 60Hz

**Display**
- 23" (580.4mm) Full HD 1080p (1920x1080) TFT color
- IPS wide viewing angle
- Anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
- Work as a standalone monitor via displayPort-in connector

**Audio support**
- High Definition (HD) Audio, Realtek ALC272
- Two internal stereo speakers (3watt x 2)
- Integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Light sensor**
- None

**Multi-touch**
- 2-point support

**Camera**
- Camera on top of screen, 2.0-megapixel, fixed focus
- Integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Controls**
- Front: Microphone mute, speaker mute, monitor mode, OSD menu, and power button
- Side: Volume up and down buttons

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

**Optical**
- DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable

**Onboard SATA**
- One SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

**Media reader**
- 11-in-1 Single Slot SD media reader

**Chipset**
- Intel Q77 Express Chipset

**Network**
- One gigabit ethernet port, Intel 82579LM, Wake on LAN

**Bluetooth**
- Bluetooth 4.0 wireless, integrated in Intel 2230 Wi-Fi + Bluetooth combo adapter

**Camera**
- Camera on top of screen, 2.0-megapixel, fixed focus

**Light sensor**
- None

**Multi-touch**
- 2-point support

**Display**
- Camera on top of screen, 2.0-megapixel, fixed focus

**Light sensor**
- None

**Operating System**
- Genuine Windows® 7 Professional 64

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

**Preloaded applications (only some listed)**
- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton™ Internet Security (30 days of virus definitions)
- Adobe® Reader®
- 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)

**Machine**
- Business black color
- 22.4" W 3.9" D 17.6" H
- 568mm W 100mm D 447mm H (including stand)
- 23.9 lb (10.9 kg) in maximum configuration
- Toolless back cover, stand removal
- Toolless disk, optical drive, memory removal
- Support VESA mount (100mm)

**Power supply**
- 150 watts, autosensing, 85% PSU

**Limited Warranty**
- 3-years, limited onsite service
- 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

---

See footnotes for important warranty information

WE model announced July 10, 2012

©Lenovo

(G-MTRL1-9) February 2013
## ThinkCentre M92z (3314) - 23\" (Multi-touch)

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<thead>
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<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Display Port</th>
<th>Mini Card</th>
<th>LAN</th>
<th>Reader</th>
<th>Light</th>
<th>Serial &amp; PS/2</th>
<th>Power Connectors</th>
<th>Chassis Intrusion Switch</th>
<th>Stand Type</th>
<th>Key/Board</th>
<th>Mouse</th>
<th>VPro</th>
<th>Warranty</th>
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<tbody>
<tr>
<td>3314-B1G</td>
<td>i5-3550S</td>
<td>4GB</td>
<td>Intel HD Graphics 2500</td>
<td>DP-to-DVI-D</td>
<td>11b/g/n Media None</td>
<td>None</td>
<td>Switch</td>
<td>Frame</td>
<td>USB</td>
<td>None</td>
<td>Non Pro 64 06/05/12</td>
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<tr>
<td>3314-B3G</td>
<td>i3-3770S</td>
<td>4GB</td>
<td>Intel HD Graphics 2500</td>
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<td>11b/g/n Media None</td>
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<td>Switch</td>
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<tr>
<td>3314-B3G</td>
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<td>4GB</td>
<td>Intel HD Graphics 2500</td>
<td>DP-to-DVI-D</td>
<td>11b/g/n Media None</td>
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<td>Non Pro 64 09/04/12</td>
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<td></td>
<td></td>
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</tr>
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</table>

**Positioning**

- **Premium All-In-One PC for the enterprise**
- **Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 3MB cache), integrated Intel HD Graphics 2500**
- **Turbo Boost 2.0 (3.7GHz), integrated Intel HD Graphics 2500, Virtualization Technology**
- **Intel Core i3-3220 Processor (2 cores / 4 threads, 3.3GHz, 8MB cache), integrated Intel HD Graphics 2500, Virtualization Technology**

**Graphics**

- **Intel HD Graphics 2500 / 4000 in processor, uses main memory, DirectX 11**, external digital monitor support via DisplayPort, supports dual independent display; Maximum resolution: 2560 x 1600 (DisplayPort) @ 60Hz
- **Display:** 23.0\" (589.0mm) Full HD 1080p (1920x1080) TFT color, IPS wide viewing angle, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, work as standalone monitor via DisplayPort-in connector

**Light sensor**

- None

**Multi-touch**

- Multi-touch, 2-point support

**Camera**

- Camera on top of screen, 2.0-megapixel, fixed focus, integrated digital MIC array with stereo, LED indicator, physical switch on/off

**Controls**

- Front: Microphone mute, speaker mute, monitor mode, OSD menu, and power button
- Side: Volume up and down buttons

**Disk**

- 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), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

**Media reader**

- 11-in-1 Single Slot SD media reader

**Chipset**

- Intel G77 Express Chipset

**Rear ports**

- Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

**Side ports**

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

**ExpressCard**

- None

**mSATA**

- One mSATA slot

**PCle Mini Card**

- One PCI Express Mini Card slot

**PCle WLAN**

- 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 Intel 2230 Wi-Fi + Bluetooth combo adapter

**Ethernet**

- One gigabit ethernet port, Intel 82579LM, Wake on LAN

**Audio support**

- High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2), Dolby\* Advanced Audio\* v2 certified, Microsoft Lync\* certified

**Intel AMT**

- Intel Active Management Technology 8.0 (Intel AMT 8.0)

**Security chip**

- Trusted Platform Module (TPM 1.2-compliant)

**Keyboard**

- Some: Preferred Pro USB Keyboard (USB connector), 104-key, black, Lenovo\* logo
- Some: Ultrasmall Plus Wireless Keyboard (2.4GHz via USB receiver), black
- Some: Enhanced Optical USB Mouse, black, Lenovo logo
- Some: Ultrasmall Plus Wireless Mouse (2.4GHz via USB receiver), black
- Power supply: 150 watts, autosensing, 85% PSU

**Machine**

- All:
  - Business black color
  - Touchless back cover, stand removal
  - Touchless disk, optical drive, memory removal
  - Support VESA mount (100mm)

**Model(s) with 23\" multi-touch, Frame stand:**

- 22.4\" W X 3.9\" D X 17.6\" H,
- 568mm W X 100mm D X 447mm H (including stand)
- 23.9 lb (10.9 kg) in maximum configuration

**Limited Warranty**

- 3-year limited warranty

---

**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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

---

**Preloaded operating system**

- Genuine Windows\* 7 Professional 64

**Preloaded applications (only some listed)**

- Rescue and Recovery\* PRO
- Password Manager
- Business-in-a-Box

**Preloaded applications (only some listed)**

- ThinkVantage\* Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton\* Internet Security
- (30 days of virus definitions)
- Adobe\* Reader\*
- 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)

---

**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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

---

**Preloaded operating system**

- Genuine Windows\* 7 Professional 64

**Preloaded applications (only some listed)**

- Rescue and Recovery\* PRO
- Password Manager
- Business-in-a-Box

**Preloaded applications (only some listed)**

- ThinkVantage\* Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton\* Internet Security
- (30 days of virus definitions)
- Adobe\* Reader\*
- 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)

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**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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

---

**Preloaded operating system**

- Genuine Windows\* 7 Professional 64

**Preloaded applications (only some listed)**

- Rescue and Recovery\* PRO
- Password Manager
- Business-in-a-Box

**Preloaded applications (only some listed)**

- ThinkVantage\* Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton\* Internet Security
- (30 days of virus definitions)
- Adobe\* Reader\*
- 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)

---

**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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)

---

**Preloaded operating system**

- Genuine Windows\* 7 Professional 64

**Preloaded applications (only some listed)**

- Rescue and Recovery\* PRO
- Password Manager
- Business-in-a-Box

**Preloaded applications (only some listed)**

- ThinkVantage\* Product Recovery
- ThinkVantage System Update
- ThinkVantage Communication Utility
- ThinkVantage Automatic Lock Utility
- ThinkVantage Power Manager
- View Management Utility
- Microsoft Touch Pack
- Lenovo Solution Center
- Lenovo Message Center Plus
- RapidBoot HDD Accelerator
- Lenovo SimpleTap
- Norton\* Internet Security
- (30 days of virus definitions)
- Adobe\* Reader\*
- 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)

---

**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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- Chassis intrusion switch on selected model(s)
## ThinkCentre M92z (3329) - 23" Multi-touch (GMP)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCIe Mini Card</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 Global (GMP)</th>
<th>Win7 preload (mm/dd/yy)</th>
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<tr>
<td>3329-A4G</td>
<td>i7-3770S</td>
<td>4GBx1</td>
<td>2.0M</td>
<td>500G</td>
<td>Media</td>
<td>None</td>
<td>Switch</td>
<td>Frame</td>
<td>USB</td>
<td>vPro</td>
<td>G P</td>
<td>06/05/12</td>
</tr>
</tbody>
</table>

- **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**

### Positioning

**Premium All-In-One PC for the enterprise**

### Processor

**Intel® Core™ i7-3770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache),** Turbo Boost 2.0 (3.9GHz), integrated Intel HD 4000 Graphics, integrated 1600MHz dual-channel DDR3 memory controller, Virtualization Technology Processor in LGA1155 socket

### Memory

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

### Graphics

- Intel HD Graphics 4000 in processor, uses main memory, DirectX 11, external digital monitor support via DisplayPort®, supports dual independent display
- **Maximum resolution:** 2560x1600 (DisplayPort) @60Hz

### Audio support

High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2),

### Processor

**Positioning**

**Premium All-In-One PC for the enterprise**

### Ethernet

- One gigabit ethernet port, Intel 82579LM, Wake on LAN

### Controls

- **Front:** Microphone mute, speaker mute, monitor mode, OSD menu, and power button
- **Side:** Volume up and down buttons

### Disk

- 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), one SATA 3.0Gb/s connector and one SATA 6.0Gb/s connector on planar

### Media reader

11-in-1 Single Slot SD media reader

### Chipset

**Intel Q77 Express Chipset**

### Rear ports

- Four USB 2.0, ethernet (RJ-45), DisplayPort-out, DisplayPort-in, optional serial (9-pin), optional keyboard (PS/2), optional mouse (PS/2)

### Side ports

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

### ExpressCard

None

### mSATA

- One mSATA slot

### PCIe Mini Card

- One PCI Express® Mini Card slot

### PCIe 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 2230 Wi-Fi + Bluetooth combo adapter

### Ethernet

- One gigabit ethernet port, Intel 82579LM, Wake on LAN

### Audio support

- High Definition (HD) Audio, Realtek ALC272 / Two internal stereo speakers (3watt x 2),
- Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

### Intel AMT

- Intel Active Management Technology 8.0 (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
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- USB port disablement
- **Chassis intrusion switch on selected model(s)**

### Machine

- Model(s) with 23” multi-touch, Frame stand:
  - Business black color
  - 22.4” W X 3.9” D X 17.6” H
  - 568mm W X 100mm D X 447mm H (including stand)
  - 23.9 lb (10.9 kg) in maximum configuration
  - 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

Supports ThinkVantage Technologies

See footnotes for important warranty information

WE model announced June 5, 2012

©Lenovo

(M-TTRL1-3) February 2013
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

### Product Specifications Reference (PSREF)

#### Graphics
- **4400/4600 Intel HD Graphics**
  - Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
  - Intel Core i5-4430S Processor
  - 2.7GHz, 6MB cache
  - 4 cores / 4 threads

#### Memory
- **16GB max**, PC3-12800 1600MHz DDR3
- Support for Intel® Core™ i3-4150 Processor
  - 2.9GHz, 6MB cache
  - 2 cores / 4 threads

#### Processor
- **Premium All-In-One PC for the enterprise**
  - Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller
  - Intel Core i5-4590S Processor
  - 3.6GHz, Intel HD Graphics 4600, 1600MHz DDR3 memory controller
  - Intel Core i5-4570S Processor
  - 3.4GHz, Intel HD Graphics 4600, 1600MHz DDR3 memory controller

#### Display
- **23.8" (594.2mm) Full HD 1080p (1920x1080)** TFT color, IPS panel, wide viewing angle
- **Some:** LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare, work as stand-alone monitor via VGA-in connector

#### Light sensor
- Optional ambient light sensor

#### 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), optional keyboard (PS/2), optional mouse (PS/2), some: USB port disablement

#### Optical Drive
- Two SATA cables (each 1-drop to device), two SATA 6.0Gb/s connectors on planar

#### Rear ports
- Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), some: DisplayPort, DisplayPort 1.2

#### Chipset
- Intel® Express Chipset

#### Rear ports
- Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), some: USB port disablement

### 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 disambiguation

### Limited Warranty
- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

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See footnotes for important warranty information ©Lenovo (G-MPHS1-12) July 2014
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<th>Type-model</th>
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<th>PClE 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>Keyboard/ Mouse</th>
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<th>GMP (P)</th>
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Positioning

**Premium All-In-One PC for the enterprise**

**Processor**

Intel® Core™ i5-4570S Processor (4 cores / 4 threads, 2.6GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Intel® Core™ i5-4590S Processor (4 cores / 4 threads, 2.6GHz, 3MB cache), Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

Implementation

Processor in LGA1150 socket

Memory

16GB max, 4x2.0Gbps SODIMM, 204-pin SO-DIMM modules (notesbook)

Graphics

Intel HD Graphics 4600 in processor, uses main memory, Direct® X® 11, external digital monitor support via DisplayPort™, supports dual independent display;

Display

Maximum resolution: 3840x2160 (DisplayPort)@60Hz

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), 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

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® 8th-Gen Express Chipset

Rear ports

Four USB 3.0, ethernet (RJ-45), DisplayPort-out, VGA-in, optional serial (9-pin), optional keyboard (PS/2), and 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 PCI Express™ Mini Card slot

PCLe WLAN

One PCI Express™ Mini Card

Ethernet

Intel® 82583 USB 3.0 and 2.0 controller, 10/100/1000 Gigabit Ethernet controller

Audio support

Intel® 9201C RJ-45 controller, Realtek® ALC225, two internal stereo speakers (3Watt x 2)

Intel AMT

Integrated (Intel AMT 9.0)

Security chip

Intel® vPro Technology

Security

Security chip (see information on left) Security slot (see Microsoft Corporation)

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)

- ThinkVantage® Product Recovery
- ThinkVantage System Update
- ThinkVantage® System Update 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®
- Cyberlink PowerDVD (DVD±RW, DVD±R)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote
- Intel AppUp
- Lenovo Solutions for Small Business
- Nitro Pro

Limited Warranty

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

©Lenovo (G-MPHS1-10) June 2014
ThinkCentre M93z (10AE) - GMP (Windows 8/8.1)

Product Specifications Reference (PSREF)

Note: models listed above might not be available in all WE countries

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

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
- 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 (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
TCO Certified Edge
TUV Green Mark
ULE Gold
EUP 2013
Cisco EnergyWise compatible
GREENGUARD® certified
RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information
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<th>Type-model</th>
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<th>Graphics</th>
<th>Mini Card</th>
<th>Media reader</th>
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<th>Stand type</th>
<th>Keyboard/ vPro</th>
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Country Code**:++* : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- Small and medium business (SMB) model(s), part of the Western Europe TopSeller™ Program
- 3-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
- 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

- Supports ThinkVantage Technologies

See footnotes for important warranty information

©Lenovo

(G-MPHS1-5) July 2014
## ThinkCentre M93z (10AD) - Multi-touch (TopSeller) - Win 8/8.1

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>PCle Mini Card</th>
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### Positioning
- **Premium All-In-One PC for the enterprise**
- **3-year limited warranty**

### 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
- **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

### Implementation
- Processor in LGA1150 socket

### Memory
- 16GB max,
- Processor Memory:
  - Intel Core i5-4590S Processor
    - Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
  - Intel Core i5-4590S Processor
    - Turbo Boost 2.0 (3.6GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

### Graphics
- Memory 16GB max,
- **Graphics Implementation Processor in LGA1150 socket**
- Audio support
  - High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2),
  - Intel Q87 Express Chipset

### Disk
- **Maximum resolution:** 23.0”
- **Display Machine:**
  - 22.4” X 3.7” X 17.6”; 568mm X 93.1mm X 447.3 mm
  - Supports 10-point multi-touch
  - LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, anti-glare,
  - Maximum resolution:

### Chassis
- **Toolless disk, optical drive, memory removal**
- **Adjustable stand (between 10° and 45°)**

### Limited Warranty
- **3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available**

---

**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**
  - **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
  - 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)
  - Norton™ Studio
  - Pokki (for Windows 8.1 only)
  - Hightail (for Windows 8.1 only)

**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
  - 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
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<td>10AC0033++</td>
<td>i5-4590S</td>
<td>4GBx1</td>
<td>2.0M</td>
<td>HD 4600 7260 b/g/ac</td>
<td>Media</td>
<td>Sensor None</td>
<td>Switch Monitor</td>
<td></td>
<td></td>
<td></td>
<td>USB vPro G P</td>
<td>Win7 P64 Pro64</td>
<td>07/08/14</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Positioning

**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), Intel HD 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**
- **Intel Core i7-4770S Processor (4 cores / 8 threads, 3.8GHz, 8MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller**

Processor in LGA1150 socket

### Graphics

- **ThinkCentre M93z (10AC) - Multi-touch (GMP)**
- **PC3-12800 1600MHz DDR3**
- **Implementation Processor in LGA1150 socket**

### Audio support

- High Definition (HD) Audio, Realtek ALC283 / two internal stereo speakers (3watt x 2),

### Processor

- **Premium All-In-One PC for the enterprise**
- **Positioning**
  - **Ethernet** One gigabit ethernet port, Intel I217-LM (Clarkville), Wake on LAN
  - **PCIe Mini Card** One PCI Express
  - **mSATA** One mSATA slot
  - **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 slot
  - **PCle Mini Card** One PCI Express™ Mini Card slot
  - **PCle WLAN** One PCI Express™ Mini Card slot

### 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)

### BIOS

- **Support VESA mount (100mm)**

### Limited Warranty

- **3-years**, **limited onsite service**, **8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available**

---

See footnotes for important warranty information

©Lenovo

(G-MPHS1-3) July 2014
| Type-model | Processor | Memory | Graphics | PCIe Mini Card | Media reader | Light sensor | Serial & PS/2 port | Chassis intrusion switch | Stand type | Key-board/ Intel Mouse | 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 i5-4590S Processor (4 cores / 4 threads, 3.0GHz, 6MB cache), Turbo Boost 2.0 (3.7GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller | 10A001F++ 1Gx4 2.0M 500G 7200 HD 4600 N2230 Media Sensor None Switch Monitor USB vPro G P Win8 Pro64 07/09/13 | 10A002D++ 1Gx4 2.0M 500G 7200 HD 4600 N7260 Media Sensor None Switch Monitor USB vPro G P Win8.1 Pro64 02/25/14 | 10A0032++ 1Gx4 2.0M 500G 7200 HD 4600 N7260 Media Sensor None Switch Monitor USB vPro G P Win8.1 Pro64 06/10/14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10A001F++ | i5-4570S | 4GBx1 | 2.0M | HD 4600 | N2230 | Media | Sensor None | Switch Monitor | USB | vPro | G | P | Win8 Pro64 | 07/09/13 |
| 10A002D++ | i5-4570S | 4GBx1 | 2.0M | HD 4600 | N7260 | Media | Sensor None | Switch Monitor | USB | vPro | G | P | Win8.1 Pro64 | 02/25/14 |
| 10A0032++ | i5-4590S | 4GBx1 | 2.0M | HD 4600 | N7260 | Media | Sensor None | Switch Monitor | USB | vPro | G | P | Win8.1 Pro64 | 06/10/14 |

Country Code**++**: AT (Austria), FR (France), GB (Germany/English OS), GE (Germany/German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

**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
  - 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
  - Lenovo Solutions for Small Business
  - Nitro Pro
  - 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)

- EPEAT™ Gold rating
- ENERGY STAR® 6.2-compliant
- TCO Certified Edge
- TUV Green Mark
- ULE Gold
- EuP 2013
- Cisco EnergyWise compatible
- GREENGUARD® certified
- RoHS-compliant
- Supports ThinkVantage Technologies
ThinkCentre Edge 62z

Lenovo ThinkCentre Edge 62z with Frame Stand

Handle

Lenovo ThinkCentre Edge 62z with Frame Stand

Lenovo ThinkCentre Edge 62z with Frame Stand

Lenovo ThinkCentre Edge 62z with Frame Stand
<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Camera</th>
<th>SATA</th>
<th>Optical</th>
<th>Graphics</th>
<th>Mini Card</th>
<th>LAN</th>
<th>Stand</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date</th>
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</thead>
<tbody>
<tr>
<td>2117-GDG</td>
<td>G2030</td>
<td>4GBx1 1600MHz</td>
<td>None</td>
<td>500G 7200</td>
<td>DVD±RW</td>
<td>Intel HD</td>
<td>Intel 105</td>
<td>Frame</td>
<td>None</td>
<td>Win7 Pro64</td>
<td>12/24/13</td>
<td></td>
</tr>
<tr>
<td>2117-GEG</td>
<td>G2030</td>
<td>4GBx1 1600MHz</td>
<td>None</td>
<td>500G 7200</td>
<td>DVD±RW</td>
<td>Intel HD</td>
<td>Intel 105</td>
<td>Frame</td>
<td>None</td>
<td>Win7 Pro64 (DG)</td>
<td>12/24/13</td>
<td></td>
</tr>
<tr>
<td>2117-GFG</td>
<td>i3-3240</td>
<td>4GBx1 1600MHz</td>
<td>720p</td>
<td>500G 7200</td>
<td>DVD±RW</td>
<td>HD 2500</td>
<td>Intel 105</td>
<td>Frame</td>
<td>None</td>
<td>Win7 Pro64</td>
<td>12/24/13</td>
<td></td>
</tr>
<tr>
<td>2117-GGG</td>
<td>i3-3240</td>
<td>4GBx1 1600MHz</td>
<td>720p</td>
<td>500G 7200</td>
<td>DVD±RW</td>
<td>HD 2500</td>
<td>Intel 105</td>
<td>Frame</td>
<td>None</td>
<td>Win7 Pro64 (DG)</td>
<td>12/24/13</td>
<td></td>
</tr>
</tbody>
</table>

**ThinkCentre Edge 62z (2117) - TopSeller**

- **Product Specifications Reference (PSREF)**

**Positioning**
- **Processor**
  - Intel® Pentium® G2030 Processor (2 cores / 2 threads, 3.0GHz, 3MB cache), integrated 1333MHz dual-channel DDR3 memory controller, Virtualization Technology
  - Intel Core™ i3-3240 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller

<table>
<thead>
<tr>
<th>Graphics</th>
<th>Display</th>
<th>Memory</th>
<th>Implement</th>
<th>Memory</th>
<th>Memory</th>
<th>Control</th>
<th>Disk</th>
<th>Optical</th>
<th>Media reader</th>
<th>Chipset</th>
<th>Rear ports</th>
<th>Side ports</th>
<th>PCI Express</th>
<th>WLAN</th>
<th>Security chip</th>
<th>Keyboard</th>
<th>Mouse</th>
<th>Power supply</th>
<th>Machine</th>
<th>Machine</th>
</tr>
</thead>
</table>
| Intel HD Graphics or Intel HD Graphics 2500 | 18.5" (470mm) HD (1366x768) TFT color, CCFL backlight, 200 nits, 16:9 aspect ratio, 600:1 dynamic contrast ratio | 8GB max, PC3-12800 1600MHz DDR3, one 204-pin SODIMM sockets (notebook) | System automatically clocks down for processors with 1333MHz DDR3 memory controller | 120 watts, autosensing, 87% PSU | 120 watts, autosensing, 87% PSU | Front facing button for power on/off, side buttons for brightness up and brightness down | Hard Disk Drive / SATA 3.0Gb/s, 2.5" Wide | DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable | None | Intel H61 Express Chipset | Four USB 2.0, ethernet (RJ-45), serial (9-pin) | Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm) | One PCI Express® Mini Card slot | 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® wireless-N 105, 1x1 | None | High Definition (HD) Audio, Realtek ALC269Q | Lenovo® Slim New F5 USB Keyboard (USB connector), black | Enhanced Optical USB Mouse, black, Lenovo logo | 120 watts, autosensing, 87% PSU | Model(s) with Frame stand:  
- Business black color  
- 18.5" W X 2.3" D X 14.5" H  
- 469.7mm W X 59.5mm 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) | 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

**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
- 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)

**Limited Warranty**
- 1-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available.

**See footnotes for important warranty information**

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(G-TAYN1-1) January 2014

WE models announced December 24, 2013
### ThinkCentre E63z Platform Specifications

#### 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

### Optical 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

### Display
- **Intel HD Graphics or Intel HD Graphics 4400 in processor, uses main memory.**
- **Maximum resolution:** 1600x900@60Hz (panel); 2560x1440@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

### Graphics
- Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch

### Disk
- **Optional 7-in-1 media card reader (Core i3 models only)

### Audio
- **Intel HD Sound System**
- **Realtek ALC233 (Pentium models) or Conexant HD Audio**

### 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

### ExpressCard
- **One PCI Express Mini Card slot (half size, for WLAN)

### Audio support
- **High Definition (HD) Audio, Realtek ALC233 (Pentium models) or Conexant CX20575 (Core i3 models) / internal speakers (3watts x 2)

### WLAN
- **Some:** 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8723BE, Wi-Fi + Bluetooth combo adapter, 1x1
- **Some:** 11b/g/n wireless, PCIe Half Mini Card, Realtek RTL8821EE, Wi-Fi + Bluetooth combo adapter, 2x2

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

### vPro & AMT 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

### Mechanical
- **Business black color
- **Support VESA mount (100mm)

### Dimensions (WxDxH)
<table>
<thead>
<tr>
<th>Weight (Maximum)</th>
<th>Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.82 lb (4 kg)</td>
<td>Tilt: 10° to 60° back</td>
</tr>
<tr>
<td>10.58 lb (4.8 kg)</td>
<td>Tilt: 10° to 60° back</td>
</tr>
</tbody>
</table>

### Power supply
- **65 watts external adapter, autosensing, 88% PSU, 100-240V (50-60Hz)

### Keyboard
- **Some:** Preferred Pro USB Keyboard (USB connector), Lenovo logo

### Mouse
- **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

### Preload
- **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 |
| Lenovo SHAREit |
| BlueTooth Security Lock |
| 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®
- **Nitro Pro
- **AccuWeather
- **Norton™ Studio
- **Poki
- **Hightail

### Environment
- **EPEAT™ Gold (For Windows models only); ENERGY STAR® 6.0 (For Windows models only); GREENGUARD®, RoHS-compliant; Cisco EnergyWise compatible; ErP Lot 3

See footnotes for more detailed information © Lenovo (G-TWIN1-Spec) December 2014
### ThinkCentre E63z (10D4) - 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>
<th>Base Warranty (year)</th>
<th>Global Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10D4005P++ 19.5&quot; HD+</td>
<td>None</td>
<td>None Pentium J2900</td>
<td>Intel HD</td>
<td>None</td>
<td>None</td>
<td>720p</td>
<td>4GBx1</td>
<td>500GB</td>
<td>5400</td>
<td>RTL8723BE</td>
<td>Frame</td>
<td>USB (slim)</td>
<td>Win7 P64 DG</td>
<td>1-onsite</td>
<td>No</td>
</tr>
<tr>
<td>10D4005Q++ 19.5&quot; HD+</td>
<td>None</td>
<td>None Pentium J2900</td>
<td>Intel HD</td>
<td>None</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>Win 8.1 with Bing</td>
<td>1-onsite</td>
<td>No</td>
</tr>
<tr>
<td>10D4005H++ 19.5&quot; HD+</td>
<td>None</td>
<td>None Pentium J2900</td>
<td>Intel HD</td>
<td>None</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>Win 7 P64 DG</td>
<td>1-onsite</td>
<td>No</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

#### Optical Drive

- 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 in processor, uses main system 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

- Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

#### 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

#### Preload

- Some: Windows 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 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
<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>Global</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10E00025++</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</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>11/14</td>
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<tr>
<td>ThinkCentre E63z (10E0) - TopSeller</td>
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</tbody>
</table>

* For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet

**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>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>3MB</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 Media reader**

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

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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(G-TWIN1-2) December 2014
### ThinkCentre E63z (10E1)

**Product Specifications Reference (PSREF)**

<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>10E10003++</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</td>
<td>None</td>
<td>RTL723BE</td>
<td>Frame</td>
<td>USB (sli m)</td>
<td></td>
<td>3-onsite</td>
<td>No</td>
<td>11/14</td>
</tr>
</tbody>
</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>Max Burst Frequency</th>
<th>Cache</th>
<th>Memory Types</th>
<th>Integrated Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium J2900</td>
<td>2 / 2</td>
<td>2.41 GHz</td>
<td>2.66 GHz</td>
<td>2MB</td>
<td>DDR3L-1333</td>
<td>Intel HD</td>
</tr>
<tr>
<td>Core i3-4005U</td>
<td>2 / 2</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 1 TB (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 3.0Gb/s support, integrated in processor
- **Core i3 models:** Serial ATA, Sata 6.0Gb/s support, integrated in processor

### SATA controller

- **Pentium models:** 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)
- **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: +/- 60°), frameless for touch models, frame for non-touch models

### 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: +/- 60°), frameless for touch models, frame for non-touch models

### Multi-touch Camera

- **Some:** 10-20 point touch

### Controls

- **Some:** 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

### 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

- **Some:** 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

### 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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(G-TWIN1-3) December 2014
## ThinkCentre E63z (10E2) - Multi-touch (TopSeller)

### Product Specifications Reference (PSREF)

<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>10E2001N++</td>
<td>19.5&quot; HD+ Touch</td>
<td>i3-4005U</td>
<td>Intel HD400</td>
<td>7-in-1</td>
<td>720p</td>
<td>4GBx1</td>
<td>500GB</td>
<td>7200</td>
<td>None</td>
<td>RTL8723BE</td>
<td>Frame</td>
<td>USB (slim)</td>
<td>Win7 P64 DG</td>
<td>Win8.1</td>
<td>1-onsite</td>
<td>No</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

<table>
<thead>
<tr>
<th>Processor</th>
<th>Cores / Threads</th>
<th>Clock Speed</th>
<th>Max Burst Frequency</th>
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</tr>
<tr>
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<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
None

### Optical

SATA controller

<table>
<thead>
<tr>
<th>Media reader</th>
<th>SATA controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentium models: Serial ATA, SATA 6.0Gb/s support, integrated in processor</td>
<td></td>
</tr>
<tr>
<td>Core i3 models: Serial ATA, SATA 6.0Gb/s support, integrated in processor</td>
<td></td>
</tr>
<tr>
<td>Optional 7-in-1 media card reader (Core i3 models only)</td>
<td></td>
</tr>
</tbody>
</table>

### 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

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

### 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 (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

### Bluetooth

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Some: Intel Dual Band Wireless-AC 2760, Wi-Fi + BT combo

### Keyboard

Some: Preferred Pro USB Keyboard (USB connector), Lenovo logo
Some: Lenovo Slim USB Keyboard (USB connector), black, Lenovo logo
Some: Enhanced Optical USB Mouse, black, Lenovo logo
Some: Ultrasonic 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
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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## ThinkCentre E63z (10E3) - 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>Global</th>
<th>Ann Date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10E30005++</td>
<td>19.5&quot; HD+ Touch</td>
<td>i3-4005U</td>
<td>HD 4400</td>
<td>7-in-1</td>
<td>720p</td>
<td>4GBx1</td>
<td>500GB SSHD</td>
<td>None</td>
<td>RTL8723BE</td>
<td>Frame</td>
<td>USB (slim)</td>
<td>Windows 8.1 Pro64</td>
<td>3-onsite</td>
<td>No</td>
<td>11/14</td>
<td></td>
</tr>
</tbody>
</table>

### Processor
- **Intel® Pentium® or 4th Generation Intel Core™ i3 Processor**
  - Core i3-4005U: 2 / 4 1.7 Ghz
  - Core i3 models: 16GB max / DDR3 Low Voltage, DDR3L-1600*, non-parity, two 204-pin SO-DIMM sockets

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

### Display
- **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:** Optional Projected Capacitive Touch (PCT) technology, supports 10-point touch
- **Camera Controls:** Some: 720p camera, 1.0-megapixel, fixed focus, digital microphone, LED indicator

### 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
- Security slot (in rear for attachment of optional Kensington® MicroSaver® cable; Kensington lock also locks chassis)
- 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:** Enhanced Optical USB Mouse, black, Lenovo logo
- **Some:** Ultrasonic Plus Wireless Mouse (2.4GHz via USB receiver), black
- **Some:** Ultrasonic Plus Wireless Keyboard (2.4GHz via USB receiver), black

### Mechanical
- Business black color
- 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
- **Some:** Windows 8.1 with Bing 64-bit

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

*For detailed platform specifications, please see ThinkCentre E63z Platform Specifications sheet*
ThinkCentre E73 SFF (10AU) - TopSeller

Product Specifications Reference (PSREF)

Type-model Slot x bay SATAv disk Memory SATA optical PClé WLAN Media reader Graphics Parallel port Serial port Floor stand Keyboard / mouse Global Preload Ann date (mm/dd/yy)
10AU003J++ 3x4 17-4770S 4GBx1 4GBx1 500GB 7200 DVD+-RW None Media Intel HD Parallel Serial None USB(slim) None Win7 Pro64 (DG) 10/22/13
10AU003G++ 3x4 G3420 4GBx1 4GBx1 500GB 7200 DVD+-RW None Media Intel HD Parallel Serial None USB(slim) None Win7 Pro64 (DG) 10/22/13
10AU003F++ 3x4 i3-4130 4GBx1 4GBx1 500GB 7200 DVD+-RW None Media HD 4400 Parallel Serial None USB(slim) None Win7 Pro64 (DG) 10/22/13
10AU003D++ 3x4 i5-4430S 4GBx1 4GBx1 500GB 7200 DVD+-RW None Media Intel HD 4600 Parallel Serial None USB(slim) None Win7 Pro64 (DG) 10/22/13
10AU003B++ 3x4 i7-4770S 4GBx1 4GBx1 1TB 7200 DVD+-RW None Media Intel HD 4600 Parallel Serial None USB(slim) None Win7 Pro64 (DG) 10/22/13

Note: models listed above might not be available in all WE countries

Country Code*:++ : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Positioning
Processor
Stylish design, reliability, and productivity for small/medium businesses

Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.2GHz, 3MB cache), Intel HD Graphics, 1333MHz 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
- 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

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

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

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

Security
One lock to secure both cover and entire system to fixed object:
- Padlock loop (in rear for optional Kensington® MicroSaver® cable)
- Security slot (in rear for optional)

Bluetooth
None

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

Previews: Lenovo™ Slim USB Keyboard (USB connector), black, Lenovo logo

Optical drive
Enhanced Optical USB Mouse, black, Lenovo logo

Power Stand
Optional system floor stand for vertical orientation

Power supply
180 watts, universal, autosensing

Limited Warranty
1 years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

Previews: Lenovo® ThinkVantage Technologies

GREENGUARD® certified
RoHS-compliant

See footnotes for important warranty information

WE model(s) announced October 22, 2013

@Lenovo

(G-TLS1S-1) October 2013
ThinkCentre E73 SFF (10AU) - TopSeller - II

Product Specifications Reference (PSREF)

Type-model | Slot x bay | Processor | Memory | SATA disk | SATA optical | PCle WLAN | Media reader | Graphics | Parallel port | Serial port | Floor stand | Keyboard / mouse | Global | Preload | Ann date (mm/dd/yy)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
10AU003K++ | 3x4 | i3-4130 | 4GBx1 | 500GB 7200 DVD±RW | None | Media HD 4400 Parallel | Serial | None | USB(slim) | None | Win8 64 | 10/22/13
10AU003L++ | 3x4 | G3220 | 4GBx1 | 500GB 7200 DVD±RW | None | Media Intel HD | Parallel | Serial | None | USB(slim) | None | Win8 64 | 10/22/13

Country Code++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

Positioning

Stylish design, reliability, and productivity for small/medium businesses

Processor

Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.00GHz, 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

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)

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

* Please see the detailed configuration on top

Rear audio ports

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

PCle WLAN

None

Audio

High Definition (HD) Audio, Realtek® ALC662 codec

IEEE 1394

None

Ethernet

Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

Security

- One look 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

Machine

- Glossy black bezel; metal case
- 13.2" W X 15.0" D X 3.98" H
- 336mm W X 382mm D X 101mm H
- 13.2 lb (6.0 kg) in maximum configuration
- Highlighted optical drive button for easy access

Bay

Bay 1: 5.25", 1.6" 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: 1.5", 0.35" high, access, opt trial reader

"bay only available on models with SSD/reader installed

Slot

Slot 1: Low Profile, PCI Express® 3.0 x16 (40w max)

Slot 2: Low Profile, PCI Express® 3.0 x1

Slot 3: Low Profile, PCI Express® 2.0 x1

Limited Warranty

1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

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WE model(s) announced October 22, 2013

(G-TLS1S-2) October 2013

Preloaded operating system

Windows® 8 64-bit

Ready to install applications (only some listed)

- Password Manager

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™ Internet Security
- -30 days of virus definitions
- -Evernote®
- -Skype™
- -Cyberlink PowerDVD (DVD±RW, DVD)
- -Cyberlink PowerProducer (DVD±RW)
- -Cyberlink PowerProducer (DVD±RW)
- -Nitro Pro
- -AccuWeather
- -Norton Studio
- -Intel AppUp™

RoHS-compliant

GREENGUARD certified

RoHS-compliant

Supports ThinkVantage Technologies
ThinkCentre E73 SFF (10AU) - TopSeller - III

Product Specifications Reference (PSREF)

Type-model | Slot x bay | Processor | Memory* | SATA disk | GB | rpm | SATA optical | PCIe WLAN | Media reader | Graphics | Serial / Parallel port | Floor stand | Keyboard / mouse | Global | Preload | Ann date (mm/dd/yy)
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
10AU0075++ | 3x4 | i5-4440S | 8GBx1 | 1TB | DVD±RW | None | Media HD | 4600 | S | P | None | USB(slim) | None | Win7 P64 DG | Win8.1 | 12/24/13
10AU008L++ | 3x4 | i7-4770S | 8GBx1 | 1TB | DVD±RW | None | Media HD | 4600 | S | P | None | USB(slim) | None | Win7 P64 DG | Win8.1 | 03/18/14

Country Code*++ : AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), NL (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

Positioning
Stylish design, reliability, and productivity for small/medium businesses

Processor
Intel® Core™ i5-4440S Processor (4 cores / 4 threads, 2.8GHz, 6MB cache), Turbo Boost 2.0 (3.9GHz), Intel HD Graphics 4400, 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, UDIMM, PC3-12800 1600MHz DDR3*, two 240-pin DIMM sockets

Graphics
Intel 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)

DP dongle
None

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

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, optional serial (9-pin)*, optional parallel (25-pin)*, ethernet (RJ-45), VGA DB-15, DisplayPort

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

PCle WLAN
None

Bluetooth
None

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

Speaker
Internal speaker for business audio

IEEE 1394
None

Ethernet
Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

Manageability
None

Modern
None

Security chip
None

Keyboard
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

Power supply
180 watts, universal, autosensing

Machine
- Glossy black bezel; metal case
- 13.2" W X 15.0" D X 3.98" H
- 336mm W X 382mm D X 101mm H
- 13.2lb (6.0 kg) in maximum configuration
- Highlighted optical drive button for easy access

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”, NA, no access, opt 2nd SSD*
Bay 4: 4.5", 35” high, access, optical reader*
*bay only available on models with SSD/reader installed

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 x1

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
- 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

Limited Warranty** 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

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

GREENGUARD™ certified
RoHS-compliant

Supports ThinkVantage Technologies

See footnotes for important warranty information

WE model(s) announced December 24, 2013 or March 18, 2014
ThinkCentre E73 SFF (10AW) - ES 6.0 (TopSeller)

<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>PCle LAN</th>
<th>Media reader</th>
<th>Graphics</th>
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<th>Serial port</th>
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<th>Keyboard / mouse</th>
<th>Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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Country Code**++**:
- AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

Positioning
- Stylish design, reliability, and productivity for small/medium businesses

Processor
- Intel® Pentium® G3220 Processor (2 cores / 2 threads, 3.0GHz, 3MB 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™ i3-4130 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

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: 1920x1200 (VGA); 1280x1024 (SVGA); 1024x768 (XGA); supports dual independent display; on two VGA connectors

DP dongle
- None

Disk
- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- 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, optional serial (9-pin)*, optional parallel (25-pin)*, ethernet (RJ-45), VGA DB-15, DisplayPort*

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

PCle LAN
- None

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

Speaker
- Internal speaker for business audio

IEEE 1394
- None

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

Manageability
- None

Modem
- None

Security chip
- None

Keyboard
- 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

Power supply
- 240 watts, universal, autosensing, 85% PSU

Machine
- Glossy black bezel; metal case
- 13.2" W X 15.0" D X 3.98" H
- 336mm W X 382mm D X 101mm H
- 13.2 lb (6.0 kg) in maximum configuration
- Highlighted optical drive button for easy access
- Bay 1: 5.25", 1.6" high, access, std optical
- Bay 2: 3.5", 1" high, access, std disk
- Bay 3: 2.5", N/A, no access, opt 2nd SSD
- Bay 4: 1.5", 2" high, access, cpltn reader*
- Bay only available on models with SSD/reader installed

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 x1

Limited Warranty
- 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

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 disabling

Preloaded operating system
- Some: Windows® 8.1 64-bit
- Some: Windows 8.1 with Bing 64-bit

Preloaded applications (only some listed)
- Password Manager
- ThinkVantage® System Update
- Lenovo® Support
- Lenovo Companion
- Lenovo Solution Center
- Desktop Power Manager
- PC Device Stage
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security
  - (30 days of virus definitions)
- Evernote®
- Skype™
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Nitro Pro
- AccuWeather
- Norton Studio
- Pokki
- HighTail

See footnotes for important warranty information

©Lenovo (G-TLS1S-4) October 2014
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>PCle WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Parallel port</th>
<th>Serial port</th>
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<th>Keyboard / mouse</th>
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<td>USB(slim)</td>
<td>None</td>
<td>Win7 P64 DG Win8.1</td>
<td>04/22/14</td>
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</tbody>
</table>

**Positioning**

- **Stylish design**, reliability and productivity for small/medium businesses

** 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, 4MB 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 i5-4440S Processor (4 cores / 4 threads, 2.8GHz, 6MB cache)**, Turbo Boost 2.0 (3.5GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Intel Core i5-4460S Processor (4 cores / 4 threads, 3.2GHz, 6MB cache)**, Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Intel Core i7-4770S Processor (4 cores / 6 threads, 3.1GHz, 8MB cache)**, Turbo Boost 2.0 (3.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- **Intel Core i7-4770S Processor (4 cores / 6 threads, 3.5GHz, 8MB cache)**, Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Memory**

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

**Audio**

- High Definition (HD) Audio, Realtek® AC972 codec

**Speaker**

- Internal speaker for business audio

**IEEE 1394**

- None

**Ethernet**

- Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

**Manageability**

- 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 lock
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement

**Power supply**

- 240 watts, universal, autosensing, 85% PSU

**Limited Warranty**

- 1-years, limited onsite service / service upgrades available
### ThinkCentre E73 SFF (10AW) - ES 6.0 (TopSeller) - III

<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>PCle WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
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Country Code**++**: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

### 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
- 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

### Limited Warranty
- 1-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

---

**Note:** Models listed above might not be available in all WE countries. See footnotes for important warranty information.
ThinkCentre E73 Tower (10AS) - TopSeller

Product Specifications Reference (PSREF)

### Type-model

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### Positioning

Stylish design, reliability, and productivity for small/medium businesses

- **1-year limited warranty**

### Processor

**Intel Core i3-4130 (2 cores / 4 threads, 3.4GHz, 3MB cache)**

- Intel HD Graphics 4400, 1600MHz DDR3 memory controller

### Implementation

- Processor in LGA1150 socket

### Memory

- 16GB max

### Graphics

**Intel HD Graphics or Intel HD Graphics 4400/4600**

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

### Disk

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

### Optical

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

### SATA controller

- Serial ATA, 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, optional serial (9-pin), optional parallel (25-pin)*

### Rear audio ports

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

### PCle WLAN

- None

### Audio

- High Definition (HD) Audio, Realtek ALC662 codec

### Speaker

- Internal speaker for business audio

### IEEE 1394

- None

### Ethernet

- Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

### Manageability

- None

### Modern

- None

### Security chip

- None

### Keyboard

- Some: Preferred Pro 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" X 15.7" 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

- Bay 1: 5.25"; 1.6" high, access, std optical
- Bay 2: 3.5"; 1.1" high, no access, std disk
- Bay 3: 3.5"; 35" high, access, optnl reader*
- Bay 4: 3.5"; 1.1" high, no access, opt 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 2.0 x1
- Slot 3: half-length, full-height, PCI 2.0 x1

### Limited Warranty

**1-year limited onsite service.**

5 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / 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
- 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

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Supports ThinkVantage Technologies
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Note: models listed above might not be available in all WE countries

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

Positioning: Stylish design, reliability, and productivity for small/medium businesses

Processor: Intel® Pentium® G3420 Processor (2 cores / 2 threads, 3.2GHz, 3MB cache), Intel HD Graphics, 1333MHz 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
- 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 disabling

Limited Warranty: 1-year limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

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WE model(s) announced October 22, 2013 or December 10, 2013

(G-TLS1T-2) December 2013
### ThinkCentre E73 Tower (10AS) - TopSeller - III

#### Product Specifications Reference (PSREF)

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- 1-year limited warranty

#### Preloaded operating system

No operating system

#### Security

- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
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- Power-on password
- Administrator password
- Hard disk password
- Boot sequence control
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(G-TLS1T-3) December 2013

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Country Code*:++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- Small and medium business (SMB) model(s), part of the Western Europe TopSeller™ Program

- 1-year limited warranty

#### Preloaded operating system

No operating system

#### 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

GREENGUARD® certified
RoHS-compliant
Supports ThinkVantage Technologies

See footnotes for important warranty information

WE model(s) announced October 22, 2013 or December 10, 2013

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(G-TLS1T-3) December 2013
### ThinkCentre E73 Tower (10AS) - TopSeller - IV

#### Product Specifications Reference (PSREF)

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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 WLAN</th>
<th>Media reader</th>
<th>Graphics</th>
<th>Parallel port</th>
<th>Serial port</th>
<th>Keyboard / mouse</th>
<th>Cable lock</th>
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<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
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<td>03/25/14</td>
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#### Note:
- Some models listed above might not be available in all WE countries.

#### ThinkCentre E73 Tower (10AS) - TopSeller - IV

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

---

**Positioning**

- Stylish design, reliability, and productivity for small and medium businesses

**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 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, 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)
- **Some:** [NVIDIA® GeForce® GT 620](https://www.geforce.com/), DirectX 11, 3D Hardware Acceleration,
- **1GB, Pcie Express 2.0 x16 adapter, one DisplayPort, 30 watts; Max resolution:** 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@60Hz

**DP dongle**

- None

**Disk**

- Some: SATA 6.0Gb/s, 3.5" Wide, 7200 rpm
- 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, 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, optional serial (9-pin)*, optional parallel (25-pin)*, ethernet (RJ-45), VGA DB-15, DisplayPort
- * Please see the detailed configuration on top

**Rear audio ports**

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

**PCle WLAN**

- None

**Audio**

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

**Speaker**

- Internal speaker for business audio

**IEEE 1394**

- None

**Ethernet**

- Gigabit ethernet port, Realtek RTL8111G/N, Wake on LAN

**Manageability**

- None

**Security**

- None

**Chipset**

- Security
- **Security slot (in rear for optional attachment)**
- **Cable lock to physically lock entire system to fixed object:**
  - Kensington®  MicroSaver® cable
- **Individual USB port disablement**
- **Boot sequence control**
- **Boot without keyboard and mouse**
- **Individual USB port disablement**

**Limited Warranty**

- 1-year or 3-year limited warranty

---

**Country Code "++":**

- AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

---

**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 attachment)
  - Kensington® MicroSaver® cable
  - Cable lock to physically lock keyboard and mouse (optional)
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement

---

**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
- 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

---

**Limited Warranty**

- 1-year or 3-year limited warranty

---

**See footnotes for important warranty information**

WE model(s) announced March 18 or 25, 2014

(G-TLS1T-4) March 2014 

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### Product Specifications Reference (PSREF)

#### ThinkCentre E73 Tower (10DR) - ES 6.0 (TopSeller)

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**Country Code**
- **AT (Austria)**, FR (France), GB (Germany w/English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MN (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

**Note:** models listed above might not be available in all WE countries.

### 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
- ThinkVantage Device Experience
- View Management Utility
- Lenovo Cloud Storage by SugarSync
- Lenovo Solution Center
- Lenovo Message Center Plus
- Norton™ Internet Security
- Windows Live™ Essentials
- 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:
  - Lock for hard drive (in rear for opt drive)
  - Security slot (in rear for optional Kensington® MicroSaver® cable)
- Cable lock to physically lock both keyboard and mouse (optional)
- Security key to lock both keyboard and mouse
- Hard disk password
- Boot sequence control
- Boot without keyboard and mouse
- Individual USB port disablement

- EPEAT® Silver;
- ENERGY STAR® 6.0
- GREENGUARD® certified
- RoHS-compliant

- ErP Lot 3 Supports ThinkVantage Technologies

See footnotes for important warranty information

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(G-TLS1T-5) May 2014
## ThinkCentre E73 Tower (10DR) - ES 6.0 (TopSeller) - II

### Product Specifications Reference (PSREF)

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<th>Type-model</th>
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<th>SATA disk GB rpm</th>
<th>SATA optical</th>
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<th>Media reader</th>
<th>Graphics</th>
<th>Parallel port</th>
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<th>Keyboard / mouse</th>
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<th>Warranty (year)</th>
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### Positioning
- Stylish design, reliability, and productivity for small/medium businesses

### Processor
- **Intel® Pentium® G3220 Processor (2 cores / 4 threads, 3.0GHz, 3MB cache)**
- **Intel Core™ i5-4440S Processor (4 cores / 4 threads, 2.8GHz, 6MB cache)**

### Implementation
- **Memory:** 16GB max, UDIMM, PC3-12800 1600MHz DDR3², 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: SATA 6.0Gb/s, 2.5" Wide

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

### SATa controller
- **Super SATA (SATA 6.0Gb/s, 3.5" Standalone 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 SSD/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, optional serial (9-pin)*, optional parallel (25-pin)*, ethernet (RJ-45), VGA DB-15, DisplayPort**

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

### Speaker
- **Internal speaker for business audio**

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

### Manageability
- **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)
  - Cable lock to physically lock both keyboard and mouse (optional)
  - Hard disk password
  - User identification (Logon-on password)
  - Administrator password
  - Hard disk password
  - Security key (Security key)
  - Boot sequence control
  - Boot without keyboard and mouse
  - Individual USB port disablement

### See footnotes for important warranty information

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(G-TLS1T-6) May 2014
## ThinkCentre E73 Tower (10DR) - ES 6.0 (TopSeller) - III
### Product Specifications Reference (PSREF)

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### Positioning
- **Processor**: Stylish design, reliability, and productivity for small/medium businesses
- **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 i5-4460S Processor** (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz 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

### 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)

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

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

### Power supply
- 280 watts, universal, autosensing, 85% PSU

### 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)
- Cable lock to physically lock both keyboard and mouse (optional)
- 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*
### ThinkCentre E73 Tower (10DR) - ES 6.0 (TopSeller) - IV

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### Preloaded operating system
Windows® 7 Professional 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
- ThinkVantage Device Experience
- View Management Utility
- 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

### Security
- One lock to secure both cover and entire system to fixed object:
  - Slot lock (in rear for opt slot lock)
- 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
- End user password on keyboard and mouse
- Individual USB port disablement

### Limited Warranty
- 1-years or 3-year, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

---

See footnotes for important warranty information

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(G-TLS1T-10) December 2014
ThinkCentre E73 Tower (10DR) - ES 6.0 (TopSeller) - V

**Product Specifications Reference (PSREF)**

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**Country Code**++*: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MN (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

**Positioning**
- Stylish design, reliability, and productivity for small/medium businesses
- 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 i5-4460S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
  - Intel Core i7-4790S Processor (4 cores / 4 threads, 3.4GHz, 6MB cache), Turbo Boost 2.0 (4.0GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller

**Implementation**
- Processor in LGA1150 socket
- Memory: 16GB max, UDIMM, PC3-12800 1600MHz DDR3
- System automatically clocks down for processors with 1333MHz memory controller
- Graphics:
  - Intel HD Graphics 4600/4400/4200
  - NVIDIA Geforce GT 620, DirectX 11, 3D Hardware Acceleration, 1GB, PCI Express 2.0 x16 adapter, one VGA, one DisplayPort, 30 watts
- DP dongle: None
- Disk:
  - SATA 6.0GB/s, 3.5" Wide, 7200 rpm
  - 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 (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
  - Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
  - Two USB 3.0, two USB 2.0, optional serial (9-pin)*, optional parallel (25-pin)*, ethernet (RJ-45), VGA DB-15, DisplayPort
  - Please see the detailed configuration on top
  - Front audio ports: Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone (stereo, 3.5mm)
  - PCIe LAN: None
  - Audio:
    - High Definition (HD) Audio, Realtek® ALC662 codec
  - Speaker:
    - Internal speaker for business audio
  - IEEE 1394: None
  - Ethernet:
    - Gigabit ethernet port, Realtek RTL8111GN, Wake on LAN

**Manageability**
- 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
- Power supply:
  - 280 watts, universal, auto-securing, 85% PSU
- 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:
  - Bay 1: 5.25", 1.6" high, access, std optical
  - Bay 2: 3.5", 1" high, no access, std disk
  - Bay 3: 1.5", 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-height, full-height, PCI Express® 3.0 x16 (60w max)
  - Slot 2: half-height, full-height, PCIe 2.0 x1
  - Slot 3: half-height, full-height, PCIe 2.0 x1

**Limited Warranty**
- 1-years or 3-year, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / 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
- 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)
  - Cable lock to physically lock both keyboard and mouse (optional)
  - Boot without keyboard and mouse
  - Power-on password
  - Administrator password
  - Hard disk password
  - Boot sequence control
  - Boot to default operating system
  - Individual USB port disablement

**EPS/EPEAT Silver; ENERGY STAR® 6.0; GREENGUARD® certified**

**Supports ThinkVantage Technologies**

See footnotes for important warranty information

©Lenovo (G-TLS1T-11) January 2015
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Note: models listed above might not be available in all WE countries

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

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**Preloaded operating system**

No operating system

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**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
- GREENGUARD® certified RoHS-compliant ErP Lot 3

Supports ThinkVantage Technologies

See footnotes for important warranty information

©Lenovo

(G-TLS1T-7) May 2014
ThinkCentre E73 Tower (10DR) - TopSeller - II
Product Specifications Reference (PSREF)

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Country Code*++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

Positioning: Stylish design, reliability, and productivity for small/medium businesses

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™ i5-4460S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller
- Intel Core™ i3-4150 Processor (4 cores / 4 threads, 3.5GHz, 1333MHz DDR3 memory controller)
- Intel Core™ i7-4790S Processor (4 cores / 8 threads, 3.0GHz, 8MB cache), Turbo Boost 2.0 (4.0GHz), 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)

Preloaded operating system: No operating system

Slot x bay:

<table>
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<tr>
<th>Slot</th>
<th>Bay</th>
<th>Notes</th>
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<tbody>
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</tr>
<tr>
<td>5</td>
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</tbody>
</table>

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-years, limited onsite service. 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

Supports ThinkVantage Technologies

See footnotes for important warranty information

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(G-TLS1T-8) July 2014
<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Multi-touch</th>
<th>Disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>PClie Mini Card</th>
<th>Media reader</th>
<th>Stand type</th>
<th>Key-board/ Mouse Global</th>
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<td>500G Hybrid</td>
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Country Code*++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IWI (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

Positioning and Processor

- **Premium All-In-One PC for the enterprise**
- **Intel Core** i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache)
- **Intel Core i3-4430 Processor (2 cores / 4 threads, 3.5GHz, 3MB cache)**
- **Intel Core i5-4460S Processor (4 cores / 4 threads, 3.5GHz, 3MB cache)**
- **Intel Core i5-4460S Processor (4 cores / 4 threads, 3.5GHz, 3MB cache)**
- **Intel Core i5-4460S Processor (4 cores / 4 threads, 3.5GHz, 3MB cache)**

Implementation

- Processor in LGA1150 socket
- **Intel HD Graphics 4400, 1600MHz DDR3 memory controller**
- **Intel HD Graphics 4400, 1600MHz DDR3 memory controller**
- **Intel HD Graphics 4400, 1600MHz DDR3 memory controller**
- **Intel HD Graphics 4400, 1600MHz DDR3 memory controller**
- **Intel HD Graphics 4460, 1600MHz DDR3 memory controller**

Memory

- 16GB max, two 204-pin SODIMM sockets (notebook)
- **PCIe Mini Card Two PCI Express Mini Card slots**
- **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 Some: 11b/g/n wireless, Intel Centrino Wireless-N 2230, Wi-Fi + BT4.0, 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 None**
- **Security chip None**
- **Keyboard Ultraship Wireless Keyboard (2.4GHz via USB receiver), black**
- **Mouse Ultraship Wireless Mouse (2.4GHz via USB receiver), black**
- **Power supply 150 watts, autoseensing, 85% PSU**
- **Color Business black color**
- **VESA mount Support VESA mount (100mm)**
- **Dimensions and weight (without stand) Non-touch models (WxDxH): 21.02” X 1.91” 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 1.95” 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 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available**

See footnotes for important warranty information

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Country Code*++*: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

*Small and medium business (SMB) model(s), part of the Western Europe TopSeller™ Program

*3-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±R)
- Cyberlink PowerProducer (DVD±RW)
- Lenovo Power Manager
- Lenovo ThinkVantage Power Manager
- Lenovo Rescue and Recovery®
- Lenovo voSTIC
- Lenovo voSolutions for Small Business
- Lenovo voSolutions Center
- Lenovo voSecurity Manager
- Skype™
- Energy Star 6.0-compliant
- EPA 2013
- GREENGUARD® certified
- RoHS-compliant

**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

**Limited Warranty**

3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available
**ThinkCentre E93z (10B8) - TopSeller (3-year Onsite) - Win8**

### Product Specifications Reference (PSREF)

*Country Code*: **++**: AT (Austria), FR (France), GB (United Kingdom), NL (Netherlands), DE (Germany), ES (Spain), IT (Italy), PL (Poland), SE (Sweden), FI (Finland), SE (Sweden), DA (Denmark), SK (Slovakia), PT (Portugal), RO (Romania), HU (Hungary), CZ (Czech Republic), TR (Turkey), GR (Greece), SE (Sweden), NO (Norway), TR (Turkey), IT (Italy), DE (Germany), FR (France), ES (Spain), SE (Sweden), CEE (Central Europe), UK (United Kingdom), NL (Netherlands), PL (Poland), RO (Romania), SK (Slovakia), HU (Hungary), CZ (Czech Republic), TR (Turkey), PT (Portugal), IT (Italy), DE (Germany), ES (Spain), SE (Sweden), NO (Norway), IT (Italy), DE (Germany), ES (Spain), SE (Sweden), CEE (Central Europe), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

### Preloaded operating system

- **Some**: Windows® 8 64-bit
- **Some**: 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
- Lenovo Solutions for Small Business
- Norton Backup (30 days of virus definitions)
- Skype
- Norton Security Suite
- Microsoft Office preloaded; purchase a product key to activate

### Security

- Security slot (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

### Limited Warranty

- 3-years, limited onsite service, 9 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

### Limited Warranty

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<th>Multi-touch</th>
<th>Camera (megapixel)</th>
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<th>Graphics</th>
<th>PCIe Mini Card</th>
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<th>Media reader</th>
<th>Stand type</th>
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**Note:**

- Business black color

See footnotes for important warranty information

WE model(s) announced September 24, 2013

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(G-TRPL1-7) September 2013
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Country Code+*: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

Positioning
- Processor: Premium All-In-One PC for the enterprise
- Processor Implementation: Intel® Core™ i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHZ DDR3 memory controller

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: 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

Display
- Light sensor: None
- 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: Monitor mode / computer mode button, volume up/down buttons, and power button
- Disk: 500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6Gb/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

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

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

Ethernet
- One gigabit ethernet port, Intel I217-V, Wake on LAN®, Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified

Audio support
- Intel AMT Security chip
- None

Keyboard Mouse
- UltraSlim Plus Wireless Keyboard (2.4GHz via USB receiver), black
- UltraSlim Plus Wireless Mouse (2.4GHz via USB receiver), black
- 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 19.5" 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
- 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / 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)
- 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

See footnotes for important warranty information

WE model(s) announced August 27, 2013 or September 10, 2013

Lenovo (G-TRPL1-2) September 2013
<table>
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<th>Positioning</th>
<th>Premium All-In-One PC for the enterprise</th>
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<tbody>
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<td>Processor</td>
<td>Intel\textsuperscript{\textregistered} Core\textsuperscript{\textregistered} i3-4130 Processor (2 cores / 4 threads, 3.4GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</td>
</tr>
<tr>
<td>Implementation</td>
<td>Processor in LGA1150 socket</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>NVIDIA\textsuperscript{\textregistered} Optimus\textsuperscript{\textregistered} 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, Direct\textsuperscript{\textregistered}X 11, external digital monitor support via HDMI, supports dual independent display; Max resolution: 1920x1080 (panel) @ 60Hz; 1920x1080 (HDMI) @ 60Hz</td>
</tr>
<tr>
<td>Display</td>
<td>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>
</tr>
<tr>
<td>Light sensor</td>
<td>None</td>
</tr>
<tr>
<td>Multi-touch</td>
<td>None</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>Monitor mode / computer mode button, volume up/down buttons, and power button</td>
</tr>
<tr>
<td>Disk</td>
<td>500GB (5400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5&quot; wide</td>
</tr>
<tr>
<td>Optical</td>
<td>DVD burner, SATA 1.5Gb/s, 12.7mm high, fixed, not removable</td>
</tr>
<tr>
<td>Onboard SATA</td>
<td>Two SATA cables (each 1-drop to device), one SATA 6.0Gb/s connector and one SATA 3.0Gb/s connector 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\textsuperscript{\textregistered} B85 Express Chipset</td>
</tr>
<tr>
<td>Rear ports</td>
<td>Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in</td>
</tr>
<tr>
<td>Side ports</td>
<td>Two USB 3.0, one Always On USB 3.0, one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader</td>
</tr>
<tr>
<td>PCIe Mini Card</td>
<td>Two PCI Express Mini Card slots</td>
</tr>
<tr>
<td>PCIe WLAN</td>
<td>11b/g/n wireless, PCIe Half Mini Card, Intel Centrino\textsuperscript{\textregistered} Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</td>
</tr>
<tr>
<td>Ethernet</td>
<td>One gigabit ethernet port, Intel I217-V, Wake on LAN</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby\textsuperscript{\textregistered} Advanced Audio\textsuperscript{\textregistered} v2 certified, Microsoft Lync\textsuperscript{\textregistered} certified</td>
</tr>
<tr>
<td>Intel AMT</td>
<td>None</td>
</tr>
<tr>
<td>Security chip</td>
<td>None</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Preferred Pro USB Keyboard (USB connector), Lenovo\textsuperscript{\textregistered} logo</td>
</tr>
<tr>
<td>Mouse</td>
<td>Enhanced Optical USB Mouse, black, Lenovo logo</td>
</tr>
<tr>
<td>Power supply</td>
<td>180 watts, autosensing, 92% PSU</td>
</tr>
<tr>
<td>Color</td>
<td>Business black color</td>
</tr>
<tr>
<td>VESA mount</td>
<td>Support VESA mount (100mm)</td>
</tr>
<tr>
<td>Dimensions and weight (without stand)</td>
<td>Non-touch models (WxDxH): 21.02&quot; x 1.91&quot; x 15.20&quot;; 534mm x 48.5mm x 386 mm 14.55 lb (6.6 kg) in maximum configuration</td>
</tr>
<tr>
<td>Touch models (WxDxH):</td>
<td>21.02&quot; x 1.98&quot; x 15.20&quot;; 534mm x 49.6mm x 386 mm 16.31 lb (7.4 kg) in maximum configuration</td>
</tr>
<tr>
<td>Stand</td>
<td>Optional Frame Stand: Adjustable between 10° and 65&quot; (Tilt)</td>
</tr>
<tr>
<td>Optional Monitor Stand:</td>
<td>Adjustable between -5° and 45° (Tilt)</td>
</tr>
<tr>
<td>Optional UltraFlex Stand:</td>
<td>Tilt: 65° back, 0° forward; Lift: 110mm; Swivel: +/-90°; supports recline mode (from an upright position to an angled plane) and cable management</td>
</tr>
<tr>
<td>Limited Warranty</td>
<td>3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available</td>
</tr>
</tbody>
</table>

Preloaded operating system
- Windows\textsuperscript{\textregistered} 8 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\textsuperscript{\textregistered}
- Lenovo Cloud Storage by SugarSync
- Windows\textsuperscript{\textregistered} EnergyStar
- Energy Star
- ENERGY STAR\textsuperscript{\textregistered} 6.0-compliant

Security
- Security slot (in rear for attachment of optional Kensington\textsuperscript{\textregistered} MicroSaver\textsuperscript{\textregistered} 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

See footnotes for important warranty information
WE model(s) announced September 24, 2013

Lenovo (G-TRPL1-8) October 2013
| Type-model | Processor | Memory | Wide-screen display | Multi-touch | Camera (megapixel) | Disk SATA | SATA optical | Graphics | Mini Card LAN | Media reader | Stand type | Key- | Battery | Preload | Ann date |
|------------|-----------|--------|---------------------|-------------|-------------------|-----------|--------------|----------|---------------|-------------|------------|board | Warranty |         | (mm/dd/yy) |
| 10CX002B++ | i5-4460S 4GBx1 21.5" FHD Touch 2.0M 128G SSD DVD±RW HD 4600 7260 ac Media UltraFlex 2.4G 3-onsite Win8.1 Pro64 08/05/14 | Intel Core i5-4460S Processor (4 cores / 4 threads, 2.9GHz. 6MB cache), Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller | 16GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook) | Intel HD Graphics 4400, 1600MHz DDR3 memory controller | 10X001H++ | i5-4460S 4GBx1 21.5" FHD Touch 2.0M 500G Hybrid DVD±RW HD 4400 7260 b/g/n Media UltraFlex 2.4G 1-onsite Win8.1 Pro64 07/15/14 | 10CX001G++ | i3-4150 4GBx1 21.5" FHD Touch 2.0M 500G Hybrid DVD±RW HD 4400 7260 b/g/n Media UltraFlex 2.4G 1-onsite Win8.1 Pro64 07/15/14 | 10CX002E++ | i5-4460S 4GBx1 21.5" FHD Touch 2.0M 1800G SSD DVD±RW HD 4600 7260 b/g/n Media UltraFlex 2.4G 3-onsite Win8.1 Pro64 12/09/14 | 10CX001H++ | i5-4460S 4GBx1 21.5" FHD Touch 2.0M 500G Hybrid DVD±RW HD 4400 7260 b/g/n Media UltraFlex 2.4G 1-onsite Win8.1 Pro64 07/15/14 | 10CX001G++ | i3-4150 4GBx1 21.5" FHD Touch 2.0M 500G Hybrid DVD±RW HD 4400 7260 b/g/n Media UltraFlex 2.4G 1-onsite Win8.1 Pro64 07/15/14 | 10CX002E++ | i5-4460S 4GBx1 21.5" FHD Touch 2.0M 1800G SSD DVD±RW HD 4600 7260 b/g/n Media UltraFlex 2.4G 3-onsite Win8.1 Pro64 12/09/14 |

Country Code**++**: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

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

Implementation
- Processor in LGA1150 socket

Audio support
- High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2)

Display
- 21.5" (546.1mm) Full HD 1080p (1920x1080) TFT color, 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
- Some: 500GB (5400 rpm) or 1TB (7200 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, 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: 11ac/a/b/g/n wireless, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + Bluetooth combo adapter, 2x2
- 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

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

LIMITED WARRANTY

Preloaded operating system
- Some: Windows® 8.1 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
  - 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

Other:
- Cyberlink PowerDVD (DVD±RW, DVD)
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- Evernote™
- Lenovo Solutions for Small Business
- Norton Internet Security

See footnotes for important warranty information

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(G-TRPL1-12) December 2014
ThinkCentre E93z (10BA) - Touch (NVIDIA) - TopSeller

Product Specifications Reference (PSREF)

Type-model 10BA002L++

Country Code*:++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

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

Positioning

Processor Preloaded operating system

Processor Intel® Core™ i5-4430S Processor (4 cores / 4 threads)

Implementation 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 4600, 1600MHz DDR3 memory controller

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

Disk 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

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, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth 4.0 wireless, integrated in Intel 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 None

Security chip None

Keyboard Ultraslim Plus Wireless Keyboard (2.4GHz via USB receiver), black

Mouse UltraSlim 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 1.95” 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 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

WE model(s) announced September 10, 2013

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(G-TRPL1-3) September 2013
## ThinkCentre E93z (10BA) - Touch (NVIDIA) - TopSeller (3-year)

### Product Specifications Reference (PSREF)

<table>
<thead>
<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 rpm</th>
<th>Graphics</th>
<th>SATI optical</th>
<th>Mini Card WLAN</th>
<th>Media reader</th>
<th>Stand type</th>
<th>Keyboard/Mouse Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10BA003M++</td>
<td>i5-4430S</td>
<td>4GBx1</td>
<td>21.5&quot; FHD Touch</td>
<td>2.0M</td>
<td>128GB SSD</td>
<td>DVD±RW</td>
<td>GT 720A</td>
<td>N2230</td>
<td>Media UltraFlex</td>
<td>2.4G None</td>
<td>Win7 Pro64 DG</td>
<td>10/22/13</td>
<td>07/15/14</td>
<td></td>
</tr>
<tr>
<td>10BA0091++</td>
<td>i5-4460S</td>
<td>4GBx1</td>
<td>21.5&quot; FHD Touch</td>
<td>2.0M</td>
<td>128GB SSD</td>
<td>DVD±RW</td>
<td>GT 720A</td>
<td>N2230</td>
<td>Media UltraFlex</td>
<td>2.4G None</td>
<td>Win7 P64 DG Win8.1</td>
<td>07/15/14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Country Code**++**: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

- Small and medium business (SMB) model(s), part of the Western Europe TopSeller™ Program
- 3-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

### 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

### Limited Warranty

- 3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

©Lenovo (G-TRPL1-9) July 2014
**ThinkCentre E93z (10BA) - Touch (NVIDIA) - TopSeller (Win8)**

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Country Code</th>
<th>WE model(s) announced</th>
<th>September 10, 2013</th>
</tr>
</thead>
</table>

**Positioning**

- **Premium All-In-One PC for the enterprise**
- **1-year limited warranty**

**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

**Memory**

- 16GB max, 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

**Disk**

- 500GB (6400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

**Garantie**

- 1 year limited warranty

**Stand**

- Optional Monitor Stand

**Dimensions and weight (without stand)**

- **Non-touch models (WxDxH):** 21.02" X 19.11" X 15.20"; 534mm X 48.5mm X 386 mm

- **Touch models (WxDxH):** 21.02" X 19.15" X 15.20"; 534mm X 49.6mm X 386 mm

**Limited Warranty**

- 1-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

**Power supply**

- 180 watts, autosensing, 92% PSU

**Color**

- Business black color

**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
  - 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

**VESA mount**

- Support VESA mount (100mm)

**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

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See footnotes for important warranty information

WE model(s) announced September 10, 2013

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(G-TRPL1-4) September 2013
### ThinkCentre E93z (10BA) - Touch (NVIDIA) - TS (Win8) - 3-year

<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>Optical</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>Media reader</th>
<th>Stand type</th>
<th>Keyboard/ Mouse Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10BA003C++</td>
<td>i5-4430S 4GBx1</td>
<td>21.5&quot; FHD Touch</td>
<td>2.0M 500G Hybrid DVD±RW</td>
<td>GT 720A</td>
<td>N2230</td>
<td>Media UltraFlex USB</td>
<td>None</td>
<td>Win8 Pro64</td>
<td>09/10/13</td>
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**Country Code**++: AT (Austria), FR (France), GB (Great Britain w/ English OS), GE (Germany w/ German OS), LV (Latvia), LT (Lithuania), NL (Netherlands), NO (Norway), PL (Poland), PT (Portugal), RO (Romania), SE (Sweden), SI (Slovenia), TR (Turkey), TC (Turkey Cypriot), US (USA) **Note:** models listed above might not be available in all WE countries

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

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

### 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), 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
- 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, aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector

### Light sensor
- None

### Multi-touch
- Cameras
- 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
- 500GB (6400 rpm) hybrid hard disk / with 8GB MLC NAND flash memory, SATA 6.0Gb/s, 2.5" wide

### Optical
- Optical drive: 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, PCie 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 Enhanced Optical USB Mouse, black, Lenovo logo
- 180 watts, autosensing, 92% 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 14.55 lb (6.6 kg) in maximum configuration
- Touch models (WxHxD): 21.02" X 1.95" X 15.20"; 534mm X 49.6mm X 386 mm 16.31 lb (7.4 kg) in maximum configuration

### Stand
- Optional Frame Stand:
  - Adjutable 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

See footnotes for important warranty information

WE model(s) announced September 10, 2013

©Lenovo (G-TRPL1-5) September 2013
## ThinkCentre E93z (10B8) - 3-year Onsite

**Product Specifications Reference (PSREF)**

<table>
<thead>
<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</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>PCIe Mini Card</th>
<th>WLAN</th>
<th>Media reader</th>
<th>Stand type</th>
<th>Keyboard/Mouse</th>
<th>Preload</th>
<th>Ann date (mm/dd/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10B8006H++</td>
<td>Intel Core™ i3-4160 Processor (2 cores / 4 threads, 3.6GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</td>
<td>2GBx1</td>
<td>16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector</td>
<td>None</td>
<td>2.0M</td>
<td>500G Hybrid DVD±RW</td>
<td>HD 4600</td>
<td>7260 500G Media</td>
<td>Frame</td>
<td>2.4G</td>
<td>Win7 Pro64</td>
<td>DG Win8.1</td>
<td>11/25/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10B8008H++</td>
<td>Intel Core™ i5-4460S Processor (4 cores / 8 threads, 3.3GHz, 6MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</td>
<td>4GBx1</td>
<td>16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector</td>
<td>None</td>
<td>2.0M</td>
<td>500G Hybrid DVD±RW</td>
<td>HD 4600</td>
<td>7260 500G Media</td>
<td>UltraFlex</td>
<td>2.4G</td>
<td>Win7 Pro64</td>
<td>DG Win8.1</td>
<td>11/25/14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10B8008J++</td>
<td>Intel Core™ i7-4770S Processor (4 cores / 8 threads, 3.1GHz, 8MB cache), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</td>
<td>4GBx1</td>
<td>16:9 aspect ratio, 1000:1 contrast ratio, infinity display, work as standalone monitor via HDMI-in connector</td>
<td>None</td>
<td>2.0M</td>
<td>500G Hybrid DVD±RW</td>
<td>HD 4600</td>
<td>7260 500G Media</td>
<td>Frame</td>
<td>2.4G</td>
<td>Win7 Pro64</td>
<td>DG Win8.1</td>
<td>11/25/14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **3-year limited warranty**

### Preloaded applications

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

### Ready to install applications

- Rescue and Recovery™
- Password Manager

### 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®

- ENERGY STAR® 6.0-compliant

**Note:** models listed above might not be available in all WE countries

---

*Country Code*++: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IT (Italy), MB (Belgium), MD (Denmark), MTH (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

*See footnotes for important warranty information*
<table>
<thead>
<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>SADA optical</th>
<th>Graphics</th>
<th>PCIe Mini Card/WLAN</th>
<th>Media reader</th>
<th>Stand type</th>
<th>Keyboard/Mouse Global</th>
<th>Preload</th>
<th>Ann date (mm/dd/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10B9002Y++</td>
<td>G3460</td>
<td>4GBx1</td>
<td>21.5&quot; FHD</td>
<td>None</td>
<td>2.0M</td>
<td>500G Hybrid</td>
<td>DVD±RW</td>
<td>GT 720A</td>
<td>7260 b/g/n</td>
<td>Media Frame</td>
<td>Frame</td>
<td>None</td>
<td>Win7</td>
<td>11/25/14</td>
</tr>
<tr>
<td>10B90030++</td>
<td>i5-4460S</td>
<td>4GBx1</td>
<td>21.5&quot; FHD</td>
<td>None</td>
<td>2.0M</td>
<td>500G Hybrid</td>
<td>DVD±RW</td>
<td>GT 720A</td>
<td>7260 b/g/n</td>
<td>Media Frame</td>
<td>Frame</td>
<td>None</td>
<td>Win7</td>
<td>11/25/14</td>
</tr>
<tr>
<td>10B90032++</td>
<td>i3-4160</td>
<td>4GBx1</td>
<td>21.5&quot; FHD</td>
<td>None</td>
<td>2.0M</td>
<td>500G Hybrid</td>
<td>DVD±RW</td>
<td>GT 720A</td>
<td>7260 b/g/n</td>
<td>Media Frame</td>
<td>Frame</td>
<td>None</td>
<td>Win7</td>
<td>11/25/14</td>
</tr>
</tbody>
</table>

Country Code "++": AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IT (Italy), MB (Belgium), MD (Denmark), Mri (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all W countries. 

3-years limited warranty

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® 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

See footnotes for important warranty information ©Lenovo

(G-TRPL1-13) December 2014
<table>
<thead>
<tr>
<th>Type-model</th>
<th>10B90031++</th>
<th>i3-4160</th>
<th>4GBx1</th>
<th>21.5” FHD</th>
<th>None</th>
<th>2.0M</th>
<th>500G Hybrid DVD±RW</th>
<th>GT 720A</th>
<th>7260 b/g/n Media UltraFlex</th>
<th>USB</th>
<th>None</th>
<th>Win8.1 64</th>
<th>11/25/14</th>
</tr>
</thead>
</table>

Country Code“+”: AT (Austria), FR (France), GB (Germany w/ English OS), GE (Germany w/ German OS), IV (Israel), IW (Iceland), IX (Italy), MB (Belgium), MD (Denmark), MN (Netherlands), ML (Luxembourg), MN (Norway), MS (Sweden), MZ (Switzerland), NX (Netherlands), PG (Portugal), SP (Spain), UK (United Kingdom)

Note: models listed above might not be available in all WE countries

*3-year limited warranty*

<table>
<thead>
<tr>
<th>Positioning Processor</th>
<th>Premium All-In-One PC for the enterprise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Pentium® G3460 Processor (2 cores / 2 threads, 3.5GHz, 3MB cache), Intel HD Graphics, 1600MHz DDR3 memory controller</td>
</tr>
<tr>
<td>Intel Core i3-4160 Processor (2 cores / 4 threads, 3.6GHz, 3MB cache), Intel HD Graphics 4400, 1600MHz DDR3 memory controller</td>
<td></td>
</tr>
<tr>
<td>Intel Core i5-4460S Processor (4 cores / 4 threads, 2.9GHz, 6MB cache), Turbo Boost 2.0 (3.4GHz), Intel HD Graphics 4600, 1600MHz DDR3 memory controller</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Graphics</th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>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</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Light sensor</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-touch</td>
<td>None</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>Monitor mode / computer mode button, volume up/down, and power button</td>
</tr>
</tbody>
</table>

| Disk                   | 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 |

<table>
<thead>
<tr>
<th>Chipset</th>
<th>Intel B85 Express Chipset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear ports</td>
<td>Four USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in</td>
</tr>
<tr>
<td>Side ports</td>
<td>Two USB 3.0 (one Always On USB 3.0), one headphone / microphone combo jack (stereo, 3.5mm), one optional media card reader</td>
</tr>
<tr>
<td>PCIe Mini Card</td>
<td>Two PCI Express® Mini Card slots</td>
</tr>
<tr>
<td>PCIe WLAN</td>
<td>11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>Bluetooth 4.0 wireless, integrated in Intel Wi-Fi + Bluetooth combo adapter</td>
</tr>
<tr>
<td>Ethernet</td>
<td>One gigabit ethernet port, Intel I217-V, Wake on LAN</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Realtek ALC283CG / two internal stereo speakers (3watt x 2), Dolby® Advanced Audio™ v2 certified, Microsoft Lync™ certified</td>
</tr>
<tr>
<td>Intel AMT</td>
<td>None</td>
</tr>
</tbody>
</table>

| Keyboard Mouse         | Preferred Pro USB Keyboard (USB connector), Lenovo® logo Enhanced Optical USB Mouse, black, Lenovo logo Power supply 180 watts, auto-sensing, 92% PSU |
| Color                  | Business black color |
| VESA mount             | Support VESA mount (100mm) |

| Dimensions and weight (without stand) | Non-touch models (WxDxH): 21.02” X 1.91” X 15.20”; 534mm X 48.5mm X 386 mm 14.55 lb (6.6 kg) in maximum configuration 21.02” X 1.95” 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 public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available |

See footnotes for important warranty information ©Lenovo (G-TRPL1-14) December 2014

```markdown
<table>
<thead>
<tr>
<th>Preloaded operating system</th>
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</thead>
<tbody>
<tr>
<td>Windows® 8.1 64-bit</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Web install applications (only some listed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password Manager</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Preloaded applications (only some listed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkVantage System Update</td>
</tr>
<tr>
<td>ThinkVantage AutoLock</td>
</tr>
<tr>
<td>Desktop Power Manager</td>
</tr>
<tr>
<td>View Management Utility</td>
</tr>
<tr>
<td>Lenovo Cloud Storage by SugarSync</td>
</tr>
<tr>
<td>Lenovo Solution Center</td>
</tr>
<tr>
<td>Lenovo Support</td>
</tr>
<tr>
<td>Lenovo Companion</td>
</tr>
<tr>
<td>Norton Internet Security</td>
</tr>
<tr>
<td>(30 days of virus definitions)</td>
</tr>
<tr>
<td>Skype®</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENERGY STAR® 6.0-compliant EuP 2013 GREENGUARD® certified RoHS-compliant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supports ThinkVantage Technologies</td>
</tr>
</tbody>
</table>
```
ThinkCentre E93z (10BA) - Touch (NVIDIA) - (Win8.1) - 3-year

**Positioning**
Premium All-In-One PC for the enterprise

**Processor**
Intel Core i3-4460 Processor (2 cores / 4 threads, 3.2GHz, 16MB cache)

**Graphics**
NVIDIA GeForce GT 720A, PCI Express x16, 2x2 Mini Card, supported by Intel HD graphics

**Memory**
4GB max, PC3-12800 1600MHz DDR3, two 204-pin SODIMM sockets (notebook)

**Display**
Full HD 1920 x 1080, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, infinite display

**Audio**
Audio supports HD Audio, Realtek ALC283 (16-bit, 2-channel), one 3.5mm headset jack

**Disk**
500GB, SATA 6.0Gb/s, 7200 rpm, Hybrid hard disk

**Optical**
DVD burner, SATA 1.5Gb/s, 12.7mm thick, not removable

**Input Devices**
External keyboard, USB 3.0, one internal 3.5mm microphone, one 3.5mm headphone jack

**Software**
Preloaded operating system
- Windows 8.1 64-bit
- Windows 8.1 Pro 64-bit

Web install applications
- Microsoft Office preloaded
- Shadow desktop manager
- Norton Antivirus & Norton Internet Security
- McAfee Total Protection
- Lenovo Software Solutions for Small Business
- Lenovo Backup and Restore
- Lenovo Support Center
- Lenovo Solution Center

**Security**
- Security slot (in rear for attachment of optional Kensington MicroSaver cable)
- Hard disk password
- USB port disablement
- Boot sequence control

**Dimensions and Weight**

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (Wx Dx H)</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-touch models (Wx Dx H):</td>
<td>21.02” X 19.11” X 15.20”; 534mm X 48.55mm X 388 mm</td>
<td>11.86 lbs (5.4 kg)</td>
</tr>
<tr>
<td>Touch models (Wx Dx H):</td>
<td>21.02” X 19.15” X 15.20”; 534mm X 49.66mm X 388 mm</td>
<td>11.86 lbs (5.4 kg)</td>
</tr>
</tbody>
</table>

**Limited Warranty**
3-years, limited onsite service, 8 am-5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available
### Disclaimer

Lenovo provides the information in the Product Specifications Reference (PSREF) withdrawn product books on an "AS-IS" basis. Because the actual products have been withdrawn from marketing, the information in these withdrawn product books is no longer maintained or updated. The referenced footnote numbering may not correspond with the listed footnotes.

PSREF books for the withdrawn systems:
Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.


1 Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

2 Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

3 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.

4 CD and DVD list maximum rates; rates are variable and are often less than the maximum.

5 Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

6 Memory: For PCs without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 384MB less than the amount stated, depending on video mode.

7 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.

8 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.

9 Wireless capability: Requires compatible wireless-enabled options sold separately.

10 Response times may vary. May exclude some holidays. Telephone support may be subject to additional charges.

11 Update Connector is available at no charge to registered customers during the limited warranty period. Line charges may apply.

12 Embedded Security Subsystem works with optional VPN software.

13 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.

14 For combination drives, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.

15 The 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.
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