Personal Systems Reference
Lenovo IdeaCentre Desktops

June 2013 - Version 437

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### IdeaCentre K410 (1168)

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<td>1168-1DU 5x4</td>
<td>I5-2220 3.00</td>
<td>3.30</td>
<td>4GBx2</td>
<td>21B Dock only</td>
<td>DVD+RW Intel HD 2000 None None</td>
<td>11b/g/n 280W USB 3.0 Prem 64</td>
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</tr>
</tbody>
</table>

- **Power Control Switch**: color-coded three-speed switch to easily choose between turbo, auto, and cool running modes
- **Tool-free chassis design** for easy upgrading and maintenance
- **Optional Universal Storage Module**: portable HDD and dock
- **Lenovo Rescue System**: provides Onekey recovery without booting into Windows
- **These systems are Microsoft Office 2010 Product Key Ready (O10PKR)**

### Processor

- **Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)**, integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz)
- **Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache)**, Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz)

### Memory

- 8GB max*, dual-channel capable, PC3-12800 1600MHz DDR3, non-parity, two 240-pin DIMM sockets
- * System automatically clocks down for processors with 1333MHz memory controller

### Graphics

- **Intel HD Graphics 2000**, integrated graphics in processor, uses main memory, one VGA connector, one HDMI connector, HDCP-compliant

### SATA disk

- 1TB or 2TB, SATA 6.0Gb/s, 7200 rpm

### mSATA SSD

- None

### USM portable disk

- Hard disk dock only, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable

### SATA controller

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

### SATA optical

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

### SATA cables

- Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)

### Media reader

- 9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)

### Chipset

- **Intel H61 Express Chipset**

### Front ports

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

### Rear ports

- Four USB 2.0, two USB 3.0 via optional USB 3.0 card on some models, ethernet (RJ-45), monitor (VGA, HDMI)

### Rear audio ports

- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm), high-definition (HD) audio, ALC662 codec

### Speaker

- None

### Wireless

- 11b/g/n wireless®, PCIe Half Mini Card, Realtek® RTL8188CE

### Ethernet

- Gigabit ethernet on planar, Realtek RTL8111F-VB

### Modem

- None

### TV tuner

- None

### Remote control

- None

### Keyboard

- Full-size keyboard (USB connector), fn keys, black

### Mouse

- Optical Wheel Mouse (USB connector), black

### Power supply

- 280 watts, universal, manual switch

### Machine

- Metal Gray (metal brush effect)
- 6.89' W X 16.10' D X 14.17' H; 175mm W X 409mm D X 360mm H
- From 24.6 lb (11.2 kg), weight may vary by configuration
- Toolless cover removal
- Toolless disk, optical drive removal

### Bay

- **Bay 1**: 5.25", 1.6" high, access, standard optical
- **Bay 2**: 5.25", 1.6" high, access, open
- **Bay 3**: 3.5", 1" high, no access, standard disk
- **Bay 4**: 3.5", 1" high, no access, optional disk
- **Bay 5**: 3.5", 1" high, access, optional USM portable disk

### Slot

- **Slot 1**: half-length, full-height, PCI Express x16 Ver 2.0
- **Slot 2**: half-length, full-height, PCI Express x1 Ver 2.0
- **Slot 3**: half-length, full-height, PCI Express x1 Ver 2.0
- **Slot 4**: half-length, full-height, PCI Express x1 Ver 2.0
- **Graphics adapter in slot on some models, some graphics adapters occupy two slots**
- **TV tuner / USB 3.0 card in slot or slot occupied by graphics adapter on some models**

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See footnotes for important warranty information

US model(s) announced July 11, 2012

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(ROAT2-1) August 2012
IdeaCentre™ K410 (Windows 8)

**Processor**
- **Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache),**
  - integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz)
  - Turbo Boost Technology 2.0 (up to 3.20 GHz), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz)
  - Intel Core i5-3330 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache),
  - Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz)

**Implementation**
- Processor in LGA1155 socket

**Memory**
- 8GB max, dual-channel capable, PC3-12800 1600MHz DDR3,
- non-parity, two 240-pin DIMM sockets
- *System automatically clocks down for processors with 1333MHz memory controller*

**Graphics**
- Some: Intel HD Graphics 2500, integrated graphics in processor, uses main memory
- Some: NVIDIA® GeForce® GT 620, PCI Express x16, 1GB memory, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant

**SATA disk**
- 1TB or 2TB, SATA 6.0Gb/s, 7200 rpm

**mSATA SSD**
- None

**USM portable disk**
- Hard disk dock only, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable

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

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

**SATA cables**
- Two SATA cables (each 1-drop to device), three SATA 3.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)

**Media reader**
- 9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)

**Chipset**
- Intel H61 Express Chipset

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

**Rear ports**
- Four USB 2.0, two USB 3.0 via optional USB 3.0 card on some models, ethernet (RJ-45), monitor (VGA, HDMI)

**Rear audio ports**
- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm), audio (HD audio), ALC662 codec

**Speaker**
- None

**Wireless**
- 11b/g/n wireless, PCIe Half Mini Card, Realtek® RTL8188CE

**Ethernet**
- Gigabit ethernet on planar, Realtek RTL8111F-VB

**Modem**
- None

**TV tuner**
- None

**Remote control**
- None

**Keyboard**
- Full-size keyboard (USB connector), Fn keys, black

**Mouse**
- Optical Wheel Mouse (USB connector), black

**Power supply**
- 280 watts, universal, manual switch

**Machine**
- Metal Gray (metal brush effect)
- 175mm W X 409mm D X 360mm H
- From 24.6 lb (11.2 kg), weight may vary by configuration
- Toolless cover removal
- Toolless disk, optical drive removal
- Bay 1: 5.25", 1.6" high, access, standard optical
- Bay 2: 5.25", 1.6" high, access, open
- Bay 3: 3.5", 1" high, no access, standard disk
- Bay 4: 3.5", 1" high, no access, optional disk
- Bay 5: 3.5", 1" high, full, access, optional USM portable disk
- Slot 1: half-length, full-height, PCI Express x16 Ver 2.0
- Slot 2: half-length, full-height, PCI Express x1 Ver 2.0
- Slot 3: half-length, full-height, PCI Express x1 Ver 2.0
- Slot 4: half-length, full-height, PCI Express x1 Ver 2.0
- Graphics adapter in slot on some models, some graphics adapters occupy two slots
- **TV tuner / USB 3.0 card in slot or slot occupied by graphics adapter on some models**

**Limited Warranty**
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts, 8 am - 5 pm)
- Service upgrade options (in eligible locations):
  - 2-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-8686

See footnotes for important warranty information

US model(s) announced November 8, 2012

© Lenovo (ROAT2-2) November 2012
### IdeaCentre™ K430 (3109)

#### Processor
- Intel® Core™ i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz), non-parity, four 240-pin DIMM sockets
- Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), in LGA1155 socket

#### Implementation
- Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Realtek Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out
- Four USB 2.0, ethernet (RJ-45), monitor (VGA, HDMI, DVI-I on selected models)
- Two USB 3.0, microphone (3.5mm), headphone (3.5mm)

#### Graphics
- Some: NVIDIA® GeForce® GT 620, PCI Express® x16, 1GB memory, DirectX 11, one VGA connector, one DVI-I connector, one HDMI connector, HDCP-compliant
- Some: NVIDIA® GeForce® GT 545, PCI Express x16, 1.5GB memory, DirectX 11, one VGA connector, one DVI-I connector, one HDMI connector, HDCP-compliant

#### Memory
- 32GB max, dual-channel capable, non-parity, four 240-pin DIMM sockets
- System automatically clocks down for processors with 1333MHz memory controller

#### Front ports
- Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
- Four USB 2.0, ethernet (RJ-45), monitor (VGA, HDMI, DVI-I on selected models)

#### Rear audio ports
- Line-in (3.5mm), line-out (Front out L/R) (3.5mm), microphone-in (3.5mm), Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out

#### Audio
- High Definition (HD) audio, ALC892 codec

#### Speaker
- None

#### Wireless
- 11b/g/n wireless®, PClie Half Mini Card, Realtek® RTL8188CE

#### Ethernet
- Gigabit ethernet on planar, Realtek RTL8111E

#### Modem
- None

#### TV tuner
- None

#### Remote control
- None

#### Keyboard/Mouse
- Full-size keyboard (USB connector), Fn keys, black
- Optical Wheel Mouse (USB connector), black

#### Power supply
- 2TB SATA 6.0Gb/s, 7200 rpm
- Hard disk dock only, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable

#### System control
- RAID 0 support
- Multi-Burner DL DVD±RW GT 545, BD burner (±RW GT 620, BD burner)
- CyberLink Power2Go (DVD±RW, BD burner)
- Microsoft Office 2010 preloaded; purchase product key to activate
- Windows Live Essentials

#### Machine
- Metal Gray (metal brush effect)
- Toolless cover removal
- Toolless disk, optical drive removal
- Toolless cover removal
- Toolless disk, optical drive removal
- Toolless cover removal
- Toolless disk, optical drive removal

#### Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts, 8 am - 5 pm)
- Service upgrade options (in eligible locations): 2-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1552)
- 3-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1553)
- 24x7* toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information
## IdeaCentre™ K430 (Windows 8)

### Processor

Intel® Core™ i5-3330P Processor (4 cores / 4 threads, 3.10 GHz, 6M Cache).

- Turbo Boost Technology 2.0 (up to 3.30 GHz), DDR3 memory controller (up to 1600MHz)
- Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz)

### Implementation

Processor in LGA1155 socket

### Memory

32GB max*, dual-channel capable, DDR3 memory controller (up to 1600MHz)

- Turbo Boost Technology 2.0 (up to 3.30 GHz), DDR3 memory controller (up to 1600MHz)
- Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz)

### Graphics

Some:

- NVIDIA® GeForce GT 620, PCI Express x16, 1GB DDR3, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant

Some:

- NVIDIA® GeForce GT 640, PCI Express x16, 2GB DDR3, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant

- AMD Radeon™ HD 7750, PCI Express x16, 1GB GDDR5, DirectX® 11, one DisplayPort™ connector, one DVI-I connector, one HDMI connector, HDCP

### Chipset

Intel® Z75 Express Chipset

### SATA disk

1TB (500GB x 2, preset RAID 0) or 2TB (2TB x 1), SATA 6.0Gb/s, 7200 rpm

### mSATA SSD

None

### USB mSATA port

None

### Front ports

- Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
- Four USB 2.0, monitor* (VGA, HDMI, DVI-I, or DisplayPort, depends on graphics card)

### Rear audio ports

- Line-in (3.5mm), line-out [Front out L/R] (3.5mm), microphone-in (3.5mm), Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out

### Audio

High Definition (HD) audio, ALC892 codec

### Speaker

None

### Wireless

11b/g/n wireless*, Pcie Half Mini Card, Realtek® RTL8188CE

### Ethernet

Gigabit ethernet on planar, Realtek RTL8111E

### Modem

None

### TV tuner

None

### Remote control

None

### Keyboard/Mouse

Full-size keyboard (USB connector), Fn keys, black Optical Wheel Mouse (USB connector), black

### Power supply

280 watts, universal, manual switch

### Machine

- Metal Gray (metal brush effect)
- 6.89” W X 16.10” D X 14.17” H; 175mm W X 409mm D X 360mm H
- From 24.6 lb (11.2 kg), weight may vary by configuration
- Toolless cover removal
- Toolless disk, optical drive removal

### Bay

- Bay 1: 5.25”, 1.6” high, access, standard optical
- Bay 2: 5.25”, 1.6” high, access, open
- Bay 3: 3.5”, 1” high, no access, standard disk
- Bay 4: 3.5”, 1” high, access, optical USM portable disk

### Slot

- Slot 1: half-height, full-height, PCI Express x16 Ver.3.0
- Slot 2: half-height, full-height, PCI Express x16 Ver.3.0
- Slot 3: half-height, full-height, PCI Express x16 Ver.3.0
- Slot 4: half-height, full-height, PCI Express x16 Ver.2.0

### Limited Warranty

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts, 8 am - 5 pm)
- Service upgrade options (in eligible locations):^2
  - 2-year Lenovo Onsite Repair
  - 3-year Lenovo Onsite Repair
- 24x7 toll-free support for warranty issues during the warranty period^3 via 877-453-6886

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See footnotes for important warranty information

US model(s) announced November 28, 2012 © Lenovo

(ROAT1-3) November 2012
### IdeaCentre™ K430 (Windows 8) - web only models

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<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Power supply</th>
<th>Keyboard/ Mouse</th>
<th>Win8 preload</th>
<th>Avail date (mm/yy)</th>
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<td>5x4</td>
<td>i7-3770</td>
<td>4GBRx4</td>
<td>2TB, 7200 rpm</td>
<td>None</td>
<td>BD burner</td>
<td>HD 7570 2G</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>625W, 2.4G</td>
<td>Win8 64</td>
<td>02/13</td>
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<td>57312225</td>
<td>5x4</td>
<td>i7-3770</td>
<td>4GBRx4</td>
<td>2TB, 7200 rpm</td>
<td>500GB</td>
<td>DVD+RW</td>
<td>GT 630 2G</td>
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<td>None</td>
<td>11b/g/n</td>
<td>625W, 2.4G</td>
<td>Win8 64</td>
<td>03/13</td>
<td></td>
</tr>
</tbody>
</table>

- Power Control Switch; color-coded three-speed switch to easily choose between turbo, auto, and cool running modes
- Tool-free chassis design for easy upgrading and maintenance
- Optional Universal Storage Module portable HDD and dock
- Lenovo Rescue System provides OneKey recovery without booting into Windows

### Processor
Intel® Core™ i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz)

### Implementation
Processor in LGA1155 socket

### Memory
32GB max, dual-channel capable, PC3-12800 1600MHz DDR3, non-parity, four 240-pin DIMM sockets

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

### Graphics
Some: AMD Radeon HD 7570, PCI Express x16, 2GB memory, DirectX11, occupy two slots, one VGA connector, one HDMI connector, HDCP-compliant
Some: NVIDIA GeForce GT 630, PCI Express x16, 2GB DDR3, DirectX11, one VGA connector, one HDMI connector, HDCP-compliant

### SATA disk
2TB (2TB x 1), SATA 6.0Gb/s, 7200 rpm

### mSATA SSD
None

### USM portable disk
Some: 500GB portable hard disk, supports SATA Universal Storage Module™ (USM) standard, includes USB 3.0 adapter and USB 3.0 cable

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

### SATA optical
Blu-ray™ burner, Blu-ray and DVD disk recordable

### SATA cables
Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)

### Media reader
9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/II, CF II, MD)

### Chipset
Intel Z75 Express Chipset

### Front ports
Two USB 3.0, microphone (3.5mm), headphone (3.5mm)

### Rear ports
Four USB 2.0, ethernet (RJ-45), monitor* (VGA, HDMI, DVI-I, or DisplayPort, depends on graphics card)

### Rear audio ports
Line-in (3.5mm), line-out (Front out L/R) (3.5mm), microphone-in (3.5mm), Cen/LFE (3.5mm), Surround out L/R (3.5mm), SPDIF out

### Audio
High Definition (HD) audio, ALC892 codec

### Speaker
None

### Wireless
Some: 11b/g/n wireless*, PCIe Half Mini Card, Realtek® RTL8188C

### Ethernet
Gigabit ethernet on planar, Realtek® RTL8111E

### Modem
None

### TV tuner
None

### Remote control
None

### Keyboard
2.4G wireless full-size keyboard, 6-row, black

### Mouse
2.4G wireless mouse, black

### Power supply
625 watts, universal, manual switch

### Machine
- Metal Gray (metal brush effect)
- 6.89" W x 16.10" D x 14.17" H; 175mm W X 409mm D X 360mm H
- From 24.6 lb (11.2 kg), weight may vary by configuration
- Toolless cover removal
- Toolless disk, optical drive removal

### Bay
Bay 1: 5.25", 1.6” high, access, standard optical
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Bay 3: 3.5", 1” high, no access, standard disk
Bay 4: 3.5", 1” high, no access, optional disk
Bay 5: 3.5", 1” high, access, optional USM portable disk

### Slot
Slot 1: half-length, full-height, PCI Express x16 Ver 3.0*
Slot 2: half-length, full-height, PCI Express x16 Ver 2.0**
Slot 3: half-length, full-height, PCI Express x16 Ver 3.0*
Slot 4: half-length, full-height, PCI Express x16 Ver 2.0**

* Graphics adapter in slot on some models, some graphics adapters occupy two slots
** TV tuner in slot or slot occupied by graphics adapter on some models

### Preloaded operating system
- Windows® 8 64-bit

### Preloaded applications
- Lenovo Rescue System
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- McAfee® Internet Security (30-Day Trial)
- Power Control Switch
- Adobe® Reader®
- Cyberlink PowerDVD
- Cyberlink Power2Go
- Microsoft Office preloaded; purchase product key to activate
- Intel AppUp®
- AccuWeather
- Evernote
- Kindle
- Lenovo Support
- Lenovo Companion

### Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts, 8 am - 5 pm)
- Service upgrade options (in eligible locations): 2-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

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US model(s) announced March 6, 2013; previous model(s) on February 21, 2013

(ROAT1-4) March 2013
### IdeaCentre K430 (3109) - web only models

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Max turbo (GHz)</th>
<th>Memory</th>
<th>SATA disk</th>
<th>USM portable disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Power supply</th>
<th>Keyboard/ Mouse</th>
<th>Win 7 preload</th>
<th>Avail date (mm/yy)</th>
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<tbody>
<tr>
<td>3109-2XU</td>
<td>5x4</td>
<td>i3-2120</td>
<td>3.30</td>
<td>2GBx3</td>
<td>1TB</td>
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<td>DVD+iRW: HD 7450 1G</td>
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<td>None</td>
<td>None</td>
<td>280W USB</td>
<td>Prem 64</td>
<td>07/12</td>
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<tr>
<td>3109-3AU</td>
<td>5x4</td>
<td>i5-2320</td>
<td>3.00</td>
<td>4GBx4</td>
<td>2TB</td>
<td>None</td>
<td>BD burner: GT 620 1G</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>280W USB</td>
<td>Prem 64</td>
<td>07/12</td>
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<td>3109-3CU</td>
<td>5x4</td>
<td>i5-2320</td>
<td>3.00</td>
<td>4GBx4</td>
<td>2TB</td>
<td>None</td>
<td>BD burner: GT 545 1.5G</td>
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<td>280W USB</td>
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<td>07/12</td>
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<td>3109-2SU</td>
<td>5x4</td>
<td>i7-3770</td>
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<td>BD burner: GT 7570 2G</td>
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<td>280W USB</td>
<td>Pro 64</td>
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<td>3109-3XU</td>
<td>5x4</td>
<td>i3-2120</td>
<td>3.30</td>
<td>2GBx3</td>
<td>1TB</td>
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</tr>
</tbody>
</table>

#### Processor
- Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz)
- Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6M Cache), integrated Intel HD Graphics 2000, DDR3 memory controller (up to 1333MHz)
- Intel Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz)

#### Implementation
- Processor in LGA1155 socket
- DDR3 memory controller (up to 1600MHz)
- Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000
- Core i7-3770 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz)

#### Graphics
- NVIDIA® GeForce® GT 620, PCI Express x16, 1GB memory, DirectX 11, one VGA connector, one HDMI connector, HDCP-compliant
- NVIDIA GeForce GT 545, PCI Express x16, 1.5GB memory, DirectX 11, one VGA connector, one DVI-I connector, one HDMI connector, HDCP-compliant
- AMD Radeon™ HD 7450, PCI Express x16, 1GB memory, DirectX 11, occupy two slots, one VGA connector, one HDMI connector, HDCP-compliant
- AMD Radeon™ HD 7570, PCI Express x16, 2GB memory, DirectX 11, occupy two slots, one VGA connector, one HDMI connector, HDCP-compliant

#### Chipset
- Intel Z75 Express Chipset

#### Memory
- 32GB max, dual-channel capable, PC1-12800 1600MHz DDR3, non-parity, four 240-pin DIMM sockets
- System automatically clocks down for processors with 1333MHz memory controller

#### SATA disk
- 1TB or 2TB, SATA 6.0Gb/s, 7200 rpm
- mSATA SSD: None
- USM portable disk: None

#### Media reader
- 9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)

#### Power Control Switch
- Color-coded three-speed switch to easily choose between turbo, auto, and cool running modes
- Tool-free chassis design for easy upgrading and maintenance

#### Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts, 8 am - 5 pm)
- Service upgrade options (in eligible locations):
  - 2-year Lenovo Onsite Repair
  - 9X5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair
  - 9X5 Next Business Day (78Y1553)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

© Lenovo

US model(s) announced December 13, 2012; previous model(s) on July 11, 2012

(ROAT1-2) December 2012
Lenovo IdeaCentre A520
with optional keyboard and mouse

Lenovo IdeaCentre A520
(Some ports only for selected models)
### IdeaCentre™ A520 (Windows 8)

**Personal Systems Reference (PSREF)**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-touch screen</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>mSATA SSD</th>
<th>SATA optical</th>
<th>PCIe Mini Card</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>Keyboard/ Mouse</th>
<th>Win8 preload</th>
<th>Avail date (mm/yy)</th>
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</thead>
<tbody>
<tr>
<td>57312891</td>
<td>i3-3130M</td>
<td>4GBx1</td>
<td>23&quot; FHD Multi</td>
<td>Intel HD 4000</td>
<td>1TB</td>
<td>None</td>
<td>DVD±RW</td>
<td>11b/g/n</td>
<td>802.11</td>
<td>None</td>
<td>None</td>
<td>120W</td>
<td>2.4G</td>
<td>Win8 64</td>
<td>02/13</td>
</tr>
</tbody>
</table>

- Ultra slim 23" All-In-One PC with a frameless display
- 10-point multi-touch technology for greater accuracy
- Lenovo® Rescue System provides OneKey recovery without booting into Windows
- Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)
- Widesly adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort

**Processor**

Intel® Core™ i3-3130M processor (2 cores / 4 threads, 2.60 GHz, 3MB cache), DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 4000

**Memory**

8GB max1 / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

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

**SATA optical**

DVD burner, dual-layer support, not removable, 12.7mm high, tray-in

**SATA disk**

1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high

**SATA controller**

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

**Widescreen display**

23" (584.2mm) Full HD (1920x1080) TFT color. VibrantView (glossy), LED backlight, Frameless design, IPS panel, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, Viewing angle: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical

**Multi-touch Camera**

Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch HD 720p Camera on top of screen, fixed focus, with digital microphone

**Camera Controls**

Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down

**Graphics**

Intel HD Graphics 4000, integrated in processor, uses main memory, DirectX® 11

**Chipset**

Mobile Intel HM76 Express Chipset

**Multicard reader**

6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)

**Ports**

- Rear: Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some models, microphone (3.5 mm), headphone (3.5 mm)
- Side: One USB 3.0, HDMI IN, HDMI OUT

**PCIe Mini Card**

Two PCI Express Mini Card slots

**TV tuner**

11b/g/n wireless®, Realtek® RTL8188CUS, via internal USB

**Bluetooth**

Bluetooth 4.0 wireless

**Modem**

None

**Ethernet**

Gigabit ethernet on planar, Realtek® RTL8111F

**Audio support**

High Definition (HD) Audio, RealTek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)

**Security**

Power-on password, administrator password

**Keyboard**

2.4G wireless Ultra Slim keyboard, 6-row, silver

**Mouse**

2.4G wireless Laser Wheel Mouse, 1200dpi, silver

**Remote control**

None

**Dimensions**

(WxHxD): 22.35" x 17.4" x 8.9"; 567.8mm x 441.5mm x 224.8mm

Monitor only (WxHxD): 22.35" x 13.9" x 0.96"; 567.8mm x 353.0mm x 24.5mm

Base only (WxHxD): 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm

**Weight**

21.60 lb (9.8kg), weight may vary by configuration

**Chassis**

Silver color; metal shell (Aluminium base cover and hinge), plastic back cover

**Stand**

Adjustable stand (between -5° and 90°)

**Wall mount**

None

**Security lock**

Kensington® Security slot on the rear of base

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**Limited Warranty**

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)¹
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations)²
  - 2-year Lenovo Onsite Repair
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1552)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

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See footnotes for important warranty information

US model(s) announced February 21, 2013

© Lenovo (CUBA1-1) February 2013
Ultra slim 23” All-In-One PC with a frameless display
10-point multi-touch technology for greater accuracy
Lenovo® Rescue System provides OneKey recovery without booting into Windows
Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)
Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Core™ i3-2328M processor (2 cores / 4 threads, 2.20 GHz, 3MB cache), DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 3000</th>
</tr>
</thead>
</table>
| Memory    | 8GB max® / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets  *
* System automatically clocks down for processors with 1333MHz DDR3 memory controller |
| SATA Blu-ray™ | Blu-ray disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, tray-in |
| SATA disk  | 500GB (5400 rpm) / SATA 3.0Gb/s, 2.5” wide, 9.5mm high |
| SATA controller | Serial ATA, SATA 6.0Gb/s, integrated in chipset |
| mSATA™ SSD | None |
| Widescreen display | 23” (584.2mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design, IPS panel, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, Viewing angle: 178° (+/- 89°) horizontal, 178° (+/- 89°) vertical |
| Multi-touch | Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch |
| Camera    | HD 720p Camera on top of screen, fixed focus, with digital microphone |
| Controls  | Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down |
| Graphics  | Intel HD Graphics 3000, integrated in processor, uses main memory, DirectX® 10.1 |
| Chipset   | Mobile Intel HM76 Express Chipset |
| Multicard reader | 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC) |
| Ports     | Rear: Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some models  Side: One USB 3.0, USB 2.0, HDMI in, HDMI out |
| PCIe Mini Card | Two PCI Express Mini Card slots 11b/g/n/ac TV tuner None Bluetooth™ | Wireless, Realtek® RTL8188CUS, via internal USB Bluetooth 4.0 wireless None |
| Modem     | None |
| Ethernet  | Gigabit ethernet on planar, Realtek® RTL8111F |
| Audio support | High Definition (HD) Audio, RealTek ALC2722 codec / Dolby® Home Theater v4 audio enhancement, stereo speakers (3 watt x 2) |
| Security  | Power-on password, administrator password |
| Keyboard  | 2.4G wireless Ultra Slim keyboard, 6-row, silver |
| Mouse     | 2.4G wireless Laser Mouse, 1200dpi, silver |
| Remote control | None |
| Dimensions | (WxHxD): 22.35” x 17.4” x 8.9”; 567.8mm x 441.5mm x 224.8mm  Monitor only (WxHxD): 22.35” x 13.9” x 0.96”; 567.8mm x 353.0mm x 24.5mm Base only (WxHxD): 13.3” x 1.3” x 8.3”; 337mm x 32mm x 210.8mm |
| Weight² | 21.60 lb (9.8kg), weight may vary by configuration |
| Chassis   | Silver color; metal shell (Aluminum base cover and hinge), plastic back cover |
| Stand     | Adjustable stand (between -5° and 90°) |
| Wall mount | None |
| Security lock | Kensington® Security slot on the rear of base |

Limited Warranty¹²
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts), 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)
  - 24x7™ toll-free support for warranty issues during the warranty period via 877-453-6686

Preloaded operating system²⁰
- Windows® 8 64-bit

Preloaded applications²⁴ (only some listed)
- Lenovo® Rescue System
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- Lenovos Eye Business System
- CyberLink YouCam
- Dolby Home Theater
- McAfee® Internet Security (30-Day Trial)
- Cyberlink Power2Go (DVD±RW, BD player)
- Adobe® Reader®
- Nitro PDF
- Cyberlink PowerDVD® (DVD±RW, BD player)
- Touch Games (Touch models)
- Education Portal
- Microsoft Office preloaded: purchase product key to activate
- Intel AppUp®
- AccuWeather
- eBay
- Evernote
- Amazon Kindle
- Lenovo Support
- Rara Streaming
- Lenovo Companion

120-watt or 150-watt AC adapter ENERGY STAR® qualified RoHS-compliant

See footnotes for important warranty information
US model(s) announced March 27, 2013 © Lenovo (CUBA1-2) March 2013
### IdeaCentre™ A720 (2564)

**Processor**: Intel® Core™ i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000

**Intel Core i7-3610QM Memory**: DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.30GHz), integrated Intel HD Graphics 4000

**Memory**: 8GB max / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

**SATA Blu-ray™**: Blu-ray disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, slot-in

**SATA disk**: 500GB (5400 rpm) or 750GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high

**SATA controller**: Serial ATA, SATA 6.0Gb/s, integrated in chipset

**Widescreen display**: Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design (VA (Vertical Alignment) technology, 300 nits, 16:9 aspect ratio, 5000:1 contrast ratio

**Multi-touch Camera**: HD 720P Camera on top of screen, supports H.264 encoding, Skype™ certified, fixed focus, with digital microphone

**Controls**: Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down

**Graphics**: NVIDIA GeForce GT 630M, PCI Express x16, 1GB or 2GB DDR3 memory, DirectX® 11, NVIDIA CUDA™ technology

**Chipset**: Mobile Intel HM76 Express Chipset

**Multicard reader**: 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)

**Ports**: Rear: Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some models, microphone (3.5 mm), headphone (3.5 mm)

**Side**: One USB 3.0, HDMI in, HDMI out

**PCle Mini Card**: Two PCIe Express Mini Card slots

**11b/g/n wireless**: Realtek® RTL8188CUS, via internal USB

**TV tuner**: ATSC tuner, supports analog and digital signal, PCIe Mini Card

**Bluetooth™**: Bluetooth 2.1 wireless + EDR

**Modem**: None

**Ethernet**: Gigabit ethernet on planar, Realtek® RTL8111F

**Audio support**: HD Audio, RealTek ALC272 codec / Dolby® Home Theater v4 audio enhancement, stereo speakers (3 watt x 2)

**Security**: Power-on password, administrator password

**KeyBoard**: 2.4G wireless Ultra Slim keyboard, 6-row, silver

**Mouse**: 2.4G wireless Laser Mouse, 1200dpi, silver

**Remote control**: MCE remote control, via IR

**Dimensions**: 25.9” x 19.3” x 8.9”; 658mm x 490.5mm x 224.8mm

**Weight**: 25.52 lb (11.6kg), weight may vary by configuration

**Chassis**: Silver color; metal shell (Aluminum base and hinge), plastic back cover

**Stand**: Adjustable stand (between -5° and 90°)

**Wall mount**: None

**Security lock**: Kensington® Security slot on the rear of base

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**Limited Warranty**:

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)
- 8 am - 5 pm Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 2-year Lenovo Onsite Repair
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686
### IdeaCentre A720 (Windows 8)

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-touch screen</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>mSATA SSD</th>
<th>SATA optical</th>
<th>PCIe Mini Card</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>Keyboard/ Mouse</th>
<th>Win8 preload</th>
<th>Avail date (mm/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>57308559</td>
<td>Intel Core i5-3210M processor (2 cores / 4 threads, 2.50 GHz, 3MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000</td>
<td>4x2GB</td>
<td>27&quot; FHD</td>
<td>Multi</td>
<td>GT 630M 1GB</td>
<td>750GB</td>
<td>None</td>
<td>BD player</td>
<td>11b/g/n</td>
<td>None</td>
<td>None</td>
<td>150W</td>
<td>2.4G</td>
<td>Win8 64</td>
<td>11/12</td>
</tr>
<tr>
<td>57308558</td>
<td>Intel Core i5-3230M processor (2 cores / 4 threads, 2.60 GHz, 3MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz), integrated Intel HD Graphics 4000</td>
<td>2x2GB</td>
<td>27&quot; FHD</td>
<td>Multi</td>
<td>GT 630M 1GB</td>
<td>1TB</td>
<td>None</td>
<td>BD player</td>
<td>11b/g/n</td>
<td>None</td>
<td>None</td>
<td>150W</td>
<td>2.4G</td>
<td>Win8 64</td>
<td>11/12</td>
</tr>
<tr>
<td>57313504</td>
<td>Intel Core i7-3630QM processor (4 cores / 8 threads, 2.40GHz, 6MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.40GHz), integrated Intel HD Graphics 4000</td>
<td>4x2GB</td>
<td>27&quot; FHD</td>
<td>Multi</td>
<td>GT 630M 1GB</td>
<td>750GB</td>
<td>None</td>
<td>BD player</td>
<td>11b/g/n</td>
<td>None</td>
<td>None</td>
<td>150W</td>
<td>2.4G</td>
<td>Win8 64</td>
<td>02/13</td>
</tr>
</tbody>
</table>

- **Ultra slim 27" All-In-One PC with a frameless display; from just 24.5mm thin**
- **10-point multi-touch technology for greater accuracy**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen function (from -5° to 90°) so you can use the touch-screen function in perfect comfort**
* Measured at thinnest point

---

### Processor

- **Intel® Core™ i5-3210M processor** (2 cores / 4 threads, 2.50 GHz, 3MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.10GHz), integrated Intel HD Graphics 4000

### Memory

- 8GB max
- *PC3-12800 1600MHz DDR3*, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- System automatically clocks down for processors with 1333MHz DDR3 memory controller

### SATA Blu-ray™

- Blu-ray disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, slot-in

### SATA disk

- 750GB (5400 rpm) or 1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high

### SATA controller

- Serial ATA, SATA 6.0Gb/s, integrated in chipset
- None

### Widescreen display

- 27" (685.8mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, Frameless design, VA (Vertical Alignment) technology, 300 nits, 16:9 aspect ratio, 5000:1 contrast ratio

### Multi-touch Camera

- Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch

### Controls

- Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down

### Graphics

- **NVIDIA GeForce® GT 630M**, PCI Express® x16, 2GB
- **NVIDIA CUDA® technology**

### Chipset

- Mobile Intel HM76 Express Chipset
- 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDSD)

### Ports

- **Rear**: Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some models, microphone (3.5 mm), headphone (3.5 mm)
- **Side**: One USB 3.0, HDMI in, HDMI out

### PCIe Mini Card

- Two PCIe Express Mini Card slots
- 11b/g/n wireless®, Realtek® RTL8188CUS, via internal USB
- None
- Bluetooth® 4.0 wireless
- None
- Gigabit ethernet on planar, Realtek® RTL8111F
- High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Home Theater® v4 audio enhancement, stereo speakers (3 watt x 2)
- Power-on password, administrator password
- 2.4G wireless Ultra Slim keyboard, 6-row, silver
- 2.4G wireless Laser Wheel Mouse, 1200dpi, silver

### Dimensions

- (WxHxD): 25.9" x 19.3" x 8.9"; 658mm x 490.5mm x 224.8mm
- Base only (WxHxD): 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm
- Weight: 25.52 lb (11.6kg), weight may vary by configuration
- Silver color; metal shell (Aluminium base and hinge), plastic back cover
- Adjustable stand (between -5° and 90°)

### Security lock

- Kensington® Security slot on the rear of base

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### Limited Warranty

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts², 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations):²
  - 2-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
  - 2x12h toll-free support for warranty issues during the warranty period¹ via 877-453-6686

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See footnotes for important warranty information

* US model(s) announced February 21, 2013; previous model(s) on November 28, 2012

COBR1-3 February 2013
### IdeaCentre™ A720 (2564) - web only models

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-Touch screen</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>mSATA SSD</th>
<th>SATA optical</th>
<th>PCIe Mini Card</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
<th>Avail date</th>
<th>mm/yy</th>
</tr>
</thead>
<tbody>
<tr>
<td>2564-5CU</td>
<td>i7-3610QM</td>
<td>4GBx2</td>
<td>27&quot; FHD Multi</td>
<td>GT 630M 2GB</td>
<td>1TB</td>
<td>BD player</td>
<td>11b/g/n</td>
<td>150W</td>
<td>2.4G</td>
<td>Prem 64</td>
<td>06/12</td>
<td></td>
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<tr>
<td>2564-6CU</td>
<td>i7-3610QM</td>
<td>4GBx2</td>
<td>27&quot; FHD Multi</td>
<td>GT 630M 2GB</td>
<td>1TB</td>
<td>BD player</td>
<td>11b/g/n</td>
<td>150W</td>
<td>2.4G</td>
<td>Prem 64</td>
<td>06/12</td>
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</tr>
<tr>
<td>2564-7CU</td>
<td>i7-3610QM</td>
<td>4GBx2</td>
<td>27&quot; FHD Multi</td>
<td>GT 630M 2GB</td>
<td>64GB</td>
<td>BD player</td>
<td>11b/g/n</td>
<td>150W</td>
<td>2.4G</td>
<td>Prem 64</td>
<td>06/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2564-3CU</td>
<td>i7-3610QM</td>
<td>4GBx2</td>
<td>27&quot; FHD Multi</td>
<td>GT 630M 1GB</td>
<td>1TB</td>
<td>DVD±RW</td>
<td>11b/g/n</td>
<td>150W</td>
<td>2.4G</td>
<td>Prem 64</td>
<td>07/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Ultra slim 27" All-In-One PC with a frameless display; from just 24.5mm thin*
- 10-point multi-touch technology for greater accuracy
- Lenovo® Rescue System provides OneKey recovery without booting into Windows
- Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)
- Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort
- These system are Microsoft® Office 2010 Product Key Ready (O10PKR)
* Measured at thinnest point

### Processor

- Intel® Core™ i7-3610QM processor (4 cores / 8 threads, 2.30 GHz, 6MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.30GHz), integrated Intel HD Graphics 4000

### Memory

- 8GB max*/ PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
  
  * System automatically clocks down for processors with 1333MHz DDR3 memory controller

### SATA optical

- Some: DVD burner, dual-layer support, not removable, 12.7mm high, slot-in
- Some: Blu-ray™ disc reader (no Blu-ray media burning), DVD recordable, not removable, 12.7mm high, slot-in

### Sata disk

- 1TB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide, 9.5mm high

### Sata controller

- Serial ATA, SATA 6.0Gb/s, integrated in chipset
- Some: 64GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot

### Graphics

- NVIDIA GeForce® GT 630M, PCI Express® x16, 1GB or 2GB DDR3 memory, DirectX® 11, NVIDIA CUDA™ technology

### Chipset

- Mobile Intel HM76 Express Chipset
- 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC, SDXC)

### Ports

- Rear: Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some models
- Microphone (3.5 mm), headphone (3.5 mm)

### Security

- Power-on password, administrator password
- Security slot on the rear of base

### Remote control

- MCE remote control

### Dimensions

- (WxHxD): 25.9" x 19.3" x 8.9"; 658mm x 490.5mm x 224.8mm
- Monitor only: (WxHxD): 25.9" x 15.8" x 0.98"; 658mm x 402mm x 24.9mm
- Base only (WxHxD): 13.3" x 1.3" x 8.3"; 337mm x 32mm x 210.8mm

### Weight

- 25.52 lb (11.6kg), weight may vary by configuration

### Warranty

- Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)
- Sale of 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 2-year Lenovo Onsite Repair
  - 3-year Lenovo Onsite Repair
  - 24x7™ free-service for warranty issues during the warranty period via 877-453-6686

### Service and Support

- Tech Support: 877-453-6686
- Customer Service: 877-453-6686
- Next Business Day: 9x5 Next Business Day (78Y1552)
- 1-year parts and labor: 9x5 Next Business Day (78Y1553)
- 9x5 TOLL FREE: 24x7™ toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

* US model(s) announced July 12, 2011; previous model(s) on June 6, 2012

© Lenovo (COBR1-1) July 2012
**Ultra slim 27” All-In-One PC with a frameless display; from just 24.5mm thin**

- **10-point multi-touch technology for greater accuracy**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Dolby Home Theater v4 audio enhancement with two stereo speakers (3W x 2)**
- **Widely adjustable screen angle (from -5° to 90°) so you can use the touch-screen function in perfect comfort**

*Measured at thinnest point*

---

### IdeaCentre™ A720 (Windows 8) - web only models

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-touch screen</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>mSATA SSD</th>
<th>SATA optical</th>
<th>PCIe Mini Card</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>Keyboard/ mouse</th>
<th>Win8 preload</th>
<th>Avail date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>57312175</td>
<td>Intel® Core™ i7-3630QM processor (4 cores / 8 threads, 2.40GHz, 6MB cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.40GHz), integrated Intel HD Graphics 4000</td>
<td>8GB max / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
<td>Frameless design, VA (Vertical Alignment) technology, 300 nits, 16:9 aspect ratio, 5000:1 contrast ratio</td>
<td>Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch</td>
<td>HD 720P Camera on top of screen, supports H.264 encoding, Skype™ certified, fixed focus, with digital microphone</td>
<td>Serial ATA, SATA 3.0Gb/s, integrated in chipset</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>BD player</td>
<td>ATSC</td>
<td>Remote</td>
<td>1500W</td>
<td>2.4G</td>
<td>Win8 64</td>
</tr>
</tbody>
</table>

---

**Preloaded operating system**
- Windows® 8 64-bit

**Preloaded applications** (only some listed)
- Lenovo® Rescue System
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- CyberLink YouCam
- Dolby Home Theater
- McAfee® Internet Security (30-Day Trial)
- Cyberlink Power2Go (DVD±RW, BD player)
- Adobe Reader®
- Nitro PDF
- Cyberlink PowerDVD® (BD player)
- Touch Games (Touch models)
- Education Portal
- Microsoft Office preloaded; purchase product key to activate
- Intel AppUp®
- AccuWeather
- eBay
- Evernote
- Skype
- Amazon Kindle
- Lenovo Support
- Rara Streaming
- Lenovo Companion

---

**Limited Warranty**

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts):
  - 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations):
  - 2-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6868

See footnotes for important warranty information

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Note: Specifications subject to change without notice.
Horizon 27 Table PC (Desktop mode)

Horizon 27 Table PC

Horizon 27 Table PC with unique Aura UI (Table PC mode)

Horizon 27 Table PC with optional strikers (Table PC mode)

Horizon 27 Table PC
Adjustable stand (between 15° and 90°)

Optional accessories (e-dice, striker, and joystick)
<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-touch screen</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>mSATA SSD</th>
<th>PCle Mini Card</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Battery</th>
<th>E-dice / Joystick / Striker</th>
<th>Win8 preload</th>
<th>Avail date (mm/yyyy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>57315058</td>
<td>i5-3337U</td>
<td>4GBx2</td>
<td>27&quot; FHD 10-point</td>
<td>GT 620M 2GB</td>
<td>1TB</td>
<td>None</td>
<td>1GB/g/n</td>
<td>None</td>
<td>8-cell</td>
<td>2.4G x1 / x2 / x2</td>
<td>Win8 64</td>
<td>05/13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>57315077</td>
<td>i7-3537U</td>
<td>4GBx2</td>
<td>27&quot; FHD 10-point</td>
<td>GT 620M 2GB</td>
<td>1TB</td>
<td>None</td>
<td>1GB/g/n</td>
<td>None</td>
<td>8-cell</td>
<td>2.4G x1 / x4 / x4</td>
<td>Win8 64</td>
<td>05/13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 27" multi-mode computer that's both a Table PC and a Desktop
- Aura – an unique multi-user interface that allows two or more people to access different photos, videos, and music on the same screen
- Enjoy greater accuracy and ease of use with the 10-point multi-touch display, optimized for Windows 8
- Optional unique Table PC accessories (Joystick, Striker, and E-dice) – a completely new digital gaming experience combining the physical gaming accessory with the on-screen action in games like Air Hockey, Raiding Company, and Tycoon
- Optional battery providing up to 2hrs battery life so you can use the device anywhere at home without a power cable
- Dolby HomeTheater v4 audio enhancement with two stereo speakers (3w x 2)
- Widely adjustable screen angle (from 15° to 90°) so you can use the touch-screen function in perfect comfort

### Preloaded operating system
- Windows 8 64-bit

### Preloaded applications (only some listed)
- Lenovo Rescue System
- Lenovo Cloud Storage by SugarSync
- Lenovo Eye Distance System
- Lenovo App Shop
- CyberLink YouCam
- McAfee® Internet Security (30-Day)
- Game Portal
- Education Portal
- Microsoft Office preloaded; purchase product key to activate
- Aura
- Lenovo Tycoon
- Lenovo Texas Hold'em
- Lenovo Roulette
- Lenovo Air Hockey
- Lenovo Fishing Joy
- Lenovo Color Corner
- Lenovo Best Guess
- Angry Birds
- Snowflake
- Ubisoft® Raiding Company
- Ubisoft King of Opera
- Ubisoft Draw Race 2 HD
- Open Labs StageLight
- FilmOn LiveTV
- BlueStacks App Player
- EA® Monopoly
- Lenovo Support
- Lenovo Companion

### Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts), 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 2-year Lenovo Onsite Repair
  - 3-year Lenovo Onsite Repair

### ENERGY STAR® qualification
- RoHS-compliant

See footnotes for important warranty information
Lenovo IdeaCentre B305
with optional bluetooth keyboard and mouse

Lenovo IdeaCentre B305
AV IN and TV IN on some models

Lenovo IdeaCentre B305
with optional PS/2 keyboard and USB mouse
### IdeaCentre™ B305 (4031) - Windows 7

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Ghz</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-Touch screen</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>PCIe Mini Card 902.11</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4031-1FU</td>
<td>Athlon II X2 235e</td>
<td>2.70</td>
<td>4GB</td>
<td>21.5&quot; FHD</td>
<td>Multi</td>
<td>3000</td>
<td>500GB®</td>
<td>DVD±RW</td>
<td>11b/g/n®</td>
<td>PS2/USB</td>
<td>BT/BT</td>
<td>Prem 64 Jun 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4031-3BU</td>
<td>Athlon II X2 235e</td>
<td>2.70</td>
<td>4GB</td>
<td>21.5&quot; FHD</td>
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<td>3000</td>
<td>1TB</td>
<td>DVD±RW</td>
<td>11b/g/n</td>
<td>BT/BT</td>
<td>Prem 64 Aug 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4031-1GU</td>
<td>Athlon II X3 400e</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; FHD</td>
<td>Multi</td>
<td>HD 5450</td>
<td>640GB®</td>
<td>DVD±RW</td>
<td>11b/g/n</td>
<td>TV</td>
<td>IR remote</td>
<td>BT/BT</td>
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<td>4031-1HU</td>
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<td>DVD±RW</td>
<td>11b/g/n</td>
<td>TV</td>
<td>IR remote</td>
<td>BT/BT</td>
<td>Prem 64 Jun 10</td>
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<td>21.5&quot; FHD</td>
<td>Multi</td>
<td>3000</td>
<td>1TB</td>
<td>DVD±RW</td>
<td>11b/g/n</td>
<td>BT/BT</td>
<td>Prem 64 Mar 11</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- All-in-One design with 21.5" Full HD 16:9 widescreen, multi-touch support
- (Selected models) Integrated TV tuner
- Lenovo Rescue System provides OneKey recovery without booting into Windows
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)

---

**Processor**

AMD® Athlon™ II X2 Processor 235e with dual-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 tech, int DDR3 memory controller, and 2MB L2 cache (1MB per core) or AMD Athlon II X3 Processor 400e with quad-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 tech, int DDR3 memory controller, and 1.5MB L2 cache (512KB per core) or AMD Athlon II X4 Processor 600e with quad-core, 4000MHz HyperTransport Bus, AMD Virtualization (AMD-V) technology, AMD64 tech, int DDR3 memory controller, and 2MB L2 cache (512KB per core)

**Memory**

4GB std / 4GB max / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; **italics:** standard memory in both sockets; no sockets available

**SATA DVD±RW**

SATA disk: DVD burner, dual-layer support, fixed, not removable, tray-in 500GB®, 640GB®, or 1TB. SATA 3.0gb/s, 7200 rpm, 3.5" wide

**Widescreen display**

21.5" (546.1mm) Full HD (WUXGA 1920x1080) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Graphics**

Some: ATI™ Radeon™ 3000, integrated graphics in 760G, uses main memory, DirectX® 10;

Some: ATI Radeon HD 5450, PCI Express® x16, 512MB memory, DirectX 11, ATI Avivo™ HD

**Chipset**

AMD 760G Chipset with HyperTransport 3.0 and PCI Express 2.0 support; SB710 south bridge

**Multicard reader**

5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC)

**Ports**

Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), TV tuner connector on some models, IEEE 1394 FireWire 400 (4-pin connector)

Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm)

**PCIe Mini Card**

11b/g/n®

TV tuner

Bluetooth™

Modern

Ethernet

Audio support

Security

Keyboard

Mouse

Remote control

Dimensions³

Weight³

Chassis

Stand

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations)³

Limited Warranty

- 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)
- 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)
- 24x7® toll-free support for warranty issues during the warranty period³ via 877-453-6886

See footnotes for important warranty information

© Lenovo

US model announced March 23, 2011; previous models on June 3 or August 25, 2010 (BBDS1-1) March 2011

---

**Preloaded operating system³**

- Genuine Windows® 7
- Home Premium 64

**Preloaded applications³** (only some listed)

- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus
- Lenovo Eye Distance System
- Cyberlink Power2Go (DVD±RW)
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo VeriTouch
- AutoCollage Touch
- Windows Live Essential
- Microsoft® Office 2010 preloaded; purchase product key to activate

Intended models: 120-watt AC adapter

Discrete models: 130-watt AC adapter

ENERGY STAR® 5.0-compliant RoHS-compliant
IdeaCentre™ B305 (4031) - Windows 7 (web only models)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-Touch screen</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>SATa optical</th>
<th>PCIe Mini Card</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Keyboard/Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4031-1RU</td>
<td>Athlon II X2 235e</td>
<td>2.70</td>
<td>2GB</td>
<td>21.5&quot; FHD Multi</td>
<td>HD 5450</td>
<td>320GB DVD+RW</td>
<td>11b/g/n</td>
<td>11b/g/n</td>
<td>11b/g/n</td>
<td>TV IR remote</td>
<td>PS2/USB</td>
<td>Prem 64 Jun 10</td>
<td></td>
</tr>
<tr>
<td>4031-1GU</td>
<td>Athlon II X3 400e</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; FHD Multi</td>
<td>HD 5450</td>
<td>500GB DVD+RW</td>
<td>11b/g/n</td>
<td>11b/g/n</td>
<td>11b/g/n</td>
<td>TV IR remote</td>
<td>PS2/USB</td>
<td>Prem 64 Jun 10</td>
<td></td>
</tr>
<tr>
<td>4031-1PU</td>
<td>Athlon II X4 600e</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; FHD Multi</td>
<td>HD 5450</td>
<td>640GB DVD+RW</td>
<td>11b/g/n</td>
<td>11b/g/n</td>
<td>11b/g/n</td>
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<td>PS2/USB</td>
<td>Prem 64 Jun 10</td>
<td></td>
</tr>
</tbody>
</table>

- All-In-One design with 21.5" Full HD 16:9 widescreen, multi-touch support
- (Selected models) Integrated TV tuner
- Lenovo Rescue System provides OneKey recovery without booting into Windows

Processor
AMD Athlon II X2 Processor 235e with dual-core,
4000MHz HyperTransport, AMD Virtualization technology, AMD64 tech, int DDR3 memory controller, and 2MB L2 cache (1MB per core) or AMD Athlon II X3 Processor 400e with quad-core,
4000MHz HyperTransport Bus, AMD Virtualization technology, AMD64 tech, int DDR3 memory controller, and 1.5MB L2 cache (512KB per core) or AMD Athlon II X4 Processor 600e with quad-core.
4000MHz HyperTransport Bus, AMD Virtualization technology, AMD64 tech, int DDR3 memory controller, and 2MB L2 cache (512KB per core)

Memory
2GB or 4GB std / 4GB max / 8GB / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets,
Non-italics: standard memory in both sockets; no sockets available;
Non-italics: standard memory in one socket; one socket available

SATA DVD±RW
SATA disk
DVD burner, dual-layer support, fixed, not removable, tray-in
320GB, 500GB, or 640GB, SATA 3.0Gb/s, 7200 rpm, 3.5" wide

Widescreen display
21.5" (546.1mm) Full HD (WUXGA 1920x1080) TFT color, VibrantView

Controls
Camera on top of screen, 0.3-megapixel, fixed focus, with microphone

Graphics
ATI Radeon HD 5450, PCI Express x16, 512MB memory, DirectX 11, ATI Avivo

Chipset
AMD 760G Chipset with HyperTransport 3.0 and PCI Express 2.0 support; SB710 south bridge

Multicard reader
5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC)

Ports
Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), TV tuner connector on some models, IEEE 1394 FireWire 400 (4-pin connector)
Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm)

PCIe Mini Card
11b/g/n
Two PCI Express Mini Card slots
11b/g/n wireless®, PCI Mini Card, Broadcom® chip or Atheros chip
None

TV tuner
Some: Hybrid tuner, support analog and digital signal, PCIe Mini Card

Modem
None

Ethernet
10/100 ethernet on planar, RealTek® RTL8103EL

Audio support
High Definition (HD) Audio, RealTek ALC272 codec / stereo speakers (3 watt x 2)

Security
Power-on password, administrator password

Keyboard Mouse
Full-size keyboard (PS/2 connector), Fn keys, black
Optical Wheel Mouse (USB connector), black

Remote control
Some: MCE remote control, via IR

Dimensions
(WxHxD): 20.7" x 16.0" x 4.37"; 526mm x 407mm x 111mm

Weight
Touch models: 24.7 lb (11.2kg)

Chassis
Black color; ABS plastic

Stand
Adjustable stand (between 15° and 40°)

Preloaded operating system
- Genuine Windows 7 Home Premium 64
- Lenovo IdeaTouch (Touch models) – PowerCinema
- Lenovo VeriTouch – AutoCollage Touch
- Windows Live Essential
- Microsoft® Office 2007 Trial (60-day)

Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts);
  8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations):
  • 2-year Lenovo Onsite Repair
  • 3-year Lenovo Onsite Repair

See footnotes for important warranty information
US models announced June 3, 2010

© Lenovo
(BBDS1-2) June 2010
Lenovo IdeaCentre B320 with optional Bluetooth keyboard and mouse

Lenovo IdeaCentre B320 (TV IN, and TV tuner connector on some models)

Lenovo IdeaCentre B320

Lenovo IdeaCentre B320 with optional Bluetooth keyboard and mouse (Hardware TV buttons on some models)

Lenovo IdeaCentre B320

Lenovo IdeaCentre B320 (Hardware TV buttons on some models)
### IdeaCentre™ B320 (7760) - Multi-touch

| Type-model | Processor | Memory | Widescreen display | Multi-touch screen | Camera (megapixel) | Graphics | SATA disk | Optical | Mini PCIe | OneKey TV | Remote control | Bluetooth | Keyboard/ | USB3.0 | Win7 preload |
|------------|-----------|--------|--------------------|-------------------|-------------------|----------|----------|---------|----------|-----------|----------------|-----------| mouse/ |        |             |
| 7760-1CU   | G620      | 2GBx2  | 21.5" FHD Multi    | 0.3M               | Intel HD          | 500GBb   | DVD±RW   | 11b/g/n | 802.11  | BT        | BT/Remote | None          | Prem       |        |        | 64          |
| 7760-2CU   | G620      | 4GBx1  | 21.5" FHD Multi    | 0.3M               | Intel HD          | 1TB      | DVD±RW   | 11b/g/n | OneKey   | BT/Remote | BT/Remote     | None       |        |        | 64          |
| 7760-2SU   | G620      | 4GBx1  | 21.5" FHD Multi    | 0.3M               | Intel HD          | 1TB      | DVD±RW   | 11b/g/n | OneKey   | BT/Remote | BT/Remote     | None       |        |        | 64          |
| 7760-3CU   | G640      | 4GBx1  | 21.5" FHD Multi    | 0.3M               | Intel HD          | 500GB    | DVD±RW   | 11b/g/n | OneKey   | BT/Remote | BT/Remote     | None       |        |        | 64          |
| 7760-2WU   | G630      | 4GBx1  | 21.5" FHD Multi    | 0.3M               | Intel HD          | 500GB    | DVD±RW   | 11b/g/n | OneKey   | BT/Remote | BT/Remote     | None       |        |        | 64          |
| 7760-2SUW  | G630      | 4GBx1  | 21.5" FHD Multi    | 0.3M               | Intel HD          | 500GB    | DVD±RW   | 11b/g/n | OneKey   | BT/Remote | BT/Remote     | None       |        |        | 64          |
| 7760-2SUW  | G630      | 4GBx1  | 21.5" FHD Multi    | 0.3M               | Intel HD          | 500GB    | DVD±RW   | 11b/g/n | OneKey   | BT/Remote | BT/Remote     | None       |        |        | 64          |
| 7760-1SUW  | G640      | 4GBx1  | 21.5" FHD Multi    | 0.3M               | Intel HD          | 500GB    | DVD±RW   | 11b/g/n | OneKey   | BT/Remote | BT/Remote     | None       |        |        | 64          |

- **21.5" Full HD frameless display supporting state-of-the-art multi-touch**
- OneKey TV turns the display into a High-def TV at the click of a button; you can watch TV even without powering on the PC
- SRS Premium Sound provides the ultimate audio experience for music, movies and games on the PC
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

* Optional feature

### Preloaded operating system
- Genuine Windows® 7
- Home Premium 64

### Preloaded applications
- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus
- 60 days of virus definitions
- CyberLink Power2Go (DVD±RW)
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo VeriTouch
- PhotoStudio Paint
- Lenovo Ebook and Quick Notes
- Touch Games (Touch models)
- Angry Birds
- Happy Hit
- Curling
- Music Star
- Link Up
- Funny Cube
- Firework
- Windows Live Essentials
- CyberLink YouCam
- Microsoft Office 2010 preloaded
- Purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

### Chipset
- Intel H61 Express Chipset
- 2Pc/e Mini Card slots (one full size and one half size)
- 11b/g/n wireless
- Bluetooth 4.0
- None
- Gigabit ethernet on planar, Intel 82579V
- High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™, stereo speakers (3 watts x 2)

### Widescreen display
- 21.5" (546.1mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio
- Multi-touch, 2-point support
- Camera on top of screen, 0.3-megapixel, fixed focus, with analog microphone

### OneKey TV
- Some: Hardware TV, turns the display into a High-def TV at the click of a button (even without powering on the PC)

### Graphics
- Intel HD Graphics, integrated in processor, uses main memory, DirectX® 10.1

### Optical Sata disk
- DVD burner, dual-layer support, 12.7mm, tray-in
- 500GB or 1TB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm
- Serial ATA, SATA 3.0Gb/s, support, integrated in chipset

### Dimensions
- Non-touch models: (WxHxD): 21.0" x 16.0" x 2.96"; 534mm x 405.2mm x 75.3mm
- Non-touch models w/stand: (WxHxD): 21.0" x 16.0" x 4.67"; 534mm x 405.2mm x 118.5mm
- Touch models: (WxHxD): 21.0" x 16.0" x 3.47"; 534mm x 405.2mm x 88.2mm
- Touch models w/stand: (WxHxD): 21.0" x 16.0" x 5.17"; 534mm x 405.2mm x 131.4mm
- From 22.11 lb (10.03 kg), vary by configuration

### Service upgrade options
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations): 2-year Lenovo In-Home Repair
- 9x5 Next Business Day (78Y1552)
- 3-year Lenovo In-Home Repair
- 9x5 Next Business Day (7851553)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

For more information, visit Lenovo’s Personal Systems Reference (PSREF) at [BAKR1-1].

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See footnotes for important warranty information

* US model(s) announced August 29, 2012; previous models on August 10, 2011 or January 18 or February 29, 2012
## IdeaCentre™ B320 (Multi-touch) - web only models

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<th>Multi-touch screen</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>Optical</th>
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<th>802.11 wireless</th>
<th>OneKey TV</th>
<th>Remote control</th>
<th>Keyboard/ Mouse/ USB3.0</th>
<th>Win7 preload</th>
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<tr>
<td>7760-1EU</td>
<td>i3-2120</td>
<td>4GBx1</td>
<td>21.5&quot; FHD</td>
<td>Multi</td>
<td>0.3M</td>
<td>HD6450</td>
<td>1TB</td>
<td>DVD:RW</td>
<td>11b/g/n</td>
<td>OneKey TV</td>
<td>IR Remote</td>
<td>BT/ BT</td>
<td>None Prem 64</td>
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<td>7760-1DU</td>
<td>i3-2120</td>
<td>4GBx2</td>
<td>21.5&quot; FHD</td>
<td>Multi</td>
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<td>2TB</td>
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<td>HD6450</td>
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<td>DVD:RW</td>
<td>11b/g/n</td>
<td>OneKey TV</td>
<td>IR Remote</td>
<td>BT/ BT</td>
<td>None Prem 64</td>
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<tr>
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<td>i3-2120</td>
<td>4GBx2</td>
<td>21.5&quot; FHD</td>
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<td>0.3M</td>
<td>HD7450A</td>
<td>2TB</td>
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<td>OneKey TV</td>
<td>IR Remote</td>
<td>BT/ BT</td>
<td>None Prem 64</td>
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<tr>
<td>7760-7EE</td>
<td>i3-2120</td>
<td>4GBx2</td>
<td>21.5&quot; FHD</td>
<td>Multi</td>
<td>0.3M</td>
<td>HD7450A</td>
<td>1TB</td>
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<td>OneKey TV</td>
<td>IR Remote</td>
<td>BT/ BT</td>
<td>None Prem 64</td>
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<tr>
<td>57312628</td>
<td>i3-2120</td>
<td>4+2GB</td>
<td>21.5&quot; FHD</td>
<td>Multi</td>
<td>0.3M</td>
<td>HD7450A</td>
<td>1TB</td>
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<td>OneKey TV</td>
<td>IR + MCE</td>
<td>2.4G/2.4G</td>
<td>None Prem 64</td>
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<tr>
<td>57312628</td>
<td>i3-2120</td>
<td>4+2GB</td>
<td>21.5&quot; FHD</td>
<td>Multi</td>
<td>0.3M</td>
<td>HD7450A</td>
<td>1TB</td>
<td>DVD:RW</td>
<td>11b/g/n</td>
<td>OneKey TV</td>
<td>IR + MCE</td>
<td>2.4G/2.4G</td>
<td>None Prem 64</td>
</tr>
</tbody>
</table>

### Preloaded operating system

- Genuine Windows 7
- Home Premium 64
- Windows Live Essentials
- CyberLink Power2Go (DVD±RW)
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo VeriTouch
- PhotoStudio Paint
- Lenovo Ebook and Quick Notes
- Touch Games (Touch models)
- Angry Birds
- Happy Hit
- Curling
- Music Star
- Link Up
- Funny Cube
- Firework
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

### Preloaded applications

- Lenovo Rescue System
- Driver and Application Installation
- McAfee VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo VeriTouch
- PhotoStudio Paint
- Lenovo Ebook and Quick Notes
- Touch Games (Touch models)
- Angry Birds
- Happy Hit
- Curling
- Music Star
- Link Up
- Funny Cube
- Firework
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

### Limited Warranty

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (eligible locations):
  - 2-year Lenovo In-Home Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo In-Home Repair
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

### ENERGY STAR® qualified RoHS-compliant

### Previous Model(s)

The previous model(s) on January 18, February, August 29, or October 10, 2012

### Footnotes

- See footnotes for important warranty information
- US model(s) announced February 21, 2013;
- previous model(s) on January 18, February, August 29, or October 10, 2012

### Key Features

- **21.5" Full HD frameless display supporting state-of-the-art multi-touch**
- **OneKey® TV** turns the display into a High-def TV at the click of a button; you can watch TV even without powering on the PC
- **SRS Premium Sound** provides the ultimate audio experience for music, movies and games on the PC
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

### Suggested Applications

- **SRS Premium Sound**
  - Provides the ultimate audio experience for music, movies and games on the PC
- **OneKey TV**
  - Turns the display into a High-def TV at the click of a button (even without powering on the PC)
- **Windows Live Essentials**
- **CyberLink Power2Go (DVD±RW)**
- **Lenovo IdeaTouch (Touch models)**
- **PowerCinema**
- **Lenovo VeriTouch**
- **PhotoStudio Paint**
- **Lenovo Ebook and Quick Notes**
- **Touch Games (Touch models)**
- **Popular Games:**
  - Angry Birds
  - Happy Hit
  - Curling
  - Music Star
  - Link Up
  - Funny Cube
  - Firework
- **Microsoft Office 2010 preloaded:**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts):**
- **8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time:**
- **Service upgrade options (eligible locations):**
  - 2-year Lenovo In-Home Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo In-Home Repair
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

### System Specifications

- **Processor:**
  - Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)
  - DDR3 memory controller (up to 1333MHz)
- **Memory:**
  - 4GB / 8GB DDR3 memory compliant (1GB minimum)
  - 8GB max
  - 1600MHz DDR3 memory controller
- **Graphics:**
  - Intel HD Graphics 2000
  - Intel HD Graphics 4000
  - Intel HD Graphics 5000
  - AMD Radeon HD 4650
  - AMD Radeon HD 6450
  - AMD Radeon HD 7450A
  - NVIDIA GeForce GT 220
- **Audio:**
  - High Definition (HD) Audio, Realtek ALC272 codec / SRS Premium Sound™, stereo speakers (3 watts x 2)
- **Keyboard:**
  - Full-sized, blue light
d- **Mouse:**
  - USB3.0 / USB2.0, black
d- **Display:**
  - 21.5" (54.61mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), 1000:1 contrast ratio
d- **Web Camera:**
  - HD720p, microphone, integrated in display
- **Network:**
  - 10/100/1000 Mbps Ethernet
  - Wi-Fi 802.11 a/b/g/n (wireless)
  - Bluetooth (Blueooth 2.1 wireless)
- **Performance:**
  - 200 watts, universal, auto-sensing
- **Dimensions:**
  - Non-touch models: (WxHxD): 21.0" x 16.0" x 2.96"
  - Touch models: (WxHxD): 21.0" x 16.0" x 3.47"
- **Weight:**
  - 22.11 lb (10.03 kg), vary by configuration
Lenovo IdeaCentre B520
(3D Vision models)

Lenovo IdeaCentre B520
(HDMI-in, TV IN, and TV tuner connector on some models)

Lenovo IdeaCentre B520
with optional Bluetooth keyboard and mouse
### IdeaCentre™ B520 (7745) - Multi-touch

**Processor**

- **Type**: Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.10 GHz, 3M Cache)
- **DDR3 memory controller** (up to 1333MHz)
- **Intel Core i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)**
- **Intel Core i5-2310 Processor (4 cores / 4 threads, 2.90 GHz, 6M Cache)**
- **Turbo Boost Technology 2.0** (up to 3.20 GHz), DDR3 memory controller (up to 1333MHz)
- **Intel Core i5-2320 Processor (4 cores / 4 threads, 3.30 GHz, 6M Cache)**
- **Turbo Boost Technology 2.0** (up to 3.30 GHz), DDR3 memory controller (up to 1333MHz)
- **Intel Core i7-2600 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache)**
- **Turbo Boost Technology 2.0** (up to 3.80 GHz), DDR3 memory controller (up to 1333MHz)

**Memory**

- **4GB** or **6GB** std / **16GB** max
- **PC3-10600 1333MHz DDR3**, non-parity, dual-channel capable, four 204-pin SO-DIMM sockets

**Optical**

- **DVD burner**, dual-layer support, 12.7mm, tray-in
- **SATA controller** Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s support, integrated in chipset

**Widescreen display**

- **23.0" (584.2mm) Full HD** (1920x1080 WUXGA) TFT color, VibrantView, LED backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen
- **Multi-touch** support
- **NVIDIA® 3D Vision®**
- **Camera**
  - Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)

**Graphics**

- **Intel HD Graphics 2000**
- **ATSC tuner**, supports analog and digital signal, PCIe Mini Card
- **GT555M** 1GB GDDR5, DirectX 11
- **Realtek ALC663 codec / SRS® Premium Sound audio enhancement**

**Chipset**

- **Intel H67 Express Chipset**

**Multicard reader**

- **Multicard reader** (MMC, MS PRO, MSXC, SD, SDHC, SDXC)
- **Ports**
  - **Rear**:
    - Four USB 2.0 (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), keyboard (PS/2), HDMI-out, HDMI-in (on some models), AV IN (on some models), TV tuner connector (on TV models);
  - **Side**:
    - Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multi-card reader

**PCle Mini Card**

- **11b/g/n wireless**, PCI Express x16, 1GB GDDR5, DirectX 11

**Bluetooth®**

- **2.1 wireless**

**Modem**

- None

**Ethernet**

- Gigabit ethernet on planar, Intel 82579V

**Audio support**

- External (HD) Audio, Realtek ALC663 codec / SRS® Premium Sound™
- 5.0 speakers (3 watts x 5)

**Keyboard**

- **Bluetooth full-size keyboard, 6-row, black**
- **BlueTooth Wheel Mouse, black**

**Remote control**

- **MCE remote control**, via IR

**Power supply**

- 250 watts, universal, auto-sensing

**Dimensions**

- Non-3D models: (WxHxD): 22.35” x 16.80” x 3.01”, 567.8mm x 426.7mm x 76.5mm
- 3D models: (WxHxD): 22.35” x 16.80” x 3.48”, 567.8mm x 426.7mm x 88.5mm

**Weight**

- From 22.22 lb (10.08 kg)

**Chassis**

- **Front**:
  - black and silver color
  - **rear**: silver color

**Stand**

- Adjustable stand (between 15° and 45°), supports cable management

**Wall mount**

- Wall mount kit, meets VESA 100mm mount standard

**Preloaded operating system**

- Genuine Windows® 7
- Home Premium 64

**Preloaded applications**

- Lenovo Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- CyberLink Power2Go (DVD±RW, Blu-ray)
- Lenovo IdeaTouch (Touch models)
  - PowerCinema
  - Lenovo VeriTouch
  - PhotoStudio Paint
  - Lenovo Ebook and Quick Notes
  - Touch Games (Touch models)
    - Angry Birds
    - Happy Hit
    - Curling
    - Music Star
    - Link Up
    - Funny Cube
    - Firework
  - Windows Live Essentials
- Lenovo® Preloaded software
  - CyberLink YouCam
  - Windows Live Essentials
  - Lenovo IdeaTouch (Touch models)
  - PowerCinema
  - Lenovo VeriTouch
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    - Link Up
    - Funny Cube
    - Firework
  - Windows Live Essentials

**See footnotes for important warranty information**

※ US models announced November 23, 2011; previous models on July 20, 2011

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1. **Full HD frameless display supporting state-of-the-art multi-touch**
2. **NVIDIA 3D Vision** technologies
3. **Integrated TV tuner**
4. **3-in-1 motion drive wireless mouse** — including motion-drive gaming and remote control functions
5. **Integrated 5.0 speakers (3 watts x 5) supporting SRS Premium Sound audio enhancement**
6. **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

* Optional feature
## IdeaCentre™ B520 (7745) - Multi-touch (web only models)

### Processor
- **Intel® Core™ i3-2120 Processor** (2 cores / 4 threads, 3.30 GHz, 3M Cache)
- **Intel Core i5-2320 Processor** (4 cores / 4 threads, 3.00 GHz, 6M Cache)
- **Intel Core i5-2500 Processor** (4 cores / 4 threads, 3.30 GHz, 6M Cache)
- **Intel Core i7-2600 Processor** (4 cores / 8 threads, 3.40 GHz, 8M Cache)

### Memory
- 6GB or 8GB std / 16GB max
- Non-parity, dual-channel capable, four 204-pin SO-DIMM sockets

### Optical
- DVD burner, dual-layer support, 12.7mm, tray-in
- Blu-ray disc burner (no Blu-ray media burning), CD-RW, DVD±R/DVD±RW, 8x burn rate

### SATADisk
- Serial ATA 3.0Gb/s or SATA 6.0Gb/s, 3.5" wide, 7200 rpm

### Widescreen display
- 23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView
- 16:9 aspect ratio, 100:1 contrast ratio, frameless screen

### Graphics
- Intel HD Graphics, integrated in processor, uses main memory, DirectX
- NVIDIA® GeForce® GT 555M, PCI Express x16, 2GB GDDR5, DirectX 11

### Chipset
- Intel H67 Express Chipset

### Ports
- Rear: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multi-card reader
- Multi-touch, 2-point support

### Keyboard and Mouse
- Bluetooth wireless (EDR)
- None

### Audio
- Gigabit ethernet on planar, Intel 82579V

### Remote control
- Multimode remote control, via IR

### Power supply
- 250 watts, universal, auto-sensing

### Display
- 23" HD Multi
- Widescreen
- 500GB SATA 3.0Gb/s or SATA 6.0Gb/s, 3.5" wide, 7200 rpm
- Some:
  - Wall mount kit, meets VESA 100mm mount standard
  - Bluetooth 2.1 wireless + EDR
  - ATSC tuner, supports analog and digital signal, PCIe Mini Card

### Software
- Windows 7 Home Premium 64
- Windows Live Essentials
- CyberLink YouCam
- Microsoft Office 2010 preloaded
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- The software is not compatible with 720p Camera

### ENERGY STAR® qualified
- RoHS-compliant

## Preloaded operating system
- Genuine Windows 7 Home Premium
- Lenovo Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus
- CyberLink Power2Go (DVD±RW, Blu-ray)
- CyberLink PowerDVD (Blu-ray)
- Lenovo IdeaTouch (Touch models) - PowerCinema
- Lenovo TV Remote (only some listed)
- Lenovo MCE Remote Control (only some listed)

## Warranty
- 1-year parts and labor
- 2-year Lenovo In-Home Repair
- 3-year Lenovo In-Home Repair

## Features
- 23" Full HD frameless display supporting state-of-the-art multi-touch and NVIDIA 3D Vision technologies
- Integrated TV tuner
- 3-in-1 motion drive wireless mouse - including motion-drive gaming and remote control functions
- Integrated 5.0 speakers (3 watts x 5) supporting SRS Premium Sound audio enhancement
- These systems are Microsoft Office 2010 Product Key Ready (O10PKR)
- Optional feature

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### Specifications
- **Processor**: Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)
- **Memory**: 6GB or 8GB std / 16GB max
- **Optical**: DVD burner, dual-layer support, 12.7mm, tray-in
- **SATADisk**: Serial ATA 3.0Gb/s or SATA 6.0Gb/s, 3.5" wide, 7200 rpm
- **Widescreen display**: 23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView
- **Graphics**: Intel HD Graphics, integrated in processor, uses main memory, DirectX
- **Chipset**: Intel H67 Express Chipset
- **Ports**: Rear: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multi-card reader
- **Keyboard and Mouse**: Bluetooth wireless (EDR)
- **Audio**: Gigabit ethernet on planar, Intel 82579V
- **Remote control**: Multimode remote control, via IR
- **Power supply**: 250 watts, universal, auto-sensing
- **Display**: 23" HD Multi
- **Software**: Windows 7 Home Premium 64
- **Energy STAR® qualified**
- **RoHS-compliant**

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See footnotes for important warranty information.

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US models announced December 21, 2011; previous models on July 20, 2011

(MLC1-1) December 2011

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See footnotes for important warranty information.

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US models announced December 21, 2011; previous models on July 20, 2011

(MLC1-1) December 2011
### IdeaCentre B520e (3111) - Multi-touch

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<th>Processor</th>
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<th>Widescreen display</th>
<th>Multi-touch screen</th>
<th>Graphics</th>
<th>SATA disk controller</th>
<th>Optical</th>
<th>Mini PCIe 802.11n wireless</th>
<th>TV tuner / OneKey TV</th>
<th>Remote control</th>
<th>Keyboard / Mouse</th>
<th>Wall mount kit</th>
<th>HDMI-in AV IN</th>
<th>Win7 preload</th>
</tr>
</thead>
<tbody>
<tr>
<td>3111-1MU</td>
<td>Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.70 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz)</td>
<td>4GBx1</td>
<td>23&quot; FHD Multi 0.3M</td>
<td>Intel HD 500G DVD±RW 11b/g/n 11b/g/n 11b/g/n</td>
<td>Intel® H61 Express Chipset</td>
<td>Rear: Two USB 2.0, two USB3.0, Ethernet (10/100/1000), HDMI Out, TV tunner connector (on TV model); Side: USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm)</td>
<td>Intel HD Graphics in processor, uses main memory</td>
<td>Intel HD Graphics in processor, uses main memory</td>
<td>23&quot; Full HD frameless display supporting state-of-the-art multi-touch*</td>
<td>OneKey TV turns the display into a High-def TV at the click of a button; you can watch TV even without powering on the PC</td>
<td>Driver and Application Installation</td>
<td>None, No TV tuner</td>
<td>None, No HDMI in</td>
<td>None, No Win7 preload</td>
</tr>
</tbody>
</table>

- 23" Full HD frameless display supporting state-of-the-art multi-touch*
- OneKey TV* turns the display into a High-def TV at the click of a button; you can watch TV even without powering on the PC

* Optional feature

---

**Preloaded operating system**
- Genuine Windows® 7 Home Premium 64

**Preloaded applications** (only some listed)
- Lenovo Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- Lenovo IdeaTouch (Touch models)
- Microsoft Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System®
- Lenovo Eye Distance System*
- Lenovo Eye Distance System®

The software is not compatible with 720p Camera

**ENERGY STAR® qualified RoHS-compliant**

**Limited Warranty**
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts), 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 2-year Lenovo In-Home Repair
  - 9x5 Next Business Day
  - 3-year Lenovo In-Home Repair
  - 9x5 Next Business Day
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

---

See footnotes for important warranty information

US model(s) announced April 11, 2012

© Lenovo (MLC1-3) April 2012
### IdeaCentre™ B540 (2568)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Multi-touch screen</th>
<th>Camera</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>Optical</th>
<th>Mini PCIe</th>
<th>802.11 wireless</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Keyboard/Mouse</th>
<th>HDMI-in</th>
<th>AV IN</th>
<th>USB 3.0</th>
<th>Bluetooth</th>
<th>Win7 preload</th>
<th>Avail date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2568-2SU G640</td>
<td>Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.80 GHz, 3M Cache)</td>
<td>4GBx1</td>
<td>23” FHD</td>
<td>Multi</td>
<td>720p Intel HD</td>
<td>500GB²</td>
<td>DVD±RW</td>
<td>11b/g/n²²</td>
<td>None</td>
<td>None</td>
<td>2.4G</td>
<td>None</td>
<td>USB3.0 BT</td>
<td>BT</td>
<td>12/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2568-2SU I3-2120 4Gx1</td>
<td>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)</td>
<td>4GBx1</td>
<td>23” FHD</td>
<td>Multi</td>
<td>720p Intel HD 2000</td>
<td>1TB</td>
<td>DVD±RW</td>
<td>11b/g/n²²</td>
<td>None</td>
<td>None</td>
<td>2.4G</td>
<td>None</td>
<td>USB3.0 BT</td>
<td>BT</td>
<td>12/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2568-2SU I3-2120 4+2G</td>
<td>Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)</td>
<td>4GBx1 2GBx1</td>
<td>23” FHD</td>
<td>Multi</td>
<td>720p Intel HD 2000</td>
<td>1TB</td>
<td>DVD±RW</td>
<td>11b/g/n²²</td>
<td>None</td>
<td>None</td>
<td>2.4G</td>
<td>None</td>
<td>USB3.0 BT</td>
<td>BT</td>
<td>12/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 23” Full HD frameless display supporting state-of-the-art multi-touch* and FPR 3D technologies*
- Integrated TV tuner*
- 2.4G wireless keyboard and mouse
- Integrated 2.0 speakers (3 watts x 2) supporting Dolby Advanced Audio v2
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

* Optional feature

---

**Processor**

Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.80 GHz, 3M Cache)

Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)

**Implementation**

Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller

Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

Processor in FCLGA1155 socket

**Memory**

8GB max³ / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

* System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller

**Optical**

DVD burner, dual-layer support, 12.7mm, tray-in

**SATA disk**

500GB or 1TB, SATA 6.0Gb/s, 3.5” wide, 7200 rpm

**SATA controller**

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

**Widescreen display**

23.0” (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen

**Multi-touch**

Projected Capacitive Touch (PCT) technology, hardware supports 10-point multi-touch

**FPR 3D**

None

**Camera**

Camera on top of screen, HD720p resolution, fixed focus, with digital microphone

**Controls**

Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)

**Graphics**

Intel HD Graphics or Intel HD Graphics 2000, integrated in processor, uses main memory

**Chipset**

Intel H61 Express Chipset

Multicard reader (MMC, MS PRO, MSXC, SD, SDHC, SDXC)

**Ports**

Rear: Four USB 2.0, (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), HDMI-out, HDMI-in (on some models), and TV tuner connector (on TV models);

Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader

**PCle Mini Card**

Two PCle Mini Card slots

11b/g/n wireless, PCle Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip

**TV tuner**

None

**Modem**

None

**Ethernet**

Gigabit ethernet on planar, Realtek® RTL 8111F

**Audio support**

High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2, 2.0 speakers (3 watts x 2)

**Keyboard**

2.4G wireless Ultra Slim Keyboard, 6-row, Fn keys, black

2.4G wireless Laser Wheel Mouse, black

**Remote control**

None

**Power supply**

200 watts, universal, auto-sensing

**Dimensions²**

Non-3D models: (WxHxD): 22.70" x 16.22" x 4.34"; 576.6mm x 411.9mm x 110.3mm

Weight®

From 24.25 lb (11.00 kg), vary by configuration

**Chassis**

Front: black with silver; rear: black with silver

**Stand**

Adjustable stand (between 15° and 40°), supports cable management

**Wall mount**

None

---

**Preloaded operating system³**

- Genuine Windows® 7
- Home Premium 64

**Preloaded applications⁴** (only some listed)

- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® Internet Security (30-day Trial)
- CyberLink Power2Go (DVD±RW, Blu-ray)
- CyberLink PowerDVD (Blu-ray)
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo VeriTouch
- PhotoStudio Paint
- Lenovo Ebook and Quick Notes
- Touch Games (Touch models)
- Angry Birds
- Happy Hit
- Curling
- Music Star
- Link Up
- Funny Cube
- Firework
- Windows Live Essentials
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate

**ENERGY STAR®** qualified

RoHS-compliant

### Limited Warranty¹²

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²⁰)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations):³
  - 2-year Lenovo In-Home Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo In-Home Repair
  - 9x5 Next Business Day (78Y1553)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

**US model(s) announced December 13, 2012; previous model(s) on July 11, 2012

© Lenovo (TOGA1-2) December 2012
<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Multi-Touch screen</th>
<th>Camera</th>
<th>Graphics</th>
<th>Mini PCIe</th>
<th>SATA disk</th>
<th>Optical</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Keyboard/ Mouse</th>
<th>Blue-tooth</th>
<th>Win8 preload</th>
<th>Avail date (mm/yy)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>57308828 G645</td>
<td>Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.90 GHz, 3M Cache) DDR3 memory controller (up to 1066MHz), integrated Intel HD Graphics</td>
<td>8GB max / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
<td>23.0&quot; (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen</td>
<td>Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>USB3.0</td>
<td>BT4.0</td>
<td>11/12</td>
<td></td>
</tr>
<tr>
<td>57308886 i3-2130</td>
<td>Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3M Cache) DDR3 memory controller (up to 1335MHz), integrated Intel HD Graphics 2000 Intel Core i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 2500</td>
<td>260GB or 1TB, SATA 6.0Gb/s, 3.5&quot; wide, 7200 rpm</td>
<td>Integrated Multi-Touch screen supports state-of-the-art multi-touch* and FPR 3D technologies*</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>USB3.0</td>
<td>BT4.0</td>
<td>11/12</td>
<td></td>
</tr>
<tr>
<td>57314111 i5-3330S</td>
<td>Intel Core i5-3330S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache), DDR3 memory controller (up to 2300MHz), integrated Intel HD Graphics 2500</td>
<td>500GB or 1TB, SATA 3.0Gb/s, 3.5&quot; wide, 7200 rpm</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<td>None</td>
<td>BT4.0</td>
<td>03/13</td>
<td></td>
</tr>
<tr>
<td>57312430 i3-3220</td>
<td>Intel Core i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3M Cache) DDR3 memory controller (up to 1335MHz), integrated Intel HD Graphics 2000 Intel Core i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) DDR3 memory controller (up to 1600MHz), integrated Intel HD Graphics 2500</td>
<td>260GB or 1TB, SATA 6.0Gb/s, 3.5&quot; wide, 7200 rpm</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>USB3.0</td>
<td>BT4.0</td>
<td>03/13</td>
<td></td>
</tr>
</tbody>
</table>

*System automatically clocks down for processors with 1066MHz or 1333MHz DDR3 memory controller.

**US model(s) announced March 6, 2013; previous model(s) on November 28, 2012

Preloaded operating system:
- Windows® 8 64-bit

Preloaded applications (only some listed):
- Lenovo® Rescue System
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- CyberLink YouCam
- McAfee® Internet Security
- Cyberlink PowerDVD® (BD player)
- Adobe® Reader®
- Nitro PDF
- Cyberlink Power2Go (DVD±RW, BD player)
- Touch Games (Touch models)
- Education Portal
- Microsoft Office preloaded;
- purchase product key to activate
- Intel AppUp®
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- AccuWeather
- eBay
- Evernote
- Amazon Kindle
- Lenovo Support
- Rara Streaming
- Lenovo Companion

ENERGY STAR® qualified
RoHS-compliant

Limited Warranty:
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts), 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 2-year Lenovo In-Home Repair
  - 3-year Lenovo In-Home Repair
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6868
### IdeaCentre™ B540 (2568) - (web only models)

**Processor**
- **Intel Core™ i3-2120 Processor** (2 cores / 4 threads, 3.30 GHz, 3M Cache)
- integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

**Integrated stereo speakers (2 watts x 2)** supporting Dolby Advanced Audio v2
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**
- **Optional feature**

### Preloaded operating system
- **Genuine Windows® 7**: Home Premium 64

### Preloaded applications
- **Lenovo® Rescue System**
- **Driver and Application Installation**
- **McAfee® Internet Security**
- Cyberlink Power2Go (DVD±RW, Blu-ray) (**CyberLink PowerDVD (Blu-ray)**)
- Lenovo IdeaTouch (Touch models)
  - **PowerCinema**
  - **Lenovo VeriTouch**
  - **PhotoStudio Paint**
  - **Lenovo Ebook and Quick Notes**
  - **Touch Games (Touch models)**
  - **Music Star**
  - **Link Up**
  - **Funny Cube**
  - **Firework**
  - **Windows Live Essentials**
  - **CyberLink YouCam**
  - **Microsoft Office 2010 preloaded**: purchase product key to activate

### Limited Warranty
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU)** parts only (with limited onsite service for selected parts)
- **8 am - 5 pm, Mon - Fri coverage (excluding holidays, next business day response time)**
- **Service upgrade options (in eligible locations)**
  - **2-year Lenovo In-Home Repair**
  - **3-year Lenovo In-Home Repair**
  - **24x7 toll-free support for warranty issues during the warranty period via 877-453-6886**

See footnotes for important warranty information

**US model(s) announced October 24, 2012; previous model(s) on June 21 or July 25, 2012**

(TOGA1-1) October 2012

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### Type-model | Processor | Memory | Display | Multi-touch | FPR 3D | Camera | Controls | Graphics | SATA disk | Mini PCIe | OneKey TV | Remote control | Key-board/ | Win preload | Avail date (mm/yy)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | Mouse | USB3.0 | ---
2568-1VU i3-2120 | 4GBx2 | 23’ FHD | 720p HD Graphics | 1TB | DVD±RW | 11b/g/n | MCE Remote | 2.4G | USB3.0 | Prem 64 | 06/12
2568-1JU i5-2400S | 2GBx2 | 23’ Widescreen | 720p HD Graphics | 1TB | DVD±RW | 11b/g/n | MCE Remote | 2.4G | USB3.0 | Prem 64 | 07/12
2568-2GU i5-3450S | 2GBx2 | 23’ Widescreen | 720p HD Graphics | 1TB | DVD±RW | 11b/g/n | MCE Remote | 2.4G | USB3.0 | Prem 64 | 10/12

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**Footnotes**
- Full HD frameless display supporting state-of-the-art multi-touch and FPR 3D technologies
- Integrated TV tuner
- 2.4G wireless keyboard and mouse
- Integrated stereo speakers (2 watts x 2)
- FPR 3D technology
- psychologists
- Optional feature

---

**Processor**
- **Intel Core™ i3-2120 Processor** (2 cores / 4 threads, 3.30 GHz, 3M Cache)
- integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

**Intel Core i5-2400S Processor** (4 cores / 4 threads, 2.50 GHz, 6M Cache)
- Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller

**Intel Core i5-3450S Processor** (4 cores / 4 threads, 2.80 GHz, 6M Cache)
- Turbo Boost Technology 2.0 (up to 3.50 GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller

**Processor** in FCLGA1155 socket
- **4 threads**
- **Intel Core i5-3450S Processor**
- **Intel Core i5-2400S Processor**

**Memory**
- 8GB max
- 14-1800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- System automatically clocks down for processors with 1333MHz DDR3 memory controller

**Optical**
- Some: DVD burner, dual-layer support, 12.7mm, tray-in
- Some: Blu-ray burner, Blu-ray and DVD disk recordable, 12.7mm, tray-in
- SATA disk: 1TB or 2TB, SATA 6.0Gb/s, 3.5" wide, 7200 rpm
- SATA controller: Serial ATA, SATA 3.0Gb/s support, integrated in chipset

**Widescreen display**
- **23.0” (584.2mm) Full HD (1920x1080 WUXGA)**
- **TFT color, VibrantView**
- **Wide-16 aspect ratio, 1000:1 contrast ratio, frameless screen**
- **Multi-touch**
- **4 cores / 8 threads**

**FPR 3D**
- Support FPR 3D technology, 2 pairs of FPR glasses

**Camera**
- Camera on top of screen, HD720p resolution, fixed focus, with digital microphone
- Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)
- Hardware TV buttons on OneKey TV models (Channel Up/Down, Volume Up/Down, TV mode menu button, Signal source choice button, and TV power On/Off)

**Graphics**
- Some: Intel HD Graphics, integrated in processor, uses main memory, DirectX® 10.1
- Some: NVIDIA® GeForce® 615M, PCI Express® x16, 1GB DDR3, DirectX® 11
- Some: NVIDIA® GeForce® 615M, PCI Express x16, 2GB DDR3, DirectX® 11

**Chipset Multicard reader Ports**
- **Intel H61 Express Chipset**
- Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)
- Rear: Four USB 2.0 ports (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45), HDMI-out, HDMI-in (on OneKey TV models), AV IN (on OneKey TV models), and TV tuner connector (on TV models)
- Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader

**PCle Mini Card**
- **11b/g/n/±**
- Two PCIe Mini Card slots
- **11b/g/n wireless**, PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip
- **None**

**TV tuner**
- **None**

**Modem**
- **None**

**Ethernet**
- Gigabit ethernet on planar, Realtek® RTL 8111F

**Audio support**
- High Definition (HD) Audio, Realtek ALC2722 codec / Dolby® Advanced Audio™ v2, stereo speakers (3 watts x 2)

**Keyboard Mouse**
- 2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black
- 2.4G wireless Laser Wheel Mouse, black

**Remote control**
- **MCE remote control, via IR**
- **IR remote control for hardware TV (OneKey TV)**

**Power supply**
- 200 watts, universal, auto-sensing

**Dimensions**
- **Non-3D models: (WorkxD): 22.70” x 16.22” x 4.34”; 576.6mm x 411.9mm x 110.3mm**
- **24.25 lb (11.00 kg), vary by configuration**

**Chassis**
- **Front**: black with silver
- **Rear**: black with silver

**Stand**
- **Adjustable stand (between 15° and 40°), supports cable management**

**Wall Mount**
- **None**

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**ENERGY STAR® qualified**

**RoHS-compliant**

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*Lenovo* 

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See footnotes for important warranty information

**US model(s) announced October 24, 2012; previous model(s) on June 21 or July 25, 2012**
IdeaCentre™ B540 (Windows 8) - web only models

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Multi-touch screen</th>
<th>Camera</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>Optical</th>
<th>Mini PCIe</th>
<th>802.11 wireless</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Keyboard/ Mouse</th>
<th>HDMI-in</th>
<th>Blue-tooth</th>
<th>Win8 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>573117751</td>
<td>i3-3220</td>
<td>4GBx2</td>
<td>23&quot; FHD</td>
<td>720p</td>
<td></td>
<td>Intel HD 2500</td>
<td>2TB² 11b/g/n None Remote 2.4G</td>
<td>None</td>
<td>USB3.0</td>
<td>BT4.0 Win8</td>
<td>64 01/13</td>
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<td></td>
</tr>
<tr>
<td>573117756</td>
<td>i5-3333S</td>
<td>4GBx2</td>
<td>23&quot; FHD</td>
<td>720p</td>
<td></td>
<td>Intel HD Graphics 2500</td>
<td>2TB² 11b/g/n None Remote 2.4G</td>
<td>None</td>
<td>USB3.0</td>
<td>BT4.0 Win8</td>
<td>64 01/13</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

- 23" Full HD frameless display supporting state-of-the-art multi-touch* and FPR 3D technologies*
- Integrated TV tuner*
- 2.4G wireless keyboard and mouse
- Integrated 2.0 speakers (3 watts x 2) supporting Dolby Advanced Audio v2
  * Optional feature

Processor

Intel® Core™ i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)
 DDR3 memory controller (up to 1600MHz), Intel HD Graphics 2500,
Intel Core i5-3333S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache),
DDR3 memory controller (up to 1600MHz), Turbo Boost Technology 2.0 (up to 3.20 GHz),
integrated Intel HD Graphics 2500
Processor in FCLGA1155 socket

Memory

8GB max⁷ / PC3-12800 1600MHz DDR3, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets
* System automatically clocks down for processors with 1066MHz or 1333MHz DDR3

Widescreen display

23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy),
LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen

Graphics

Some: Intel HD Graphics 2500, integrated in processor, uses main memory, DirectX¹¹ 11
Some: NVIDIA® GeForce® 615M, PCI Express x16, 1GB DDR3, DirectX 11

Chipset

Intel H61 Express chipset

Multicard reader

Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)

Ports

Two USB 2.0 (two USB2.0 and two USB3.0 on some models), ethernet (RJ-45),
HDMI-out, HDMI-in (on some models), AV IN (on some models),
and TV tuner connector (on TV models);
Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm),
Multicard reader

Preloaded operating system²⁰

- Windows® 8 64-bit

Preloaded applications²¹ (only some listed)

- Lenovo® Rescue System
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- CyberLink YouCam
- McAfee® Internet Security (30-Day Trial)
- Cyberlink Power2Go (DVD±RW, BD player)
- Adobe® Reader®
- Nitro PDF
- Cyberlink PowerDVD® (BD player)
- Touch Games (Touch models)
- Education Portal
- Microsoft Office preloaded;
purchase product key to activate
- Intel AppUp³
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- AccuWeather
- eBay
- Evernote
- Amazon Kindle
- Lenovo Support
- Rara Streaming
- Lenovo Companion

ENERGY STAR® qualified

RoHS-compliant

Limited Warranty¹²

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts¹³),
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):¹⁴
  - 2-year Lenovo In-Home Repair
  - 3-year Lenovo In-Home Repair
  - 24x7 toll-free support for warranty issues during the warranty period¹⁵ via 877-453-6686

See footnotes for important warranty information
US model(s) announced January 30, 2013

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(TOGA1-4) February 2013
### IdeaCentre™ B540p (3363) - (web only models)

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<th>Multi-Touch screen</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATa disk</th>
<th>Optical</th>
<th>Mini PCIe 802.11</th>
<th>TV tuner</th>
<th>OneKey TV</th>
<th>Keyboard/Mouse</th>
<th>Wall mount Kit</th>
<th>HDMI-in</th>
<th>Win7 preload (mm/yy)</th>
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<td>OneKey TV</td>
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<td>None</td>
<td>Universal</td>
<td>2.1</td>
<td>09/12</td>
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</tbody>
</table>

#### Feature Highlights
- 23" Full HD frameless display supporting state-of-the-art multi-touch* and FPR 3D technologies*
- Integrated TV tuner*
- 2.4G wireless keyboard and mouse
- Integrated 2.0 speakers (5 watts x 2) supporting DOLBY Advanced Audio v2
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)
- *Optional feature

### Processor
Intel® Core™ i5-3450 Processor (4 cores / 4 threads, 3.10 GHz, 6M Cache)

### Implementation
Processor in FCLGA1155 socket

### Memory
16GB max / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, four 204-pin SO-DIMM sockets

### Optical
Some: Blu-ray® disc reader (no Blu-ray media burning), DVD recordable, 12.7mm, tray-in

### SATA disk
2TB, SATA 6.0Gb/s, 3.5" wide, 7200 rpm

### Memory disk controller
Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s support, integrated in chipset

### Widescreen display
23.0" (584.2mm) Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen

### Multi-touch display
Projected Capacitive Touch (PCT) technology, hardware supports 10-point multi-touch

### FPR 3D
Some: Support FPR 3D technology, 2 pairs of FPR glasses

### Camera
Camera on top of screen, HD720p resolution, fixed focus, digital microscope

### Controls
Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off, Novo Vision, mode switch (PC / HDMI IN / AV IN, depends on configuration)

### OneKey TV
Hardware TV, turns the display into a High-def TV at the click of a button (even without powering on the PC)

### Graphics
NVIDIA® GeForce® GT650M, PCI Express x16, 1GB or 2GB DDR3, DirectX 11;

### Chipset
Intel® H77 Express Chipset

### Multicard reader
Multicard reader (MMC, MS, MS PRO, SD, SDHC, SDXC)

### Ports
Rear: Two USB 3.0, two USB 2.0, ethernet (RJ-45), HDMI-out, HDMI-in (on some models), AV IN (on some models); Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm), Multicard reader

### PCle Mini Card
11b/g/n²/³ Two PCle Mini Card slots

### Tuner
TV tuner None

### Bluetooth
Bluetooth® None

### Modem
Modem None

### Ethernet
Ethernet Gigabit ethernet on planar, Realtek® RTL 8111F

### Audio support
High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2, 2.0 speakers (5 watts x 2)

### Speaker
2.4G wireless full-size keyboard, 6-row, black

### Mouse
2.4G wireless mouse, black

### Remote control
IR remote control for hardware TV (OneKey TV)

### Power supply
250 watts, universal, auto-sensing

### Dimensions
(WxHxD): 22.70" x 16.22" x 4.34"; 576.6mm x 411.9mm x 110.3mm

### Weight
From 24.25 lb (11.00 kg), vary by configuration

### Chassis
Front: black with silver decoration; Rear: black with silver decoration

### Stand
Adjustable stand (between 15° and 40°), supports cable management

### Wall mount
Meets VESA 100mm mount standard

---

**Limited Warranty**
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations): 2-year Lenovo In-Home Repair
- 9x5 Next Business Day (78Y1555)
- 3-year Lenovo In-Home Repair
- 9x5 Next Business Day (78Y1553)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

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See footnotes for important warranty information

US models announced September 19, 2012

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*Optional feature
Lenovo IdeaCentre Q180

Optional Lenovo Mini Wireless Keyboard N5902 (57Y6678)

Lenovo IdeaCentre Q180
Discrete graphics models

Lenovo IdeaCentre Q180
(Discrete graphics models)

Lenovo IdeaCentre Q180
Discrete graphics models with optical drive

Lenovo IdeaCentre Q180
(Integrated graphics models)
## IdeaCentre™ Q180 (Discrete)

### IdeaCentre Q series provide ultimate multimedia experience for home entertainment
- Tiny desktop PC, compact space-saving design, just from 22 mm wide
- Attaches to the back of selected VESA-compatible monitor for better space saving
- (Selected models) Add-on DVD reader/writer or Blu-ray Disk drive
- Lossless digital audio output with S/PDIF
- Support 1080p full HD multimedia playback and 3D gaming
- Lenovo® Rescue System provides OneKey recovery without booting into Windows

### Processor
| Model          | Processor     | GHz  | Memory | Graphics               | TV tuner | Remote control | 802.11 wireless | Color           | Keyboard/Mouse | Win7 preload | Avail date (mm/yy) |
|----------------|---------------|------|--------|------------------------|---------|----------------|-----------------|-----------------|----------------|--------------|--------------|-------------------|
| 3110-2KU       | Intel Atom™ D2550 processor (2 cores / 4 threads, 1.86GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology | 2.13 | 1MB    | HD 6450A               | None    | None           | None            | Black/Silver    | Black/Silver | 2.4GHz       | Prem 64           | 02/12               |
| 3110-2NU       | Intel Atom™ D2550 processor (2 cores / 4 threads, 2.13GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology | 2.13 | 1MB    | HD 6450A               | None    | None           | None            | Black/Silver    | Black/Silver | 2.4GHz       | Prem 64           | 07/12               |
| 57308562       | Intel Atom D2700 processor (2.13GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology | 2.13 | 1MB    | HD 7450A               | None    | None           | None            | Black/Silver    | Black/Silver | 2.4GHz       | Prem 64           | 11/12               |
| 57308563       | Intel Atom D2700 processor (2.13GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology | 2.13 | 1MB    | HD 7450A               | None    | None           | None            | Black/Silver    | Black/Silver | 2.4GHz       | Prem 64           | 11/12               |

### Memory
- 2GB or 4GB std
- 4GB max
- Integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology (2 cores / 4 threads, 1.86GHz, 1MB cache)

### Graphics
- Some: AMD Radeon™ HD 6450A Graphics, DirectX® 11, 512MB memory, Full HD (1080p) playback support
- Some: AMD Radeon HD 7450A Graphics, DirectX 11, 512MB memory, Full HD (1080p) playback support

### SATA disk
- 320GB (5400 rpm) / SATA 3.0Gb/s, 2.5" wide

### SATA controller
- Serial ATA, SATA 3.0Gb/s, integrated in NM10 chipset

### Multicard reader
- 8-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro, MS Pro Duo, MS XC)

### Chipset
- Intel NM10 Express Chipset

### Preloaded applications (only some listed)
- Lenovo Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- CyberLink PowerDVD (Blu-ray)

### Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts, 8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time)
- Service upgrade options (in eligible locations): 3-year Lenovo Onsite Repair 9x5

### 11b/g/n
- 11b/g/n wireless, Realtek RTL8188CE

### TV tuner
- None

### Remote control
- None

### Camera
- None

### Keyboard
- 2.4GHz Wireless Mini Keyboard N5902, palm-sized dimensions, keyboard and mouse (optical finger navigation) combo, via micro-size USB receiver

### Mouse
- None

### Dimensions
- W/o optical (excludes stand): (WxDxH): 6.10" x 0.87" x 7.56"; 155mm x 22mm x 192mm
- W/ optical (excludes stand): (WxDxH): 6.10" x 1.57" x 7.56"; 155mm x 40mm x 192mm

### Weight
- From 5.25 lb (2.38 kg) to 8.02 lb (3.64 kg), vary by configuration

### Chassis
- Black and silver color

### Stand
- Detachable stand (silver color)

### Mount bracket
- Mount bracket, meets the VESA 75mm and 100mm mount standard

See footnotes for important warranty information

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US model(s) announced November 28, 2012; previous model(s) on February 15 or July 25, 2012

(BAFF1-2) November 2012
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<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
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<td>Black/Silver</td>
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<td>Prem 64 10/12</td>
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</tbody>
</table>

² Some: Controller

• IdeaCentre Q series provide ultimate multimedia experience for home entertainment
• Tiny desktop PC, compact space-saving design, just from 22 mm wide
• Attaches to the back of selected VESA-compatible monitor for better space saving
• (Selected models) Add-on DVD reader/writer or Blu-ray Disk drive
• Lossless digital audio output with S/PDIF
• Support 1080p full HD multimedia playback and 3D gaming
• Lenovo Rescue System provides OneKey recovery without booting into Windows

Processor: Intel® Atom™ D2550 processor (2 cores / 4 threads, 1.86GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology

Intel Atom D2700 processor (2 cores / 4 threads, 2.13GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology

Memory: 2GB or 4GB std. 4GB max. PC3-10600 1333MHz DDR3, non-parity, one 204-pin SO-DIMM socket

* System automatically clocks down for processors with 1066MHz DDR3 memory controller


Some: AMD Radeon HD 7450A Graphics, DirectX 11, 512MB memory, Full HD (1080p) playback support

External monitor support via analog VGA DB-15 connector / digital HDMI connector

SATA disk controller: Serial ATA, SATA 3.0Gb/s, integrated in NM10 chipset

External optical: Some: Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, slot-in

Multicard reader: 8-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro, MS Pro Duo, MS XC)

Chipset: Intel NM10 Express Chipset

Front ports: Two USB 3.0, line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)

Rear ports: Four USB 2.0 (external ODD occupies one dedicated USB 2.0 port in some models), ethernet (RJ-45), monitor (VGA DB-15, HDMI), S/PDIF-out

Audio: High Definition (HD) audio, Realtek™ ALC662 codec

External speakers: None

Internal speaker: None

Ethernet: Gigabit ethernet on planar, Realtek RTL8111E-FL

Modem: None

Security chip: None

11b/g/n: 11b/g/n wireless², Realtek RTL8188CE

TV tuner: None

Remote control: None

Camera: None

Keyboard: Some: Mini Keyboard (USB connector), black

Some: 2.4GHz Wireless Mini Keyboard N5902, palm-sized dimensions, keyboard and mouse (optical finger navigation) combo, via micro-size USB receiver

Mouse: Some: Mini Optical Wheel Mouse (USB connector), black

Dimensions³ w/o optical (excludes stand): (WxHxD): 6.10” x 0.87” x 7.56”; 155mm x 22mm x 192mm with optical (excludes stand): (WxHxD): 6.10” x 1.57” x 7.56”; 155mm x 40mm x 192mm

Weight: From 5.25 lb. (2.38 kg) to 8.02 lb (3.64 kg), vary by configuration

Chassis: Black and silver color

Stand: Detachable stand (silver color)

Mount bracket: Mount bracket, meets the VESA 75mm and 100mm mount standard

Preloaded operating system: Genuine Windows® 7 Home Premium 64

Preloaded applications (only some listed):

- Lenovo Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- CyberLink PowerDVD (Blu-ray)

Limited Warranty:

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts), 8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time
- Service upgrade options (in eligible locations):
  - 2-year Lenovo onsite Repair 9x5 often Next Business Day (78Y1552)
  - 3-year Lenovo onsite Repair 9x5 often Next Business Day (78Y1553)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

ENERGY STAR® qualified

RoHS-compliant

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See footnotes for important warranty information

USB models announced November 23, 2011 or September 19 or October 24, 2012
Lenovo IdeaCentre Q190

Lenovo IdeaCentre Q190 (with optical drive)

Lenovo IdeaCentre Q190

Lenovo IdeaCentre Q190 (with optical drive)

Optional Lenovo Mini Wireless Keyboard N5902 (57Y6678)

Lenovo IdeaCentre Q190
### IdeaCentre Q190 (Windows 8)

#### Processor
- **Intel® Celeron® 887 processor** (2 cores / 2 threads, 1.50GHz, 2MB cache)
- **DDR3 memory controller (up to 1333MHz)**
- **Integrated Intel HD Graphics 8GB max**
- **Intel HD Graphics or Intel HD Graphics 3000**
- **Mobile Intel HM70 Express Chipset**
- **Mobile Intel HM76 Express Chipset**

#### Memory
- **8GB max**, **PC3-12800 1600MHz DDR3**, non-parity, one 204-pin SO-DIMM socket
- **System automatically clocks down for processors with 1333MHz DDR3 memory controller**

#### Graphics
- **Intel HD Graphics** or **Intel HD Graphics 3000**, integrated in processor
- **External monitor support via analog VGA DB-15 connector / digital HDMI connector**

#### SATA disk
- **320GB** (5400 rpm) or **500GB** (5400 rpm) / SATA 3.0Gb/s, 2.5” wide

#### SATA controller
- **Serial ATA, SATA 6.0Gb/s, integrated in HM70 or HM76 chipset**

#### External optical
- **Some**: DVD burner, dual-layer support, slot-in

#### Multicard reader
- **6-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro)**

#### Chipset
- **Mobile Intel HM70 Express Chipset** or **Mobile Intel HM76 Express Chipset**

#### Front ports
- **Two USB 3.0, line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)**

#### Rear ports
- **Four USB 2.0 (external ODD occupies one dedicated USB 2.0 port on some models)**
- **Ethernet (RJ-45), monitor (VGA DB-15, HDMI), S/PDIF-out, Kensington® Security slot**
- **High Definition (HD) audio, Realtek® ALC662 codec**

#### Audio
- **Terms and Conditions**: See footnotes for important warranty information

#### Preloaded operating system
- **Windows® 8 64-bit**

#### Preloaded applications
- **Lenovo® Rescue System**
- **Driver and Application Installation**
- **Lenovo Cloud Storage by SugarSync**
- **McAfee® Internet Security (30-Day Trial)**
- **Adobe® Reader®**
- **Microsoft Office 2010 preloaded; purchase product key to activate**
- **Cyberlink Power2Go® (DVD±RW models, Blu-ray models)**
- **Cyberlink PowerDVD® (DVD±RW models, Blu-ray models)**
- **Lenovo Support**
- **Lenovo Companion**

#### Key Features
- **IdeaCentre Q series provide ultimate multimedia experience for home entertainment**
- **Tiny desktop PC, compact space-saving design, from just 22 mm wide**
- **Attaches to the back of selected VESA-compatible monitor for better space saving**
- **(Selected models) Add-on DVD reader/writer or Blu-ray Disk drive**
- **Lossless digital audio output with S/PDIF**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**

#### Dimensions
- **WxHxD**: 6.10” x 0.87” x 7.56”
- **Weight**: 5.25 lb (2.38 kg)
- **Chassis**: Black and silver color
- **Stand**: Detachable stand (silver color)
- **Mount bracket**: Mount bracket, meets the VESA 75mm and 100mm mount standard

#### Limited Warranty
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)**
- **8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time**
- **Service upgrade options (in eligible locations)**
- **2-year Lenovo Onsite Repair 9x5** often Next Business Day (78Y1552)
- **3-year Lenovo Onsite Repair 9x5** often Next Business Day (78Y1553)
- **24x7 toll-free support for warranty issues during the warranty period via 877-453-6686**

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*See footnotes for important warranty information*  
*US model(s) announced February 21, 2013*  
© Lenovo (BAFF2-2) February 2013
### IdeaCentre™ Q190 (Windows 8) - web only models

#### Specifications

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<th>Memory</th>
<th>Graphics</th>
<th>Chipset</th>
<th>TV tuner</th>
<th>802.11 Wireless</th>
<th>Color</th>
<th>Keyboard/Mouse</th>
<th>Win8 preload</th>
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<td>2MB</td>
<td>None</td>
<td>Intel HD graphics</td>
<td>HM70</td>
<td>None</td>
<td>11b/g/n</td>
<td>Black/Silver</td>
<td>USB/USB</td>
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<td>2GBx1</td>
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<td>Intel HD graphics</td>
<td>HM70</td>
<td>None</td>
<td>11b/g/n</td>
<td>Black/Silver</td>
<td>USB/USB</td>
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<td>i3-2365M</td>
<td>1.40</td>
<td>3MB</td>
<td>1TB</td>
<td>Blu-ray</td>
<td>Intel HD 3000</td>
<td>HM76</td>
<td>None</td>
<td>11b/g/n</td>
<td>Black/Silver</td>
</tr>
<tr>
<td>57312245</td>
<td>i3-2365M</td>
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<td>Intel HD 3000</td>
<td>HM76</td>
<td>None</td>
<td>11b/g/n</td>
<td>Black/Silver</td>
</tr>
</tbody>
</table>

#### Features
- IdeaCentre Q series provide ultimate multimedia experience for home entertainment
- Tiny desktop PC, compact space-saving design, from just 22 mm wide
- Attaches to the back of selected VESA-compatible monitor for better space saving
- (Selected models) Add-on DVD reader/writer or Blu-ray Disk drive
- Lossless digital audio output with S/PDIF
- Lenovo® Rescue System provides OneKey recovery without booting into Windows

#### Processor

- **Intel® Celeron® 887 processor (2 cores / 2 threads, 1.50GHz, 2MB cache)**
- **DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics**
- **Intel Core™ i3-2365M processor (2 cores / 4 threads, 1.40GHz, 3MB cache)**
- **DDR3 memory controller (up to 1333MHz), integrated Intel HD Graphics 3000**

#### Memory

- 8GB max. **PC3-12800 1600MHz DDR3**
- Non-pantry, one 204-pin SO-DIMM socket
- System automatically clocks down for processors with 1333MHz DDR3 memory controller

#### Graphics

- **Intel HD Graphics or Intel HD Graphics 3000**, integrated in processor, external monitor support via analog VGA DB-15 connector / digital HDMI connector

#### SATA disk

- **500GB (5400 rpm)** or **1TB (5400 rpm)**
- SATA 3.0Gb/s, 2.5" wide
- **Serial ATA, SATA 6.0Gb/s, integrated in HM70 or HM76 chipset**
- **Some: DVD burner, dual-layer support, slot-in**
- **Some: Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, slot-in**

#### Multicard reader

- **6-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro)**

#### Chipset

- **Mobile Intel HM70 Express Chipset** or **Mobile Intel HM76 Express Chipset**

#### Preloaded operating system

- **Windows® 8 64-bit**

#### Preloaded applications

- **(only some listed)**
  - Lenovo® Rescue System
  - Driver and Application Installation
  - Lenovo Cloud Storage by SugarSync
  - McAfee® Internet Security (30-Day Trial)
  - Adobe® Reader®
  - Microsoft Office 2010 preloaded; purchase product key to activate
  - Cyberlink PowerDVD (DVD±RW models, Blu-ray models)
  - Cyberlink PowerDVD (DVD±RW models, Blu-ray models)
  - Lenovo Support
  - Lenovo Companion

#### Warranty

- **5-year parts warranty**
- **3-year labor warranty**
- **2-year Lenovo Onsite Repair 9x5**
- **Next Business Day Service (if eligible locations)**
- **2-year Lenovo Onsite Repair 9x5**
- **Next Business Day Service (if eligible locations)**

### Footnotes

- [1] Windows 8 64-bit
- [2] Preloaded applications (only some listed)
- [3] ENERGY STAR® qualified
- [4] RoHS-compliant
- [5] 1-year parts and labor
- [6] Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)
- [7] 8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time
- [8] Service upgrade options (in eligible locations)
- [9] 2-year Lenovo Onsite Repair 9x5
- [10] Next Business Day Service (78Y1552)
- [11] 3-year Lenovo Onsite Repair 9x5
- [12] Next Business Day Service (78Y1553)
- [13] 24/7 toll-free support for warranty issues during the warranty period
- [14] via 877-453-6686

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See footnotes for important warranty information

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(BAFF2-1) February 2013

US model(s) announced February 21, 2013;
previous model(s) on December 13, 2012 or January 30, 2013
### IdeaCentre™ D400 (3013)

**Type-model** | **Processor** | **GHz** | **L2 cache** | **Memory** | **SATA disks** | **SATA optical** | **Graphics** | **eSATA** | **Ethernet** | **Color** | **Preload** | **Avail date** |
---|---|---|---|---|---|---|---|---|---|---|---|---|
3013-1AU | Atom 230 | 1.60 | 512KB | 1GB | 1TB | None | None | GMAD 950 | eSATA | Gigabit | None | GMA 950 | Windows Home Server | Sep 09 |
3013-1BU | Atom 230 | 1.60 | 512KB | 1GB | 2TB | None | None | GMAD 950 | eSATA | Gigabit | None | GMA 950 | Windows Home Server | Sep 09 |
3013-1DU | Atom 230 | 1.60 | 512KB | 1GB | 2TB | None | None | GMAD 950 | eSATA | Gigabit | None | GMA 950 | Windows Home Server | Sep 09 |
3013-1AU | Atom 230 | 1.60 | 512KB | 1GB | 1TB | None | None | GMAD 950 | eSATA | Gigabit | None | GMA 950 | Windows Home Server | Sep 09 |

- **A Digital home storage, smaller than a 9 inch cube and built to store/share music, movies, files and more.**
- **Easy plug-and-play set up and convenient remote access.**
- **Provides four 3.5 inch bays for hard disks, up to 8TB capacity.**
- **Easy USB file transfer, pressing one button to copy USB drive contents to the internal hard drives.**

### Processor

**Implementation**

- Intel® Atom™ Processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache
- Processor in Micro-FCBGA package in BGA437 socket

**Memory**

- 1GB std, 2GB max, PC2-6400 800MHz DDR2
- Non-parity, one 240-pin DIMM socket
- Non-Italics: standard memory in socket; no sockets available

**Graphics**

- Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory, no monitor ports, remote access via network

**SATA disks**

- 1TB or 2TB std, up to 8TB capacity, SATA 3Gb/s, 7200 rpm
- Four hard disk bays, tool-less, support hot-swap

**Disk bays**

- Bay used in some models

**SATA controller**

- Serial ATA, SATA 3.0Gb/s, integrated in ICH7

**SATA DVD±RW**

- None

**SATA cables**

- Four SATA cables (each 1-drop to device), Four SATA connectors

**eSATA port**

- One external SATA (eSATA) port in rear

**Diskette drive**

- None

**Media reader**

- None

**Chipset**

- Intel 945GC Express Chipset, I/O Controller Hub 7 RAID [ICH7R] (SATA 3.0Gb/s, ethernet MAC, PCI 2.3, USB, LPC bus)

**Front ports**

- One USB 2.0 with USB copy button (Easy USB file transfer function)

**Rear ports**

- Four USB 2.0, one eSATA, ethernet (RJ-45)

**Audio**

- None

**External speakers**

- None

**Internal speaker**

- None

**Ethernet**

- Gigabit ethernet on planar, Marvell® 88E8071

**Modem**

- None

**Security chip**

- None

**Keyboard**

- None

**Mouse**

- None

**Power supply**

- 200 watts, universal, auto autosensing

**Security**

- Security slot (in rear for optional Kensington® Microsaver® cable)

### Small Form Factor

- Black color bezel
- 7.9" W X 8.2" D X 8.3" H
- 200mm W X 208.6mm D X 212mm H
- 14.3 lb (6.5 kg) for maximum configuration

**Bay**

- Bay ①: 3.5", 1" high, external, standard disk
- Bay ②: 3.5", 1" high, external, optional disk
- Bay ③: 3.5", 1" high, external, optional disk
- Bay ④: 3.5", 1" high, external, optional disk

### Data protection features

- Back up all your home digital devices automatically
- Duplicate important data automatically, copy designated data to two internal hard drives for added safety (some models)
- Inbuilt flash drive allows easy recovery and prevents data lost in the event of a system problem

### Preloaded operating system®

- Genuine Windows® Home Server

### Preloaded applications®

- LightsOut
- iTunes Server
- LED brightness control
- One Key USB backup
- IP address configuration
- System Information

### Client applications (Needs customer installation, Client software CD included)

- Windows Home Server Connector Software
- Lenovo Home Server EasyAccess utility

### Limited Warranty

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts), 8 am - 5 pm, Mon - Fri coverage excluding holidays, often next business day response time
- Service upgrade options (in eligible locations):
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

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US models announced September 1, 2009

(HS1-1) September 2009
### Partial list of accessories supported on:
**IdeaCentre A, B, C, D, K, and Q series desktops**

#### Storage and removable storage
- Lenovo Portable DVD Burner DB50 (black) 57Y6487
- Lenovo Portable DVD Burner DB50 (white) 57Y6488

#### Keyboard
- Lenovo Wired Keyboard K4803A (black) 57Y6566
- Lenovo Mini Wireless Keyboard N5901A \(^{12} \) 57Y6599 \( \text{ann 10/26/10} \)
- Lenovo Mini Wireless Keyboard N5901 \(^{12} \) (blk) 57Y6336 \( \text{ann 12/08/09} \)

\(^{12}\) Wireless via 2.4GHz technology using a micro-size USB receiver.

#### Mouse
- Lenovo Optical Mouse A6010 (red) 57Y6483
- Lenovo Optical Mouse A6010 (black) 57Y6255
- Lenovo Mini Optical Mouse S10B (white) 55Y9358
- Bluetooth Laser Mouse N6901A (glossy black) 57Y6482
- Lenovo Wireless Mouse N30B (black) 55Y9360
- Wireless Mouse N3903A (metal) 57Y6596
- Wireless Mouse N3903A (coffee) 57Y6666 \( \text{ann 01/25/11} \)
- Wireless Mouse N3902A (black) 57Y6574
- Wireless Mouse N3902A (red) 57Y6673 \( \text{ann 01/25/11} \)

#### Multimedia
- Lenovo Headset P550 55Y2065
- Lenovo Headset P950 (black) 57Y6605 \( \text{ann 02/08/11} \)
- Lenovo mini speaker M220 55Y2033
- Lenovo speaker M0520 (black) 57Y6360 \( \text{ann 02/08/11} \)
- Lenovo speaker M0520 (red) 57Y6361 \( \text{ann 02/08/11} \)

For more information on accessories:
- [www.lenovo.com/accessories](http://www.lenovo.com/accessories)
- [www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)
- [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)
- [www.lenovoquickpick.com](http://www.lenovoquickpick.com)

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Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPY A/B676. Lenovo makes no representation or warranty regarding third party products or services.

1 Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.

2 Hard disk drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

3 Customer Replacement Units (CRUs) are designed to be replaced by customers during the applicable warranty period. Lenovo will send a technician onsite to perform a repair if remote telephone diagnosis does not isolate the problem, if customer replaceable parts are unable to resolve the problem, or at the request of the customer. For a list of customer replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges.

4 Wireless capability: Requires compatible wireless-enabled options sold separately.

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 Maximum memory capacity may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.

7 Memory: For PCs without a separate video card, memory supports both system and video. Accessible system memory is less than the amount stated, depending on video mode.

8 Service upgrade options: 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.

9 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.

10 Response times may vary. May exclude some holidays. Telephone support may be subject to additional charges.

20 Operating System: Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

21 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, 1f1b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

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