Personal Systems Reference
Lenovo IdeaCentre Desktops
2008 - 2013 Withdrawn

Last Update: April 2014 - Version 452

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IdeaCentre™ K410 (1168) - withdrawn

**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)

**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, 7,200 rpm

**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

**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)

**Audio**
- 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, PCle 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”, 1.0” high, no access, standard disk
- Bay 4: 3.5”, 1.0” high, no access, optional disk
- Bay 5: 3.5”, 1.0” high, access, optional USB portal 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

**Limited Warranty**
- 1-year parts and labor
- 1-year parts and labor (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 877-453-6886

**Preloaded applications**
- Only some listed
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® AntiVirus Plus (60 days of virus definitions)
- Adobe® Flash® Player
- Power Control Switch
- CyberLink PowerDVD (BD burner)
- Microsoft Office 2010 preloaded; purchase product key to activate
- Windows Live Essentials

See footnotes for important warranty information
US models withdrawn effective March 2014
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**IdeaCentre™ K410 (Windows 8) - withdrawn**

**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)
  - Power Control Switch
  - Adobe® Reader®
  - Cyberlink PowerDVD (DVD±RW)
  - Cyberlink PowerGo (DVD±RW)
  - 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 877-453-8686

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**Part number**  | **Slot x bay**  | **Processor**  | **Max turbo (GHz)**  | **Memory**  | **SATA disk**  | **SATA optical**  | **Graphics**  | **TV tuner**  | **Remote control**  | **Power supply**  | **Win8 preload**  | **Avail date**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
57308927 5x4 | 3-3220 3.30 | 2×4GB 1TB* | Dock only | DVD±RW | Intel HD 2500 | None | None | 11b/g/n | 280W | USB 3.0 | Win8 64 | 11/12
57308565 5x4 | 3-3330 3.00 | 4GBx2 | Dock only | DVD±RW | Intel HD 2500 | None | None | 11b/g/n | 280W | USB 3.0 | Win8 64 | 11/12
57308564 5x4 | 3-3330 3.00 | 4GBx2 | Dock only | DVD±RW | Intel HD 2500 | None | None | 11b/g/n | 280W | USB 3.0 | Win8 64 | 11/12
57308563 5x4 | 3-3770 3.40 | 3.90 | 4GBx2 | 2TB | Dock only | DVD±RW | GF GT 620 | None | None | 11b/g/n | 280W | USB 3.0 | Win8 64 | 11/12

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- 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
### IdeaCentre K430 (3109) - withdrawn

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

#### Preloaded applications (only some listed)
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® AntiVirus Plus (60 days of virus definitions)
- Adobe® Flash® Player
- Power Control Switch
- CyberLink Power2Go (DVD±RW, BD burner)
- Cyberlink PowerDVD (BD burner)
- Microsoft Office 2010 preloaded; purchase product key to activate
- Windows Live Essentials

#### 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

US models withdrawn effective March 2014

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| 3109-1NU 5x4 | i7-3770 3.40 3.90 4GBx2 | 2TB Dock only DVD±RW GT 545 1.5G None None 11b/g/n 450W USB Prem 64 07/12
| 3109-2FU 5x4 | i5-2320 3.00 3.30 4GBx2 | 2TB Dock only DVD±RW GT 620 1G None None 11b/g/n 280W USB Prem 64 07/12
| 3109-2IU 5x4 | i7-3770 3.40 3.90 4GBx2 | 2TB Dock only DVD±RW GT 620 1G None None 11b/g/n 280W USB Prem 64 07/12
| 3109-2HU 5x4 | i7-3770 3.40 3.90 4GBx3 | 2TB Dock only DVD±RW GT 545 1.5G None None 11b/g/n 280W USB Prem 64 07/12

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

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

#### Graphics
- **Some:** NVIDIA® GeForce® GT 620, PCI Express® x16, 1GB memory, DirectX 11, one VGA 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

#### SATA disk
- 2TB, SATA 6.0Gb/s, 7200 rpm
- mSATA SSD: None
- USM portable disk: None
- 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 6.0Gb/s, integrated in chipset, RAID 0 support
- SATA optical: Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
- SATA cables: Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, two SATA 6.0Gb/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® Z75 Express Chipset
- Intel® Core™ i7-3770 Processor™

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

#### Rear ports
- Four USB 2.0, 10/100/1000 Gigabit Ethernet (RJ-45), monitor (VGA, HDMI, DVI-I), monitor (VGA, HDMI, DVI-I) on selected models
- * Onboard VGA and HDMI connectors are disabled on discrete 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
- High Definition (HD) audio, ALC892 codec

#### Audio
- Speaker: None
- Wireless: 11b/g/n wireless®, PCle 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: Some: 280 watts, universal, manual switch
- Some: 450 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
- Tool-free cover removal
- Toolless disk, optical drive removal

#### Bay
- Full-height, full-height, PCI Express x16 Ver 3.0 *
- 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 2.0 *
- 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

See footnotes for important warranty information

US models withdrawn effective March 2014

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### IdeaCentre™ K430 (Windows 8) - withdrawn

#### Processor
- Intel® Core™ i5-3330P Processor (4 cores / 4 threads, 3.10 GHz, 6M Cache), Turbo Boost Technology 2.0 (up to 3.40 GHz), DDR3 memory controller (up to 1600MHz)  
- 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
- Turbo Boost Technology 2.0 (up to 3.90 GHz), integrated Intel HD Graphics 4000, 4 cores / 8 threads
- Intel® i7-3770 Processor (Core (4 cores / 4 threads, 3.10 GHz, 6M Cache), 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0, integrated Intel HD Graphics 4000, 4 cores / 8 threads

#### 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
- NVIDIA® GeForce® GT 660, PCI Express x16, 1GB DDR3, DirectX® 11, one VGA connector, one HDMI connector, HDCP-compliant
- 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

#### SATA disk
- 1TB (500GB x 2, preset RAID 0) or 2TB (2TB x 1), SATA 6.0Gb/s, 7200 rpm
- mSATA SSD: None
- 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 6.0Gb/s, integrated in chipset, RAID 0 support
- SATA optical: Multi-Brumer DL DVD
- 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)
- Two SATA 6.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)
- Two SATA 6.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)
- Two SATA 6.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)

#### Audio
- 9-in-1 media reader (MS, MS Pro, SD, SDHC, SDXC, MMC, CF I/CF II, MD)
- High Definition (HD) audio, ALC892 codec
- Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out
- * Onboard VGA and HDMI connectors are disabled on discrete models graphics card)

#### Rear audio ports
- Four USB 2.0, ethernet (RJ-45), monitor* (VGA, HDMI, DVI-I, or DisplayPort, depends on graphics card)
- Two USB 3.0, microphone (3.5mm), headphone (3.5mm)
- Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, and one eSATA (occupied on USM portable HDD models)

#### Chipset
- Intel® Z75 Express Chipset
- Onboard VGA and HDMI connectors are disabled on discrete models
- Line-in (3.5mm), line-out [Front out L/R (3.5mm), microphon- (3.5mm), Cen/LFE (3.5mm), Surround out L/R (3.5mm), S/PDIF out
- High Definition (HD) audio, ALC892 codec
- None
- 11b/g/n wireless*, PCle Half Mini Card, Realtek® RTL8188CE
- Gigabit ethernet on planar, Realtek RTL8111E
- None
- Full-size keyboard (USB connector), Fn keys, black
- Optical Wheel Mouse (USB connector), black
- 280 watts, universal, manual switch
- • 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
- • 5.25”, 1.6” high, access, standard optical
- • 5.25”, 1.6” high, access, open
- • 3.5”, 1” high, no access, standard disk
- • 3.5”, 1” high, access, standard optical
- • 3.5”, 1” high, access, optical USM portable disk
- 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
- * 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

#### 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 (with limited onsite service for selected parts)
  - 3-year Lenovo Onsite Repair (with limited onsite service for selected parts)
  - 24x7 toll-free support for warranty issues during the warranty period

See footnotes for important warranty information.

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### IdeaCentre™ K430 (Windows 8) - web only models - withdrawn

#### Personal Systems Reference (PSREF)

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<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>Win8 preload</th>
<th>Avail date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>57312227</td>
<td>5x4</td>
<td>Intel&lt;sup&gt;®&lt;/sup&gt; 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)</td>
<td>4GBx4</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>625W</td>
<td>2.4G</td>
<td>Win8 64</td>
<td>02/13</td>
<td></td>
</tr>
<tr>
<td>57312225</td>
<td>5x4</td>
<td>Intel&lt;sup&gt;®&lt;/sup&gt; 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)</td>
<td>500GB</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>625W</td>
<td>2.4G</td>
<td>Win8 64</td>
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</tbody>
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#### Additional Information

- **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<sup>®</sup> 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<sup>a</sup>, 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, DirectX<sup>®</sup> 11, occupy two slots, one VGA connector, one HDMI connector, HDCP-compliant
- **Some**: NVIDIA GeForce GT 630, PCI Express x16, 2GB DDR3, DirectX<sup>®</sup> 11, 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

- 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

- Bluray<sup>™</sup> 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/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-out (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

- Some: 11b/g/n wireless<sup>a</sup>, PCIe Half Mini Card, Realtek<sup>®</sup> RTL8188CE

#### Ethernet

- Gigabit ethernet on planar, Realtek RTL8111E

#### Modem

- None

#### TV tuner

- None

#### Remote control

- None

#### Keyboard/Mouse

- 2.4G wireless full-size keyboard, 6-row, black
- 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
  - 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 3.0<sup>a</sup> *
- **Slot 2**: half-length, full-height, PCI Express x1 2.0<sup>a</sup> **
- **Slot 3**: half-length, full-height, PCI Express x16 Ver 3.0<sup>a</sup>*
- **Slot 4**: half-length, full-height, PCI Express x1 Ver 2.0<sup>a</sup> **
- * 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

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**Limited Warranty**

- 1-year parts and labor Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts<sup>a</sup>, 8 am - 5 pm)
- Service upgrade options (in eligible locations):<sup>3</sup>
  - 2-year Lenovo Onsite Repair
  - 3-year Lenovo Onsite Repair (Avail 2x7<sup>a</sup> toll-free support for warranty issues during the warranty period<sup>a</sup> via 877-453-6686

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See footnotes for important warranty information

US models withdrawn effective March 2014 © Lenovo

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

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<td>3.00 GHz</td>
<td>4GBx4</td>
<td>2TB</td>
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<td>GT 620</td>
<td>1G</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>280W USB</td>
<td>Prem 64</td>
<td>07/12</td>
</tr>
<tr>
<td>3109-3CU</td>
<td>5x4</td>
<td>i5-2320</td>
<td>3.00 GHz</td>
<td>4GBx4</td>
<td>2TB</td>
<td>None</td>
<td>BD burner</td>
<td>GT 545</td>
<td>1.5G</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>280W USB</td>
<td>Prem 64</td>
<td>07/12</td>
</tr>
<tr>
<td>3109-2SU</td>
<td>5x4</td>
<td>i7-3770</td>
<td>3.40 GHz</td>
<td>4GBx4</td>
<td>2TB</td>
<td>None</td>
<td>BD burner</td>
<td>GT 7570</td>
<td>2G</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>280W USB</td>
<td>Prem 64</td>
<td>07/12</td>
</tr>
<tr>
<td>3109-2HU</td>
<td>5x4</td>
<td>i7-3770</td>
<td>3.40 GHz</td>
<td>4GBx3</td>
<td>2TB</td>
<td>None</td>
<td>BD burner</td>
<td>HD 7570</td>
<td>2G</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>280W USB</td>
<td>Pro 64</td>
<td>12/12</td>
</tr>
</tbody>
</table>

- **Power Control Switch:** color-codred 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 HD and drive**
- **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),** Two SATA 6.0Gb/s connections, and one eSATA (occupied on USM portable HDD models)
- **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, PC-12800 1600MHz DDR3, non-parity, four 240-pin DIMM sockets

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

**Graphics**

- **Some:** NVIDIA® GeForce® GT 620, PCI Express x16, 1GB memory, DirectX® 11, one VGA 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
- **Some:** AMD Radeon™ HD 7450, PCI Express x16, 1GB memory, DirectX 11, two SATA 6.0Gb/s connections, and one SATA (occupied on USM portable HDD models)
- **Some:** AMD Radeon™ HD 7570, PCI Express x16, 2GB memory, DirectX 11, two SATA 6.0Gb/s connections, and one SATA (occupied on USM portable HDD models)

**SATA disk**

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

**mSATA SSD**

None

**USM portable disk**

None

**SATA controller**

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

**SATA optical**

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

Some: 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 SATA (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 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 on selected models)

* Onboard VGA and HDMI connectors are disabled on discrete models

**Rear audio ports**

Line-in (3.5mm), line-out [Front out/L/R] (3.5mm), microphone-in (3.5mm), Cinch/LFE (3.5mm). Surround out L/R (0.5mm), S/PDIF out

**Audio**

High Definition (HD) audio, ALC892 codec

**Speaker**

None

**Wireless**

None

**Ethernet**

Gigabit ethernet on planar, Realtek RTL8111E

**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 disk
- 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 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

**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

US models withdrawn effective March 2014

(ROAT1-2) December 2012 © Lenovo
**Multi 57312891 i3-3130M 4GBx1 23” FHD Multi Intel HD 4000 1TB None DVD±RW 11b/g/n™ None None 120W 2.4G Win8 64 02/13**

- 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>Memory</th>
<th>Widescreen display</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</th>
<th>Mouse</th>
<th>Win8 preload</th>
<th>Avail date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td>8GB max7 / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
<td>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</td>
<td>Mobile Intel HM76 Express Chipset</td>
<td>DVD burner, dual-layer support, not removable, 12.7mm high, tray-in</td>
<td>Serial ATA, SATA 6.0Gb/s, integrated in chipset</td>
<td>Touch-sensitive buttons for display on/off, mode switch (PC / HDMI IN / AV IN), Novo Vision, volume up/down, brightness up/down</td>
<td>Two PCI Express Mini Card slots</td>
<td>TV tuner</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21.60 lb (9.8kg), weight may vary by configuration</td>
<td>Silver color; metal shell (Aluminium base cover and hinge), plastic back cover</td>
<td>Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some model, microSD, Secure Digital Card, MultiMedia Card, Memory Stick, Memory Stick PRO, Mobile Intel HM76 Express Chipset</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>None</td>
<td></td>
</tr>
</tbody>
</table>

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

**Preloaded applications**
- Lenovo® Rescue System
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- Lenovo E-mail 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
- Eternote
- Amazon Kindle
- Lenovo Support
- Rara Streaming
- Lenovo Companion

120-watt or 150-watt AC adapter 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), excluding holidays, next business day response time
- Service upgrade options (in eligible locations): 1-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
US models withdrawn effective March 2014
© Lenovo (CUBA1-1) February 2013
### IdeaCentre™ A520 (Windows 8) - web only models - withdrawn

#### Technical Specifications

<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>57308316</td>
<td>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</td>
<td>4GBx1</td>
<td>23” FHD</td>
<td>Multi</td>
<td>Intel HD 3300</td>
<td>500GB</td>
<td>None</td>
<td>BD player</td>
<td>11b/g/h</td>
<td>None</td>
<td>120W</td>
<td>2.4G</td>
<td>Win8 64</td>
<td>03/13</td>
<td></td>
</tr>
</tbody>
</table>

#### Features

- 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

#### Processor

- Intel® Core™ i3-2328M

#### Memory

- 8GB max

#### SATA Blu-ray™

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

#### Graphics

- Intel HD Graphics 3000, integrated in processor, uses main memory, DirectX® 10.1

#### Storage

- 500GB (5400 rpm) / SATA 3.0Gb/s, 2.5” wide, 9.5mm high

#### Ports

- Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some models

#### Dimensions

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

#### Security

- Kensington® Security slot on the rear of base

See footnotes for important warranty information

US models withdrawn effective March 2014

© Lenovo (CUBA1-2) March 2013
Lenovo IdeaCentre A720

Lenovo IdeaCentre A720

Lenovo IdeaCentre A720 with optional 3-in-1 mouse

Lenovo IdeaCentre A720

Lenovo IdeaCentre A720

Lenovo IdeaCentre A720

Lenovo IdeaCentre A720
### Lenovo IdeaCentre A720 (2564)

**Model:** 2564-3FU

**Processor:** Intel Core i5-3210M (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

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

**Monitor:** 27" 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

**Camera:** HD 720p Camera on top of screen, supports H.264 encoding, Skype certified, fixed focus, with digital microphone

**Audio:** 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 1GB, DirectX 11, NVIDIA CUDA technology

**Chipset:** Mobile Intel HM76 Express Chipset

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

**Preloaded applications:** (only some listed)
- Lenovo Rescue System
- Driver and Application Installation
- Cyberlink YouCam
- Skype
- Dolby Home Theater
- Lenovo Camera Fun Zone
- McAfee Internet Security (30-Day Trial)
- Cyberlink PowerDVD (BD player)
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo VeriTouch
- PhotoStudio Paint
- Lenovo Ebook and Quick Notes
- Touch Games (Touch models)
- Angry Birds
- Fruit Ninja
- Snowflake Games (Air Hockey, Bugs, Card Collect, Piano, and Wong)
- Windows Live Essentials
- 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 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

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**Specifications:**

<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>Win 7 preload</th>
<th>Win 7 preload (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2564-3FU</td>
<td>i5-3210M</td>
<td>4+2GB</td>
<td>27&quot; FHD Multi</td>
<td>GT 630M 1GB</td>
<td>500GB</td>
<td>None</td>
<td>BD player</td>
<td>11b/g/n/54</td>
<td>ATSC</td>
<td>150W</td>
<td>2.4G</td>
<td>IR remote</td>
<td>150W</td>
<td>2.4G</td>
<td>IR remote 07/12</td>
</tr>
<tr>
<td>2564-2FU</td>
<td>i7-3610QM</td>
<td>4GBx2</td>
<td>27&quot; FHD Multi</td>
<td>GT 630M 1GB</td>
<td>750GB</td>
<td>None</td>
<td>BD player</td>
<td>11b/g/n</td>
<td>ATSC</td>
<td>150W</td>
<td>2.4G</td>
<td>IR remote</td>
<td>150W</td>
<td>2.4G</td>
<td>IR remote 07/12</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

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See notes for important warranty information
US models withdrawn effective March 2014
© Lenovo
(COBR1-2) July 2012
### IdeaCentre™ A720 (Windows 8) - withdrawn

**Personal Systems Reference (PSREF)**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-Touch display</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>mSATA SSD</th>
<th>SATA optical</th>
<th>PCIe Mini Card [COBR1-3]</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>Keyboard/</th>
<th>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>8GB RAM  / 8x12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
<td>27&quot; (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</td>
<td>Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch</td>
<td>NVIDIA GeForce GT 630M, PCI Express x16, DirectX, non-parity, PC3-12800 1600MHz DDR3, integrated in chipset</td>
<td>Serial ATA, SATA 6.0Gb/s, integrated in chipset</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>11b/g/n Wi-Fi</td>
<td>None</td>
<td>None</td>
<td>150W</td>
<td>2.4G</td>
<td>2.4G</td>
<td>2.4G</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>8GB RAM  / 8x12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
<td>1152 x 720 HD (1366x768) (1920x1080) TFT color, LED backlight, 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>NVIDIA GeForce GT 630M, PCI Express x16, DirectX, non-parity, PC3-12800 1600MHz DDR3, integrated in chipset</td>
<td>Serial ATA, SATA 6.0Gb/s, integrated in chipset</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>11b/g/n Wi-Fi</td>
<td>None</td>
<td>None</td>
<td>150W</td>
<td>2.4G</td>
<td>2.4G</td>
<td>2.4G</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>8GB RAM  / 8x12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
<td>27&quot; (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</td>
<td>Projected Capacitive Touch (PCT) technology, supports 10-point multi-touch</td>
<td>NVIDIA GeForce GT 630M, PCI Express x16, DirectX, non-parity, PC3-12800 1600MHz DDR3, integrated in chipset</td>
<td>Serial ATA, SATA 6.0Gb/s, integrated in chipset</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>11b/g/n Wi-Fi</td>
<td>None</td>
<td>None</td>
<td>150W</td>
<td>2.4G</td>
<td>2.4G</td>
<td>2.4G</td>
</tr>
</tbody>
</table>

#### Key Features:
- **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

---

**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
- IdeaStations
- Lenovo Companion

---

**Specifications**

- **Processor**
  - Intel® Core™ i5-3210M or i7-3630QM
  - Intel® Core™ i5-3230M
  - Intel® Core™ i7-3630QM

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

- **Graphics**
  - NVIDIA GeForce GT 630M or GT 630M 1GB

- **Storage**
  - 750GB SATA drive

- **Display**
  - 27" Full HD (1920x1080) TFT color

- **Input/Output**
  - 11b/g/n wireless
  - One USB 3.0, HDMI in, HDMI out
  - Rear: SDHC, SDXC)

- **Power**
  - 150-watt AC adapter

---

**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 (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**

US models withdrawn effective March 2014

(COBR1-3) February 2013
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 systems 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

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

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

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: Mobile Intel HM76 Express Chipset

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 PCI Express Mini Card slots
11b/g/n wireless®, Realtek® RTL8188CUS, via internal USB
Some: ATSC tuner, supports analog and digital signal, PCIe Mini Card

Bluetooth™: Bluetooth 2.1 wireless + EDR

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: Some: MCE remote control, via IR

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

Chassis: Silver color; metal shell (Aluminium 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

Preloaded operating system: Genuine Windows® 7 Home Premium 64
Preloaded applications: (only some listed)
Lenovo® Rescue System
Driver and Application Installation
CyberLink YouCam
Skype
Dolby Home Theater
Lenovo Camera Fun Zone
McAfee® Internet Security (30-Day Trial)
Cyberlink Power2Go (DVD±RW, BD player)
Cyberlink PowerDVB® (BD player)
Lenovo IdeaTouch (Touch models)
– PowerCinema
– Lenovo VeriTouch
– PhotoStudio Paint
– Lenovo Ebook and Quick Notes
– Windows Live Essentials
– 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 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
- 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

Processor
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

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

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

Wide screen 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, 500:1 contrast ratio

Multi-touch
Projected Capacitive Touch (PCT) technology, supports 10-point 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
Two USB 2.0 and one USB 3.0, ethernet (RJ-45), TV tuner connector on some model, 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

Memory
11b/g/n/a

TV tuner
ATSC TV tuner, PCIe Mini Card

Bluetooth™
Bluetooth 4.0 wireless

Modem
None

Audio support
Gigabit ethernet on planar, Realtek® RTL8111F

Security
Power-on password, administrator password

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

Mouse
2.4G wireless Laser Wheel Mouse N70, 1200dpi, silver

Remote control
Remote control, via IR

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

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

Chassis
Silver color; metal shell (Aluminium 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

Preloaded operating system
- Windows® 8 64-bit

Preloaded applications
- Only listed
- Lenovo® Rescue System
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- CyberLink YouCam
- Dolby Home Theater
- McAfee® Internet Security
- 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
- 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 877-453-6885

See footnotes for important warranty information
US models withdrawn effective March 2014
© Lenovo
(COBR1-4) June 2013
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)
### IdeaCentre™ Horizon 27 Table PC (Windows 8) - web only - withdrawn

#### 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>PCIe Mini Card slot</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Battery</th>
<th>Keyboard/Joystick</th>
<th>E-dice / Striker</th>
<th>Win8 preload</th>
<th>Avail date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>57315058</td>
<td>i5-3337U</td>
<td>4GBx2</td>
<td>27” FHD 10-point</td>
<td>None</td>
<td>GT 620M 2GB</td>
<td>1TB</td>
<td>None</td>
<td>8-cell</td>
<td>2.4G</td>
<td>None</td>
<td>11b/g/n</td>
<td>None</td>
<td>None</td>
<td>8-cell</td>
<td>2.4G x1 / x2 / x2</td>
</tr>
<tr>
<td>57315077</td>
<td>i7-3537U</td>
<td>4GBx2</td>
<td>27” FHD 10-point</td>
<td>None</td>
<td>GT 620M 2GB</td>
<td>1TB</td>
<td>None</td>
<td>8-cell</td>
<td>2.4G</td>
<td>None</td>
<td>11b/g/n</td>
<td>None</td>
<td>None</td>
<td>8-cell</td>
<td>2.4G x1 / x4 / x4</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 Home Theater 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
- 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery - type</td>
<td>Optional battery on selected models, Lithium Polymer 8-cell, 98Wh</td>
</tr>
<tr>
<td>Battery - life</td>
<td>Up to 2.0 hr</td>
</tr>
<tr>
<td>Dimensions</td>
<td>(WxHxD): 27.19” x 16.95” x 1.17”; 690.5mm x 430.5mm x 29.8mm</td>
</tr>
<tr>
<td>Weight</td>
<td>18.21 lb (8.26kg), weight may vary by configuration</td>
</tr>
<tr>
<td>Chassis</td>
<td>Rear: Silver color; metal hinge and stand (Aluminum alloy / Tool steel), PC/ABS back cover</td>
</tr>
<tr>
<td>Stand</td>
<td>Adjustable stand (between 15° and 90°)</td>
</tr>
<tr>
<td>Wall mount</td>
<td>None</td>
</tr>
<tr>
<td>Security lock</td>
<td>None</td>
</tr>
<tr>
<td>Battery - type</td>
<td>None</td>
</tr>
<tr>
<td>Dimensions</td>
<td>120-watt AC adapter ENERGY STAR® qualified RoHS-compliant</td>
</tr>
</tbody>
</table>

**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 holiday weekends, next business day response time)
Lenovo IdeaCentre B305
with optional bluetooth keyboard and mouse

Lenovo IdeaCentre B305
AV IN and TV IN on some models

Lenovo IdeaCentre B305

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

<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 Multi</td>
<td>3000</td>
<td>500GB* DVD:RW 11b/g/n</td>
<td>PS2/USB</td>
<td>Prem 64</td>
<td>Jun 10</td>
<td></td>
<td></td>
<td></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 Multi</td>
<td>3000</td>
<td>1TB DVD:RW</td>
<td>BT/BT</td>
<td>Prem 64</td>
<td>Aug 10</td>
<td></td>
<td></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 Multi</td>
<td>5450</td>
<td>40GB DVD:RW 11b/g/n</td>
<td>TV IR remote</td>
<td>BT/BT</td>
<td>Prem 64</td>
<td>Jun 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4031-1HU</td>
<td>Athlon II X4 600e</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; FHD Multi</td>
<td>5450</td>
<td>1TB DVD:RW</td>
<td>TV IR remote</td>
<td>BT/BT</td>
<td>Prem 64</td>
<td>Jun 10</td>
<td></td>
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<tr>
<td>4031-3CU</td>
<td>Athlon II X3 400e</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; FHD Multi</td>
<td>3000</td>
<td>1TB DVD:RW</td>
<td>BT/BT</td>
<td>Prem 64</td>
<td>Mar 11</td>
<td></td>
<td></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)

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**Processor**

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

<table>
<thead>
<tr>
<th>SATA DVD:RW</th>
<th>SATA disk</th>
<th>DVD burner, dual-layer support, fixed, not removable, tray-in 500GB, 640GB, or 1TB, SATA 3.0gb/s, 7200 rpm, 3.5&quot; wide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Widescreen display</td>
<td>Camera</td>
<td>21.5&quot; (546.1mm) Full HD (WXUGA 1920x1080) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio</td>
</tr>
<tr>
<td>Controls</td>
<td>Graphics</td>
<td>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</td>
</tr>
<tr>
<td>Chipset</td>
<td>Multicard reader</td>
<td>AMD 760G Chipset with HyperTransport 3.0 and PCI Express 2.0 support; SB710 south bridge 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC)</td>
</tr>
<tr>
<td>Ports</td>
<td>PCIe Mini Card</td>
<td>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) Two PCI Express Mini Card slots 11b/g/n/a VESA Card, Broadcom® chip or Atheros chip</td>
</tr>
<tr>
<td>Security</td>
<td>Keyboard</td>
<td>Some: Bluetooth full-size keyboard, 6-row, 104-key, black Some: Full-size keyboard (PS/2 connector), Fn keys, black</td>
</tr>
<tr>
<td>Mouse</td>
<td>Remote control</td>
<td>Some: Bluetooth Optical Wheel Mouse, black Some: Optical Wheel Mouse (USB connector), black</td>
</tr>
</tbody>
</table>
| Dimensions | Weight | (WxHxD): 20.7" x 16.0" x 4.37"; 526mm x 407mm x 111mm Touch models: 24.7 lb (11.2kg) | Adjustable stand (between 15° and 40°)

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**See footnotes for important warranty information**

US models withdrawn effective March 2014 © Lenovo (BBDS1-1) March 2011

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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 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 877-453-6886
**Personal Systems Reference (PSREF)**

### IdeaCentre™ B305 (4031) - Windows 7 (web only models) - withdrawn

<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>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 HD</td>
<td>5450</td>
<td>320GB DVD:RW</td>
<td>11b/g/n</td>
<td>TV IR remote</td>
<td>PS2/USB</td>
<td>Prem 64</td>
<td>Jun 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4031-1QU</td>
<td>Athlon II X3 400e</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; FHD Multi HD</td>
<td>5450</td>
<td>640GB DVD:RW</td>
<td>11b/g/n</td>
<td>TV IR remote</td>
<td>PS2/USB</td>
<td>Prem 64</td>
<td>Jun 10</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**

### Processor

- **AMD Athlon II X2 Processor 235e with dual-core**, 4000MHz HyperTransport™ Bus, AMD Virtualization (AMD-V)™ technology, AMD64 tech with 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

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

### Chipset

- **AMD 760G Chipset** with HyperTransport 3.0 and PCI Express 2.0 support;

### 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)

### Graphics

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

### Discrete modes:

- 130-watt AC adapter
- ENERGy STAR 5.0-compliant
- 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 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

US models withdrawn effective March 2014
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
(Hardware TV buttons on some models)
**IdeaCentre™ B320 (7760) - Multi-touch - withdrawn**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Multi-touch screen</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
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<th>Mini PCIe W802.11 wireless</th>
<th>OneKey TV</th>
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<th>Keyboard/ mouse</th>
<th>USB3.0</th>
<th>Win7 preload</th>
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<tbody>
<tr>
<td>7760-1CU</td>
<td>G620</td>
<td>2GBx2</td>
<td>21.5” FHD Multi</td>
<td>0.3M</td>
<td>Intel HD</td>
<td>500GB*</td>
<td>DVD±RW</td>
<td>11b/g/n*</td>
<td>OneKey TV Remote</td>
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<td>BT/DT</td>
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<td>7760-2CU</td>
<td>G620</td>
<td>4GBx1</td>
<td>21.5” FHD Multi</td>
<td>0.3M</td>
<td>Intel HD</td>
<td>1TB</td>
<td>DVD±RW</td>
<td>11b/g/n</td>
<td>OneKey TV Remote</td>
<td>BT</td>
<td>BT/DT</td>
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<td>BT/DT</td>
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<td>7760-1CU</td>
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<td>BT/DT</td>
<td>None</td>
<td>None</td>
<td>Prem 64</td>
<td></td>
</tr>
</tbody>
</table>

- 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

**Processor**
- Intel Pentium® G620 Processor (2 cores / 2 threads, 2.60 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz)
- Intel Pentium G630 Processor (2 cores / 2 threads, 2.70 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz)
- Intel Pentium G640 Processor (2 cores / 2 threads, 2.80 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz)
- Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache) DDR3 memory controller (up to 1333MHz)

**Memory**
- 4GB std / 8GB max / PCS-10600 1333MHz DDR3*, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

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

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

**SATA disk**
- 500GB or 1TB, SATA 3.0Gb/s, 3.5” wide, 7200 rpm

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

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

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

**Controls**
- Touch-sensitive buttons for menu, direction buttons (left and right), and display on/off; hardware TV buttons on selected models (Channel Up/Down, Volume Up/Down, TV mode menu button, Signal source choice button, and TV power On/Off)

**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

**Chipset**
- Intel H61 Express Chipset

**Multicard reader**
- 5-in-1 card reader (MMC, MS, MS PRO, SD, SDHC)

**Ports**
- Rear: Four USB 2.0, one USB 3.0 (on some models), ethernet (RJ-45), keyboard (PS/2), TV-IN 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 PCIe Mini Card slots (one full size and one half size)
  - 11b/g/n wireless*, Pcie Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip
  - None

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

**Modem**
- None

**Ethernet**
- Gigabit ethernet on planar, Intel 82579V

**Audio support**
- High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™, stereo speakers (3 watts x 2)

**Keyboard**
- Some: Bluetooth full-size keyboard, 6-row, black

**Mouse**
- Some: 2.4G wireless full-size keyboard, 6-row, black

**Remote control**
- Some: IR remote control for hardware TV (OneKey TV)

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

**Dimensions**
- Non-touch models: (WXxHxD): 21.0” x 16.0” x 2.96”; 534mm x 405.2mm x 75.3mm
- Non-touch models w/stand: (WXxHxD): 21.0” x 16.0” x 4.67”; 534mm x 405.2mm x 118.5mm
- Touch models: (WXxHxD): 21.0” x 16.0” x 3.47”; 534mm x 405.2mm x 88.2mm
- Touch models w/stand: (WXxHxD): 21.0” x 16.0” x 5.17”; 534mm x 405.2mm x 131.4mm

**Weight**
- From 22.11 lb (10.03 kg), vary by configuration

**Chassis**
- Front: black and silver color; rear: dark gray color

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

**VESA mount**
- Supports VESA 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 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

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 (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 models withdrawn effective March 2014
© Lenovo (BAKR1-1) August 2012
IdeaCentre™ B320 (Multi-touch) - web only models - withdrawn

<table>
<thead>
<tr>
<th>Type-model / part number</th>
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<th>Widescreen display</th>
<th>Multi-touch screen</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>Mini PCle</th>
<th>Remote control</th>
<th>Keyboard/ Mouse</th>
<th>USB3.0</th>
<th>Win7 preload</th>
</tr>
</thead>
<tbody>
<tr>
<td>7760-1EU i3-2120</td>
<td>Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3M Cache)</td>
<td>4GBx1</td>
<td>21.5&quot; FHD Multi</td>
<td>0.3M</td>
<td>HD6450</td>
<td>1TB</td>
<td>DVD:RW</td>
<td>11b/g/n</td>
<td>OneKey TV IR</td>
<td>BT/ BT</td>
<td>2.4G/ 2.4G</td>
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<tr>
<td>7760-1DU i5-2500S</td>
<td>Intel® Core™ i5-2500S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache)</td>
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<td>11b/g/n</td>
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<td>4GBx2</td>
<td>21.5&quot; FHD Multi</td>
<td>0.3M</td>
<td>HD6450</td>
<td>2TB</td>
<td>DVD:RW</td>
<td>11b/g/n</td>
<td>OneKey TV IR</td>
<td>BT/ BT</td>
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<td>7760-3FU i5-2500S</td>
<td>Intel® Core™ i5-2500S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache)</td>
<td>4GBx2</td>
<td>21.5&quot; FHD Multi</td>
<td>0.3M</td>
<td>HD6450</td>
<td>2TB</td>
<td>DVD:RW</td>
<td>11b/g/n</td>
<td>OneKey TV IR</td>
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<td>21.5&quot; FHD Multi</td>
<td>0.3M</td>
<td>HD6450</td>
<td>2TB</td>
<td>DVD:RW</td>
<td>11b/g/n</td>
<td>OneKey TV IR + MCE</td>
<td>2.4G/ 2.4G</td>
<td>None Prem 64</td>
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<td>57312628 i3-2120</td>
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<td>21.5&quot; FHD Multi</td>
<td>0.3M</td>
<td>HD6450</td>
<td>2TB</td>
<td>DVD:RW</td>
<td>11b/g/n</td>
<td>OneKey TV IR</td>
<td>BT/ BT</td>
<td>2.4G/ 2.4G</td>
<td>None Prem 64</td>
</tr>
</tbody>
</table>

- **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

Processor

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

DDR3 memory controller (up to 1333MHz)

Intel® Core™ i5-2500S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache)

Turbo Boost Technology 2.0 (up to 3.70 GHz, 3M Cache)

Intel® Core™ i5-3330S Processor (4 cores / 4 threads, 2.70 GHz, 6M Cache)

Turbo Boost Technology 2.0 (up to 3.20 GHz, DDR3 memory controller (up to 1600MHz)

Implementation

Processor in FCLGA1155 socket

Memory

64GB max / 11b/g/n **3/10650 1333MHz DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

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

Optical display

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

SATA disk

SSD 1TB S.G/s, 3.5" wide, 7200 rpm

SATA controller

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

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

Multi-touch, 2-point support

Camera

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

Controls

Touch-sensitive buttons for menu, direction buttons (left and right), and display on/off, hardware TV menu button, TV mode menu button, Signal source choice button, and TV power On/Off

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

Some: AMD Radeon™ HD 6450, PCI Express x16, 1GB memory, DirectX® 11

Some: AMD Radeon HD 4750A, PCI Express x16, 1GB memory, DirectX® 11

Chipset

Intel® H61 Express Chipset

Multicard reader

5-in-1 card reader (MMC, MS, MS PRO, SD, SDHC)

Ports

Rear: Four USB 2.0, one USB 3.0 (on some models), ethernet (RJ-45), keyboard (PS/2), TV-IN connector (on TV models);

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

PCIe Mini Card

11b/g/n/w®

TV tuner

None

Bluetooh®

Bluetooth 2.1 wireless + EDR

Modem

None

Ethernet

Gigabit ethernet on planar, Intel 82579V

Audio support

High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™, stereo speakers (3 watts x 2)

Keyboard

Some: Bluetooth full-size keyboard, 6-row, black

Some: 2.4G wireless full-size keyboard, 6-row, black

Mouse

Some: Bluetooth Optical Wheel Mouse, black

Some: 2.4G wireless Optical Wheel Mouse, black

Remote control

Some: MCE remote control

Some: IR remote control for hardware TV (OneKey TV)

Power supply

200 watts, universal, auto-sensing

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 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

Weight

From 22.11 lb (10.03 kg), vary by configuration

Chassis

Front: black and silver color; rear: dark gray color

Stand

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

VESAMount

Supports VESA 100mm mount standard

ENERGY STAR® qualified

RoHS-compliant

Preloaded operating system

- Genuine Windows® 7
- Home Premium 64

Preloaded applications

- Lenovo Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus
- 60 (60 days of virus definitions)
- Cyberlink Power2Go (DVD:RW)
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo VentiTouch
- 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

Service upgrade options

 glimpses and overview of beauty and aging
- 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 (78Y1553)
- 24x7 toll-free support for warranty issues during the warranty period via 887-453-6686

See footnotes for important warranty information

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US model(s) announced February 21, 2013;
US models withdrawn effective March 2014

(BAKR1-2) February 2013
Lenovo IdeaCentre B520 (3D Vision models)

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

Lenovo IdeaCentre B520

Lenovo IdeaCentre B520 with optional Bluetooth keyboard and mouse
<table>
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<tr>
<th>Type-model</th>
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<th>Processor and Memory</th>
<th>Widescreen display</th>
<th>Graphics</th>
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<th>TV Tuner/Video</th>
<th>Remote Control</th>
<th>Keyboard/Keypad</th>
<th>Wall mount kit/USB</th>
<th>Win7 Preload</th>
</tr>
</thead>
<tbody>
<tr>
<td>7745-2AU</td>
<td>i3-2100</td>
<td>2 cores / 3 threads, 3.10 GHz, 3M Cache</td>
<td>23&quot; FHD Multitouch, 0.3M Intel HD</td>
<td>Intel® HD Graphics 2000 (added in MLC-2)</td>
<td>TV: 11.6g/n, Remote: BT</td>
<td>1TB</td>
<td>DVD-RW</td>
<td>BT/BT</td>
<td>Wall USB3.0</td>
<td>HDMI/AV Preem</td>
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<td>7745-2EU</td>
<td>i7-2600</td>
<td>4 cores / 4 threads, 3.30 GHz, 3M Cache</td>
<td>23&quot; FHD Multitouch, 0.3M GT555M 1G</td>
<td>Intel® HD Graphics 2000 (added in MLC-2)</td>
<td>TV: 11.6g/n, Remote: BT</td>
<td>2TB</td>
<td>DVD-RW</td>
<td>BT/BL</td>
<td>Wall USB3.0</td>
<td>HDMI/AV Preem</td>
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<tr>
<td>7745-2FU</td>
<td>i5-2310</td>
<td>4 cores / 4 threads, 2.90 GHz, 6M Cache</td>
<td>23&quot; FHD Multitouch, 0.3M GT555M 1G</td>
<td>Intel® HD Graphics 2000 (added in MLC-2)</td>
<td>TV: 11.6g/n, Remote: BT</td>
<td>1TB</td>
<td>DVD-RW</td>
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<td>Wall USB3.0</td>
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<td>7745-2JU</td>
<td>i5-2320</td>
<td>4 cores / 8 threads, 3.40 GHz, 8M Cache</td>
<td>23&quot; FHD Multitouch, 0.3M GT555M 1G</td>
<td>Intel® HD Graphics 2000 (added in MLC-2)</td>
<td>TV: 11.6g/n, Remote: BT</td>
<td>2TB</td>
<td>DVD-RW</td>
<td>BT/BL</td>
<td>Wall USB3.0</td>
<td>HDMI/AV Preem</td>
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<td>i5-2320</td>
<td>4 cores / 8 threads, 3.40 GHz, 8M Cache</td>
<td>23&quot; FHD Multitouch, 0.3M GT555M 1G</td>
<td>Intel® HD Graphics 2000 (added in MLC-2)</td>
<td>TV: 11.6g/n, Remote: BT</td>
<td>2TB</td>
<td>DVD-RW</td>
<td>BT/BL</td>
<td>Wall USB3.0</td>
<td>HDMI/AV Preem</td>
</tr>
</tbody>
</table>

- **23" Full HD frameless display supporting state-of-the-art multi-touch** - and **NVIDIA 3D Vision**
- **Multi-touch 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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**Processor**

- Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.10 GHz, 3M Cache)
- 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)
- Intel Core i7-2600 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache)

**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 (glossy), LED backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen

**Multi-touch**

- Multi-touch, 2-point support

**NVIDIA® 3D Vision**

- None

**Camera**

- Camera on top of screen, 0.3-megapixel, fixed focus, with analog 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)

**Graphics**

- Some: Intel HD Graphics 2000, in processor, uses main memory, DirectX® 10.1
- Some: NVIDIA® GeForce® GT 553M, PCI Express® x16, 1GB DDR5, DirectX 11;

**Chipset**

- Intel® H67 Express Chipset

**Multicard reader**

- Multicard reader (MMC, MS, 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), DVD±RW (±R Dual Layer), 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 wireless®, PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip
- ATSC tuner, supports analog and digital signal, PCIe Mini Card
- Bluetooth 2.1 wireless + EDR

**Modern**

- None

**Ethernet**

- Gigabit ethernet on planar, Intel 82579V

**Audio support**

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

**Keyboard**

- Bluetooth full-size keyboard, 6-row, black
- Bluetooth Audio Mouse, black
- Remote control
- Power supply
- 250 watts, universal, auto-sensing

**Dimensions**

- Non-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), vary by configuration
- Chassis: Front: black and silver color; rear: silver gray color
- Stand: Adjustable stand (between 15° and 40°), supports cable management
- Wall mount: Wall mount kit, meets VESA 100mm mount standard

**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
  - 4-year Lenovo In-Home Repair
- 24x7® toll-free support for warranty issues during the warranty period via 877-453-6686
**IdeaCentre™ B520 (7745) - Multi-touch (web only models) - withdrawn**

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

**Preloaded applications**
- 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 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®
- The software is not compatible with 720p Camera

**Ready to install applications**
- Motion Drive Game Zone
  - The application is included on a CD shipped with 3-in-1 mouse

**ENERGY STAR® qualified RoHS-compliant**

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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 In-Home Repair
  - 9x5 Next Business Day (78Y1553)
- 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 models withdrawn effective March 2014

© Lenovo (MLC1-1) December 2011
### IdeaCentre™ B520e (3111) - Multi-touch - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
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<th>TV tuner / OneKey TV</th>
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<th>Keyboard / Mouse</th>
<th>Wall mount kit</th>
<th>HDMI-in</th>
<th>Win7 preload</th>
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<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</td>
<td>Intel HD 500G DVD±RW</td>
<td>11b/g/n²w</td>
<td>OneKey TV IR Rem</td>
<td>BT/ BT</td>
<td>Wall USB3.0</td>
<td>HDMI/ AV</td>
<td>Prem 64</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3111-1MU</td>
<td>Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz)</td>
<td>4GBx1</td>
<td>23&quot; FHD Multi</td>
<td>Intel HD 500G DVD±RW</td>
<td>11b/g/n²w</td>
<td>OneKey TV IR Rem</td>
<td>BT/ BT</td>
<td>Wall USB3.0</td>
<td>HDMI/ AV</td>
<td>Prem 64</td>
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<td></td>
</tr>
<tr>
<td>3111-1PU</td>
<td>Intel® Core™ i5-2400S Processor (4 cores / 4 threads, 2.50 GHz, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), DDR3 memory controller (up to 1333MHz)</td>
<td>4GBx1</td>
<td>23&quot; FHD Multi</td>
<td>Intel HD 500G DVD±RW</td>
<td>11b/g/n²w</td>
<td>OneKey TV IR Rem</td>
<td>BT/ BT</td>
<td>Wall USB3.0</td>
<td>HDMI/ AV</td>
<td>Prem 64</td>
<td></td>
<td></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
- **Dolby Home Theater v4 audio enhancement**
- **These systems are Microsoft® Office 2010 Product Key Ready** (O10PKR)
- **Optional feature**

---

**Processor**
- Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.70 GHz, 3MB cache), DDR3 memory controller (up to 1066MHz)
- Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz)
- Intel Core i5-2400S Processor (4 cores / 4 threads, 2.50 GHz, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), DDR3 memory controller (up to 1333MHz)

**Memory**
- 8GB max / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

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

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

**WideScreen display**
- Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), LED backlight, 300 nits, 16:9 aspect ratio, frameless screen

**Multi-touch**
- 23" FHD Multi-touch, 2-point support

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

**Chipset**
- Intel H61 Express Chipset

**PCIe Mini Card**
- Two PCIe Mini Card slots
- 11b/g/n²w, PCIe Half Mini Card adapter, Realtek® or Atheros® chip

**TV tuner**
- ATSC TV tuner, PCIe Mini Card

**Bluetooth**
- Bluetooth 2.1 wireless + EDR

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

**Audio support**
- High Definition (HD) Audio, Realtek ALC663 codec / Dolby® Home Theater® v4 certified / 5.0 speakers (3 watts x 5)

**Keyboard**
- Bluetooth full-size keyboard, 6-row, black

**Mouse**
- Bluetooth Optical Wheel Mouse, black

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

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

**Dimensions**
- (WxHxD): 22.35" x 16.80" x 3.01"; 567.8mm x 426.7mm x 76.9mm

**Chassis**
- Front: black and silver color; rear: silver gray color

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

**Wall mount**
- Wall mount kit, meets VESA 100mm mount standard

---

**ENERGY STAR® qualified**

**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 (78Y1552)
- 3-year Lenovo In-Home Repair 9x5 Next Business Day (78Y1553)
- 2x7™ 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 withdrawn effective March 2014

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(MLC1-3) April 2012
**Processor**

Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.8 GHz, 3M Cache)

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

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

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

**Implementation**

Processor in FCLGA1155 socket

**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 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

**Graphics**

HD Graphics or HD Graphics 2000, integrated in processor, uses main memory, DirectX® 10.1;

**Chipset**

Intel H61 Express Chipset

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

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

**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 Mouse, black

**Remote control**

None

**Power supply**

200 watts, universal, auto-sensing

**Dimensions**

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 system**

- Genuine Windows® 7
- Home Premium 64

**Preloaded applications** (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 Warranty**

12 - 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 (78Y1553)

- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686
• 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

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
  (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™
- 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 parts23)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time for selected parts23
- Service upgrade options (in eligible locations):13
  • 2-year Lenovo In-Home Repair
  • 3-year Lenovo In-Home Repair
- 24x7 toll-free support for warranty issues during the warranty period25 via 877-453-6666
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 stereo speakers (3 watts x 2) supporting Dolby Advanced Audio v2
* These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)
* 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 2000,
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 1800MHz dual-channel DDR3 memory controller

Implementation
Processor in FCLGA1155 socket

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

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
1TB or 2TB, SATA 6.0G/s, 3.5" wide, 7200 rpm
SATA controller Serial ATA, Serial 3.0 Gb/s support, integrated in chipset

Wide-screen 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

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

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

Controls
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 Mode, 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)

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
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
Intel H61 Express Chipset
Multi-touch reader
Multicard reader
Port
Multicard reader (MMC, MS, MS PRO, MSXC, SD, SDHC, SDXC)

PCIe Mini Card
11b/g/n®
Two PCIe Mini Card slots
11b/g/n wireless®, PCIe Half Mini Card adapter, Broadcom®, Realtek®, or Atheros® chip
TV tuner None
Bluetooth® None
Modem None
Ethernet None
Audio support

Keyboard
2.4G wireless Ultra Slim keyboard, 6-row, Fn keys, black
Remote control Some: MCE remote control, via IR
Power supply 200 watts, universal, auto-sensing

Dimensions
Non-3D models: (Width x Height): 22.70" x 16.22" x 4.34"; 576.6mm x 411.9mm x 110.3mm
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 system
- Genuine Windows® 7 Home Premium 64
- 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)
- Angry Birds
- Happy Hit
- Curling
- Music Star
- Link Up
- Funny Cube
- Firework
- Microsoft Live Essentials
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate

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
- 2-year Lenovo On-Site Repair
- 3-year Lenovo On-Site Repair
- 24x7® toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information
US models withdrawn effective March 2014

© Lenovo (TOGA1-1) October 2012
### IdeaCentre™ B540 (Windows 8) - web only models - withdrawn

**Part number** | **Processor** | **Memory** | **Wide-screen display** | **Multi-touch screen** | **Camera** | **Graphics** | **SATA disk** | **Mini PCIe** | **TV tuner** | **Remote control** | **Keyboard/Mouse** | **HDMI-in** | **Blue-tooth** | **Win8 preload** | **Availability**
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
57311751 | i3-3220 | 4GBx2 | 23" HD | | | | | | | | | | | | | 2013
57311756 | i5-3330S | 4GBx2 | 23" HD | Multi | | | | | | | | | | | | | 2013

- 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

**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 (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®
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- AccuWeather
- eBay
- Evernote
- Amazon Kindle
- Lenovo Support
- Rara Streaming
- Lenovo Companion

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**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 877-453-6686

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See footnotes for important warranty information

US models withdrawn effective March 2014

(© Lenovo) (TOGA1-4) February 2013
**IdeaCentre™ B540p (3363) - (web only models) - withdrawn**

| Type-model | Processor | Memory | Wide-screen display | Multi-Touch screen | Camera (megapixel) | Graphics | Mini PCIe | TV tuner | OneKey TV | Key-board/| Wall mount kit | HDMI-in | Win7 preload (mm/yy) | Ann date |
|------------|-----------|--------|---------------------|--------------------|-------------------|----------|-----------|----------|-----------| Mouse | - | AV IN | - | - |
| 3363-1BU | i7-3770 | 4x3 | 23” FHD Multi | None | 720p | GT650M 2G | 2TB | BD Reader | 11b/g/n | None | 2.4G | None | HDMI+AV Prem 60 09/12 |
| 3363-1CU | i7-3770 | 4x4 | 23” FHD Multi | 3D | 720p | GT650M 2G | 2TB | BD Reader | 11b/g/n | None | 2.4G | None | HDMI+AV Prem 60 09/12 |
| 3363-1DU | i5-3450 | 4x2 | 23” FHD Multi | None | 720p | GT650M 1G | 2TB | BD Reader | 11b/g/n | None | 2.4G | None | HDMI+AV Prem 60 09/12 |

- 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)

Turbo Boost Technology 2.0 (up to 3.50 GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller

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, integrated 1600MHz dual-channel DDR3 memory controller

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

Some: Blu-ray burner, Blu-ray and DVD disk recordable, 12.7mm, tray-in

2TB, SATA 6.0Gb/s, 3.5” width, 7200 rpm

**SATA disk**

AATA, SATA 3.0Gb/s and SATA 6.0Gb/s support, integrated in chipset

**SATA controller**

**Widescreen display**

23.0” (584.2mm) Full HD (1920x1080 WXUAX) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16.9 aspect ratio, 1000:1 contrast ratio, frameless screen

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

Support FPR 3D technology, 2 pairs of FPR glasses

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

**Chipset**

Intel® H77 Express Chipset

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

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

**Multicard reader Ports**

**PCle Mini Card**

11b/g/n²

Two PCle Mini Card slots

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

None

**TV tuner**

Bluetooth®

**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 (5 watts x 2)

**Keyboard**

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

**Dimensions²**

(WxHxD): 22.70” x 16.22” x 4.34”; 576.6mm x 411.9mm x 110.3mm

**Weight²**

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

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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 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 period² via 877-453-6686

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See footnotes for important warranty information

US models withdrawn effective March 2014

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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) - withdrawn

- **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**

### Specifications

<table>
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<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>TV Tuner</th>
<th>Remote control</th>
<th>Wireless</th>
<th>Color</th>
<th>Keyboard/Mouse</th>
<th>Win7 preload</th>
<th>Avail date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3110-2KU</td>
<td>Atom D2700 2.13 1MB 2GBx1 Samsung 320GB2</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Black/Silver</td>
<td>2.4GHz</td>
<td>Prem 64</td>
<td>02/12</td>
</tr>
<tr>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Black/Silver</td>
<td>2.4GHz</td>
<td>Prem 64</td>
<td>02/12</td>
</tr>
<tr>
<td>57308562</td>
<td>Atom D2550 1.86 1MB 2GBx1 Samsung 320GB2</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Black/Silver</td>
<td>2.4GHz</td>
<td>Prem 64</td>
<td>07/12</td>
</tr>
<tr>
<td>57308563</td>
<td>Atom D2550 1.86 1MB 4GBx1 Samsung 320GB2</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Black/Silver</td>
<td>2.4GHz</td>
<td>Prem 64</td>
<td>11/12</td>
</tr>
</tbody>
</table>

- **Processor**: Intel® Atom™ D2550 processor (2 cores / 4 threads, 1.86GHz, 1MB cache), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology
- **Memory**: 2GB or 4GB std, 4GB max*, 2GB or 4GB std
- **Graphics**: AMD Radeon™ HD 6450A 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
- **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
- **Audio**: High Definition (HD) audio, Realtek® ALC662 codec
- **Ethernet**: Gigabit ethernet on planar, Realtek RTL8111E-GL
- **Modem**: None
- **Security chip**: None
- **11b/g/n**: 11b/g/n wireless®, Realtek RTL8188CE
- **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): (WxHxD): 6.10” x 0.87” x 7.56”; 155mm x 22mm 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 877-453-6868

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(BAFF1-2) November 2012

See footnotes for important warranty information

US models withdrawn effective March 2014
### IdeaCentre Q180 (3110) - Discrete (web only models) - withdrawn

**Type-model** | **Processor** | **GHz** | **L2 cache** | **Memory** | **SATA disk** | **SATA optical** | **Graphics** | **TV tuner** | **Remote control** | **802.11 wireless** | **Color** | **Keyboard/ Mouse** | **Win7 preload** | **Avail date (mm/yyyy)**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
3110-2AU | Atom D2700 | 2.13 | 1MB | 2GBx1 | 500GB | HD 6450A | None | None | None | None | Black/Silver | USB/USB | Prem 64 | 11/11
3110-2BU | Atom D2700 | 2.13 | 1MB | 4GBx1 | 500GB | DVD±RW | HD 6450A | None | None | None | None | Black/Silver | USB/USB | Prem 64 | 11/11
3110-2CU | Atom D2700 | 2.13 | 1MB | 4GBx1 | 750GB | DVD±RW | HD 6450A | None | None | None | None | Black/Silver | 2.4GHz | Prem 64 | 11/11
3110-2DU | Atom D2700 | 2.13 | 1MB | 4GBx1 | 750GB | Blu-ray | HD 6450A | None | None | None | None | Black/Silver | 2.4GHz | Prem 64 | 11/11
3110-2VU | Atom D2550 | 1.86 | 1MB | 4GBx1 | 500GB | DVD±RW | HD 7450A | None | None | None | None | Black/Silver | USB/USB | Prem 64 | 09/12
3110-2WU | Atom D2550 | 1.86 | 1MB | 4GBx1 | 500GB | Blu-ray | HD 7450A | None | None | None | None | Black/Silver | 2.4GHz | Prem 64 | 10/12
3110-2VU | Atom D2550 | 1.86 | 1MB | 4GBx1 | 750GB | Blu-ray | HD 7450A | None | None | None | None | Black/Silver | 2.4GHz | Prem 64 | 11/11

---

**Processor**

**Intel Atom™ D2550 processor** (2 cores / 4 threads, 1.86GHz, 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.

**Graphics**

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

500GB (5400 rpm) or 750GB (5400 rpm) / SATA 3.0Gb/s, 2.5” wide

**External optical**

- Serial ATA, SATA 3.0Gb/s, integrated in NM10 chipset
- DVD burner, dual-layer support, slot-in
- Blu-ray™ Disc reader (no Blu-ray burning), DVD recordable, slot-in
- 8-in-1 (SD, SDHC, SDXC, MMC, MS, MS Pro, MS Pro Duo, MS XC)

**Multicard reader**

**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-VL

**Modem**

None

**Security chip**

None

**11b/g/n wireless**

11b/g/n wireless®, Realtek RTL8188CE

**TV tuner**

None

**Remote control**

None

**Camera**

None

**Keyboard**

Mini Keyboard (USB connector), black

**Mouse**

Mini Optical Wheel Mouse (USB connector), black

**Dimensions**

- 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

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**See footnotes for important warranty information**

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US model(s) announced November 28, 2012; November 23, 2011 or September 19 or October 24, 2012

US models withdrawn effective March 2014

© Lenovo

US model(s) announced November 28, 2012; November 23, 2011 or September 19 or October 24, 2012

US models withdrawn effective March 2014

---

**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
Lenovo IdeaCentre Q190

Optional Lenovo Mini Wireless Keyboard N5902 (57Y6678)
### IdeaCentre Q series

- **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
- 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

#### 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

#### Keyboard/Mouse

- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

#### 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)

#### Accessories

- 65-watt AC adapter
- ENERGY STAR® qualified
- RoHS-compliant

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**See footnotes for important warranty information**

US models withdrawn effective March 2014

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(BAFF2-2) February 2013
IdeaCentre™ Q190 (Windows 8) - web only models - withdrawn

- 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

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Chipset</th>
<th>TV tuner</th>
<th>Color</th>
<th>Keyboard/Mouse</th>
<th>Win8 preload</th>
<th>Avail date (mm/yy)</th>
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</thead>
<tbody>
<tr>
<td>57312250</td>
<td>Celeron® 887</td>
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<td>Win8 64 12/12</td>
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<td>Intel HD graphics</td>
<td>HM70</td>
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<td>USB/USB</td>
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<tr>
<td>57312240</td>
<td>i3-2365M</td>
<td>1.40 3MB</td>
<td>4GBx1  1TB</td>
<td>DVD±RW Intel HD 3000</td>
<td>HM76</td>
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<td>Black/Silver</td>
<td>NS902</td>
<td>Win8 64 01/13</td>
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<td>i3-2365M</td>
<td>1.40 3MB</td>
<td>8GBx1  1TB</td>
<td>Blu-ray Intel HD 3000</td>
<td>HM76</td>
<td>None</td>
<td>Black/Silver</td>
<td>NS902</td>
<td>Win8 64 02/13</td>
</tr>
</tbody>
</table>

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 max², 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
- 500GB (5400 rpm) or 1TB SATA controller
- SATA 3.0Gb/s, 2.5" wide

Audio
- External optical: DVD burner, dual-layer support, slot-in
- Internal speaker: 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
- Mobile Intel HM76 Express Chipset

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
  - 2-year Lenovo Onsite Repair 9x5
  - 3-year Lenovo Onsite Repair 9x5
- 24x7¹ toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

BAFF2-1) February 2013

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*US model(s) announced February 21, 2013; December 13, 2012 or January 30, 2013
US models withdrawn effective March 2014
### IdeaCentre™ D400 (3013) - withdrawn

#### System Information

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>SATA disks</th>
<th>L2 cache</th>
<th>Sata optical</th>
<th>Graphics</th>
<th>Ethernet</th>
<th>Color</th>
<th>Preload</th>
<th>Avail date</th>
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<tbody>
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<td>1TB</td>
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<td>Gigabit</td>
<td>Black</td>
<td>Windows Home Server Sep 09</td>
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<tr>
<td>3013-1BU</td>
<td>Atom 230</td>
<td>1GB</td>
<td>1TB</td>
<td>1.60</td>
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<td>eSATA</td>
<td>Gigabit</td>
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<td>3013-1CU</td>
<td>Atom 230</td>
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<td>1TB</td>
<td>1.60</td>
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<td>None</td>
<td>eSATA</td>
<td>Gigabit</td>
<td>Black</td>
<td>Windows Home Server Sep 09</td>
</tr>
</tbody>
</table>

- 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**

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

**Implementation**

- 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\(^*\)
- * Need to first remove disk in software via Windows Home Server Console

**Disk bays**

- Four SATA cables (each 1-drop to device), Four SATA connectors
- One external SATA (eSATA) port in rear
- * Bay used in some models

**Chipset**

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

**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

**Small Form Factor**

- Bay 3.5", 1" high, external, standard disk
- Bay 3.5", 1" high, external, optional disk\(^*\)
- Bay 3.5", 1" high, external, optional disk\(^*\)
- Bay 3.5", 1" high, external, optional disk\(^*\)
- Bay used in some models

**Avail date**

- Slot 1: half-length, low-profile, PCI Express x4

**Limited Warranty\(^1\)**

- 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):\(^3\)
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
  - 24x7 4 toll-free support for warranty issues during the warranty period\(^1\) via 877-453-6686

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Every effort has been made to ensure that the specifications listed above are accurate. Lenovo reserves the right to make changes without notice. For Lenovo’s current list of specifications, please visit [lenovo.com](http://lenovo.com).

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US models withdrawn effective March 2014

(HS1-1) September 2009
### IdeaCentre K210 (Celeron® and Pentium®) - withdrawn

**Personal Systems Reference (PSREF)**

#### Part number Slot x bay Processor GHz L2 cache Cores Memory Media reader SATA disk SATA optical Graphics Modem Monitor Camera Vista preload Avail date

| 57-078915 | 4x5 | Celeron E1200 | 1.60 | 512KB | 2 | 2GB | 16-in-1 | 320GB | DVD±RW | GMA 3100 | Camera | Home Prem | May 08 |
| 57-078894 | 4x5 | Pentium E2140 | 1.60 | 1MB | 2 | 4GB | 16-in-1 | 500GB | DVD±RW | GMA 3100 | Camera | Home Prem | May 08 |
| 57-076245 | 4x5 | Pentium E2180 | 2.00 | 1MB | 2 | 1GB | 16-in-1 | 320GB | DVD±RW | GMA 3100 | Mod | Home Basic | May 08 |
| 57-077616 | 4x5 | Pentium E2180 | 2.00 | 1MB | 2 | 2GB | 16-in-1 | 320GB | DVD±RW | GMA 3100 | Mod | Camera | Home Prem | May 08 |
| 57-077617 | 4x5 | Pentium E2180 | 2.00 | 1MB | 2 | 3GB | 16-in-1 | 500GB | DVD±RW | GMA 3100 | Mod | Home Prem | May 08 |
| 57-076522 | 4x5 | Pentium E2180 | 2.00 | 1MB | 2 | 3GB | 16-in-1 | 500GB | DVD±RW | GMA 3100 | Mod | L222 | Camera | Home Prem | May 08 |

- **Antibacterial keyboard uses special material on the surface of the keys to restrain bacterial growth**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **(Select models) Healthcare eyesight protection software detect distance between user and monitor and adjusts monitor brightness based on environment**
- **(Select models) Lenovo Bright Eye camera and VeriFace face recognition software help control access to your computer by recognizing your face**

#### Processor

| Intel Celeron Dual-Core Processor E1200 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 512KB L2 cache or Intel Pentium® Dual-Core Processor E2140 or E2180 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB L2 cache or |

#### Implementation

Processor in FC-LGA6 package in LGA775 socket

#### Memory

| 1GB, 2GB, 3GB, or 4GB std, 4GB max | PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 24-pin DIMM sockets |

#### Graphics

| Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G31, uses main memory, one 15-pin analog D-sub connector |

#### Chipset

| Intel G31 Express Chipset; I/O Controller Hub 7 Digital Home (ICH7DH) for SATA 3.0Gb/s, PCI Express x1, X1, 32-bit, USB, LPC bus / Winbond® W83627DHG |

#### Front ports

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

#### Rear ports

| Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), Ethernet RJ-45, monitor (DB-15) |

#### Rear audio ports

| Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm), High Definition (HD) audio, ALC662 codec |

#### Audio

| External speakers None |

#### Internal speakers None |

#### Ethernet

| 10/100 ethernet on planar, Intel 82562GZ (PHY/MAC) |

#### Modem

| Some: 56K V.92 data/fax soft modem, PCI adapter None |

#### Security chip None |

#### TV tuner None |

#### Camera None |

#### Keyboard

| Optical Wheel Mouse (USB connector), 400 dpi |

#### Power supply

| 280 watts, universal, manual switch |

#### Preloaded operating system

- **Some:** Genuine Windows® Vista® Home Basic 32
- **Some:** Genuine Windows Vista Home Premium 32
- **Others:** Vista Premium logo

#### Preloaded applications

- **Lenovo® OneKey Recovery**
- **Lenovo Healthcare Software**
- **Lenovo Media Studio**
- **Driver and Application Installation**
- **Trend Micro™ PC-cillin® Internet Security 2007**
- **EarthLink®**
- **Windows Live™ Toolbar**
- **Microsoft® Office 2007 Trial (60-day)**
- **VeriFace™**
- **Corel® WinDVD® (DVD±RW)**
- **CyberLink Power2Go (DVD±RW)**

#### Lenovo L222 Wide

- **Widescreen 22-inch flat panel monitor**
- **Active Matrix TFT LCD screen**
- **Supports WSXGA+ 1680x1050 resolution**
- **16:10 aspect ratio**
- **22.0" (559mm) viewable image size**
- **320 nits brightness (typical)**
- **1000:1 contrast ratio (typical)**
- **5ms pixel response time**
- **Dual video input: one analog D-sub connector and one digital DVI-D connector**
- **HDCP-compliant**
- **Ergonomic stand lifts and swivels**
- **High-gloss black case**
- **Touch-sensitive control button**
- **Soundbar with speakers included**

#### Lenovo L222 Wide Monitor is only bundled with some models

#### Limited Warranty

- 1-year parts and labor
- 3-year Lenovo Onsite Repair
- 9x5 Next Business Day (781553)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for announced warranty information

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(KW1-1) January 2012
<table>
<thead>
<tr>
<th>Part number</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>GHz</th>
<th>L2 cache</th>
<th>Core</th>
<th>Memory</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>Modem</th>
<th>Monitor</th>
<th>Camera</th>
<th>Vista preload</th>
<th>Avail date</th>
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</tbody>
</table>

- Antivirus software is included (select models). Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows.

Processor

- Intel Core™ 2 Duo Processor E4600 with dual-core.
- Intel Core™ 2 Duo Processor E7200 with dual-core.
- Intel Core™ 2 Quad Processor Q6600 with quad-core.

Memory

- 3GB or 4GB std., 4GB max.
- PC2-5300 667MHz DDR2.

Graphics

- Intel Graphics Media Accelerator 3100 (GMA 3100).

Chipset

- Intel G31 Express Chipset; I/O Controller Hub 7 Digital Home (ICH7DH) for SATA 3gb/s, PCI Express x1, PCI 2.3, USB, LPC bus / Winbond® W83627DHG Super I/O for serial, parallel, keyboard, mouse functions.

Front ports

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

Rear ports

- Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), Ethernet (RJ-45), monitor (DB-15, DVI-D in some models).

Audio

- Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm), High Definition (HD) audio, ALC662 codec.

External speakers

- None.

Internal speaker

- None.

Ethernet

- 10/100 Ethernet on planar, Intel 82562GZ (PHY/MAC).

Modem

- Some: 56K V.92 data/fax modem, PCI adapter.

Security chip

- None.

TV tuner

- None.

Camera

- Some: Lenovo Bright Eye camera, 0.3-megapixel, fixed focus.

Keyboard

- 104-key anti-bacterial keyboard (PS/2 connector).

Mouse

- Optical Wheel Mouse (USB connector), 400 dpi.

Power supply

- 280 watts, universal switch.

Preloaded operating system

- Genuine Windows® Vista® Home Premium 32.

Preloaded applications

- Lenovo® OneKey Recovery.
- Lenovo Healthcare Software.
- Lenovo Media Studio.
- Driver and Application Installation.
- EarthLink®
- Windows Live™ Toolbar.
- Microsoft® Office 2007 Trial (60-day).
- VeriFace™
- Corel® WinDVD® (DVD±RW, Blu-ray).
- CyberLink Power2Go (DVD±RW, Blu-ray).

Available at these retailers:

- B&H™
- J&R™
- MICROCENTER®
- Newegg®
- TigerDirect

Warranty

- Limited Warranty. 1-year parts and labor. 1-year Customer Replaceable Unit (CRU), 1-year 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): 3-year Lenovo Onsite Repair (7x15) 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 K210 (5313) - Celeron® and Pentium® - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>GHz</th>
<th>L2 cache</th>
<th>Cores</th>
<th>Memory</th>
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<th>SATA optical</th>
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</tbody>
</table>

- **Antibacterial keyboard uses special material on the surface of the keys to restrain bacterial growth**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**
- **Select models** Lenovo Bright Eye camera and VeriFace face recognition software help control access to your computer by recognizing your face

Processor

- **Intel Celeron Dual-Core Processor E1200**
- **Intel Pentium® Dual-Core Processor E2180, E2200, or E5200**

Implementation

- Processor in FC-LGA6 package in LGA775 socket

Memory

- **1GB, 2GB, 3GB, or 4GB std. 4GB max, PC2-5300 667MHz DDR2**
- **Non-italics: standard memory in both sockets; no sockets available**
- **Italics: standard memory in one socket; 1 socket available**

Graphics

- **Intel Graphics Media Accelerator 3100 (GMA 3100)**
- **Simple graphics in G31, user memory, one 15-pin analog D-sub connector**

SATA disk

- **160GB, 250GB, 320GB, 500GB, or 640GB SATA 3Gb/s, 7200 rpm**

SATA controller

- **Serial ATA, SATA 3Gb/s, integrated in ICH7DH**

SATA DVD

- **Some: DVD-ROM DL SATA 1.5Gb/s 16X-48X Max**
- **Some: Multi-Burner DL DVD+RW SATA 1.5Gb/s Drive**

SATA cables

- **Two SATA cables (each 1-drop to device), four SATA connectors**

EIDE controller

- **One**

EIDE cables

- **None**

Dakette drive

- **None**

Media reader

- **Some: 16-in-1 media reader, internal USB 2.0**

Chipset

- **Intel G31 Express Chipset**
- **I/O Controller Hub 7 Digital Home (ICH7DH) for SATA 3Gb/s, PCI Express x1, PCI 2.3, USB, LPC bus / Winbond® W83627DHD**
- **Super I/O for serial, parallel, keyboard, mouse functions**

Front ports

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

Rear ports

- **Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)**

Rear audio ports

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

Audio

- **High Definition (HD) audio, ALC662 codec**

External speakers

- **None**

Internal speaker

- **None**

Ethernet

- **10/100 ethernet on planar, Intel 82562ZG (PHY/MAC)**

Modem

- **Some: 56K® V.92 data/fax soft modem, PCI adapter**

Security chip

- **None**

TV tuner

- **None**

Camera

- **Some: Lenovo Bright Eye camera, 0.3-megapixel, fixed focus**

Keyboard

- **104-key antibacterial keyboard (PS/2 connector)**
- **Optional Wheel Mouse (USB connector), 400 dpi**

Power supply

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

Preloaded operating system

- **Some: Genuine Windows® Vista® Home Basic**
- **Some: Genuine Windows® Vista® Home Premium**
- **5313-3AU/3BU: Vista Basic logo**
- **Others: Vista Premium logo**

Preloaded applications

- **Lenovo® OneKey Recovery**
- **Lenovo Healthcare Software**
- **Lenovo Media Studio**
- **Driver and Application Installation**
- **Trend Micro® PC-cillin® Internet Security 2007**
- **EarthLink®**
- **Windows Live™ Toolbar**
- **Microsoft Office 2007 Trial (60-day)**
- **VeriFace™**
- **Corel® WinDVD® (DVD, DVD+RW)**
- **CyberLink Power2Go (DVD, DVD+RW)**

Tower

- **Black and silver bezel**
- **7.1” W X 17.0” D X 15.0” H**
- **180mm W X 432mm D X 380mm H**
- **21.5 lb (9.75 kg)**
- **Toolless cover removal**
- **Toolless disk, optical drive removal**
- **Toolless adapter retention**

Some: 5.25”, 1.6” high, access, standard optical drive

Bay

- **3.5”, 1.6” high, access, 16-in-1 media reader**
- **Some: 3.5”, 1.6” high, access, optional disk drive**

Slot 1:

- **Half-length, full-height, PCI Express x1 Ver 1.1**
- **Half-length, full-height, PCI Express x16 Ver 1.1**

Slot 3:

- **Half-length, full-height, 32-bit PCI Ver 2.3**
- **Slot 4: Half-length, full-height, 32-bit PCI Ver 2.3**

*modem in slot in 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, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations): 3-year Lenovo Onsite Repair

See footnotes for important warranty information

US models announced July 15, October 22, or November 12, 2008

US models withdrawn effective January 18, 2012

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IdeaCentre K210 (5313) - withdrawn

- Genuine Windows Vista® Home Premium 32
- Genuine Windows Vista® Home Premium 64
- Genuine Windows Vista® Business 32
- Genuine Windows Vista® Business 64
- Genuine Windows Vista® Ultimate 32
- Genuine Windows Vista® Ultimate 64

Preloaded applications:
- Lenovo® OneKey Recovery
- Lenovo® HomeCare Software
- Lenovo Media Studio
- Trend Micro® PC-cillin™ Internet Security 2007
- EarthLink® Kingfisher
- Microsoft® Office 2007 Trial (60-day)
- VeriFace™
- Corel® WinDVD® (DVD±RW, Blu-ray)
- CyberLink Power2Go (DVD±RW, Blu-ray)

Preloaded operating system:
- Genuine Windows Vista® Home Premium 32
- Genuine Windows Vista® Home Premium 64
- Genuine Windows Vista® Business 32
- Genuine Windows Vista® Business 64
- Genuine Windows Vista® Ultimate 32
- Genuine Windows Vista® Ultimate 64

Tower

- Black and silver bezel
- 7.1" W X 17.0" D X 15.0" H
- 180mm W X 432mm D X 380mm H
- 21.5 lb (9.75 kg)
- Toolless cover removal
- Toolless disk drive removal
- Toolless adapter retention

Available at these retailers
- lenovo.com
- Fry's

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):
  - 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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US models announced July 15 or October 22, 2008
US models withdrawn effective January 18, 2012

(KW1-4) January 2012
Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

• Antibacterial keyboard uses special material on the surface of the keys to restrain bacterial growth

Tower
- Black bezel
- 7.1" W X 17.0" D X 15.0" H
- 180mm W X 432mm D X 380mm H
- 21.5 lb (9.75 kg)
- Toolless cover removal
- Toolless disk, optical drive removal
- Toolless adapter retention

Bay
- 5.25", 1.6" high, standard optical drive
- 5.25", 1.6" high, access, open
- 3.0", 1" high, access, 16-in-1 media reader
- 3.5", 1" high, no access, standard disk
- 3.5", 1" high, no access, optional disk

Slot 1: half-length, full-height, PCI Express x16, Intel E8500, 1333MHz system bus, 4GB L2 cache
Slot 2: half-length, full-height, PCI Express x16, Intel E8500, 1333MHz system bus, 4GB L2 cache
Slot 3: half-length, full-height, PCI Express x1, Intel G43, 1150MHz system bus, 2MB L2 cache
Slot 4: half-length, full-height, PCI Express x1, Intel G43, 1150MHz system bus, 2MB L2 cache

* Wireless adapter in slot in some models

Lenovo L222 Wide (HD)
- Widescreen 22-inch flat panel monitor
- Active Matrix TFT LCD screen
- Supports WUXGA 1920x1200 resolution
- High Definition (HD) ready; supports 1080p video
- 16:10 aspect ratio
- 22.0" (559mm) viewable image size (diagonal)
- 300 nits brightness (typical)
- 1000:1 contrast ratio (typical)
- 5ms pixel response time
- Dual video input: one analog D-sub connector and one digital DVI-D connector
- HDCP-compliant
- Ergonomic stand tilts and swivels
- High-gloss black case
- Touch-sensitive control button
- Soundbar with speakers included

Lenovo L222 Wide (HD) Monitor is only available at these retailers
- Available at these retailers
- Newegg
- TigerDirect

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 covering excluding holidays, 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
### IdeaCentre K220 (5358) - withdrawn

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<th>Cores</th>
<th>Memory</th>
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</table>

- **Antibacterial keyboard uses special material on the surface of the keys to restrain bacterial growth**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**

### Processor

| Processor | Intel Pentium Dual-Core Processor E2200 or E5200 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus; E2220: 1MB L2 cache; E5200: 2MB L2 cache | Intel Core™ 2 Quad Processor Q6000 with quad-core (dual-core on dual-die), Intel 64 Technology, Execute Disable Bit, EIST, 1333MHz system bus, and 4MB L2 cache |

### Implementation

| Implementation | Processor in FC-LGA6 package in LGA775 socket | Processor in FC-LGA6 package in LGA775 socket |

### Memory

| Memory | 2GB or 4GB std, 4GB max, PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 240-pin DIMM sockets | Intel Graphics Media Accelerator 4500 (GMA 4500), integrated graphics in G43, uses main memory, DirectX® 10, one 15-pin analog VGA DB-15 connector |

### Graphics


### SATA disk

| SATA disk | 250GB, 500GB, 640GB or 1TB SATA 3Gbps, 7200 rpm |

### SATA controller

| SATA controller | Serial ATA, 3.0Gbps, integrated in ICH10 |

### SATA DVD±RW

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

### SATA Blue-ray

| SATA Blu-ray | Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, DVD and CD recordable |

### SATA cables

| SATA cables | Two SATA cables (each 1-drop to device), four SATA connectors |

### IDE controller

| IDE controller | None |

### Diskette drive

| Diskette drive | None |

### Media reader

| Media reader | 16-in-1 media reader, internal USB 2.0 |

### Chipset

| Chipset | Intel G43 Express Chipset (PCI Express® x1 16), I/O Controller Hub 10 (ICH10) (SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5147-NW Super I/O |

### Front ports

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

### Rear ports

| Rear ports | Six USB 2.0, one serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), 1B/2CU/2DU: monitor (VGA DB-15), DVI-I, S-Video out; Others: monitor (VGA DB-15) |

### Rear audio ports

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

### Audio

| Audio | High Definition (HD) audio, ALC662 codec |

### External speakers

| External speakers | None |

### Internal speaker

| Internal speaker | None |

### Wireless

| Wireless | Some: 11b/g wireless®, Broadcom BCM4312, PCIe x1 adapter |

### Ethernet

| Ethernet | 10/100 ethernet on planar, Realtek® RTL8102E |

### Modem

| Modem | None |

### Security chip

| Security chip | None |

### TV tuner

| TV tuner | None |

### Camera

| Camera | None |

### Keyboard

| Keyboard | 104-key antibacterial keyboard (PS/2 connector) |

### Mouse

| Mouse | Optical Wheel Mouse (USB connector), 400 dpi |

### Power supply

| Power supply | 280 watts, universal, manual switch |

### Preloaded operating system

- Genuine Windows® Vista™ Home Premium 64

### Preloaded applications

- Lenovo® OneKey Recovery
- Driver and Application Installation
- Trend Micro® PC-cillin™ Internet Security 2008
- Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day)
- Corel® WinDVD® (DVD±RW, Blu-ray)
- CyberLink Power2Go (DVD±RW, Blu-ray)

### Tower

- Black bezel
- 7.1" W X 17.0" D X 15.0" H
- 180mm X W 432mm D X 380mm H
- 21.5 lb (9.75 kg)
- Toolless cover removal
- Toolless disk, optical drive removal
- Toolless adapter retention

### US models withdrawn effective January 18, 2012

See footnotes for important warranty information

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Available at these retailers
- lenovo.com
- Fry's

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):
  - 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

US models announced January 13, 2009

US models withdrawn effective January 18, 2012

See footnotes for important warranty information

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Processor: Intel® Pentium® Processor E2220 or E5200 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus; E2220: 1MB L2 cache; E5200: 2MB L2 cache or Intel Core 2 Duo™ Processor E7300 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q8200 with quad-core (dual-core on dual-die), Intel 64 Technology, Execute Disable Bit, EIST, 1333MHz system bus, and 4MB L2 cache.

Implementation: Processor in FC-LGA6 package in LGA775 socket.

Memory: 5GB, 6GB, or 8GB std, 8GB max, PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets.

Graphics: Intel® Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G33, uses main memory, one 15-pin analog VGA DB-15 connector.

SATA disk: 500GB, 640GB, or 1TB, SATA 3.0Gb/s, 7200 rpm
SATA controller: Serial ATA, SATA 3.0Gb/s, integrated in ICH9DH
SATA DVD±RW: Multi-Burner DL DVD±RW SATA 1.5Gb/s Drive
SATA cables: Two SATA cables (each 1-drop to device), four SATA connectors
EIDE controller: None
D i a k e t t e drive: None
Media reader: 16-in-1 media reader, internal USB 2.0

Chipset: Intel G33 Express Chipset (PCI Express x16), I/O Controller Hub 9 Digital Home (ICH9DH) (SATA 3.0Gb/s support, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O

Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports: Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)

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

Audio: High Definition (HD) audio, AD1988 codec

External speakers: None
Internal speaker: None
Ethernet: Gigabit ethernet on planar, Intel 82256DC
Wireless: None
Modem: None
Security chip: None

TV tuner: None
Remote control: None
Camera: None

Keyboard: 104-key anti-bacterial keyboard (PS/2 connector)
Mouse: Optical Wheel Mouse (USB connector), 400 dpi
Power supply: 280 watts, universal, manual switch

Preloaded operating system: Genuine Windows® Vista® Home Premium 64


Preloaded applications: Corel® WinDVD® (DVD±RW) and CyberLink Power2Go (DVD±RW)

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): 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

Available at these retailers:
TigerDirect

See footnotes for important warranty information.

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US models announced February 24 or March 17, 2009
US models withdrawn effective January 18, 2012
## IdeaCentre™ K230 (5359) - withdrawn

See footnotes for important warranty information
US models announced January 13 or February 24, 2009
US models withdrawn effective January 18, 2012

### Processor
- **Intel® Pentium® Processor E2200 or E5200**
- with dual-core, 800MHz system bus;
- **E2220:** 1MB L2 cache, E5200: 2MB L2 cache or
- **Intel Core™ 2 Duo Processor E7300 or E7400 with dual-core**
- 1066MHz system bus, and 3MB L2 cache or
- **Intel Core 2 Quad Processor Q8200 or Q9400 with quad-core**
- (dual-core on dual-die), 1333MHz system bus;
- Q8200: 4MB L2 cache; Q9400: 6MB L2 cache

### Implementation
- Processor in FC-LGA6 package in LGA775 socket

### Memory
- 5GB, 6GB, or 8GB std, 8GB max, PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets

### Graphics
- **Intel Graphics Media Accelerator 3100 (GMA 3100)**
- integrated graphics in G33, uses main memory, one 15-pin analog VGA DB-15 connector
- **Some:** NVIDIA® GeForce® 9300 GE, PCI Express® x16, 512MB memory, DirectX® 10, TurboCache, PureVideo® HD technology, S-Video out for TV-out, VGA DB-15 connector, DVI-I connector, HDCP-compliant

### SATA disk controller
- Serial ATA, SATA 3.0Gb/s, integrated in ICH9DH

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

### SATA Blu-ray drive
- Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, DVD and CD recordable

### SATA cables
- Two SATA cables (each 1-drop to device), four SATA connectors

### EIDE controller
- None

### Diakette drive
- None

### Media reader
- 16-in-1 media reader, internal USB 2.0

### Chipset
- **Intel G33 Express Chipset** (PCI Express® x16), I/O Controller Hub 9 Digital Home [ICH9DH] (SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O

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

### Rear ports
- Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2),
- mouse (PS/2), ethernet (RJ-45),
- **4DU/5AU:** monitor (VGA DB-15, DVI-I), S-Video out;
- **Others:** monitor (VGA DB-15)

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

### Audio
- High Definition (HD) audio, ADI1988 codec

### External speakers
- None

### Internal speaker
- None

### Ethernet
- Gigabit ethernet on planar, Intel 82856GC

### Wireless
- **Some:** 11b/g wireless, Broadcom® BCM4312, PCIe x1 adapter

### Modem
- None

### Security chip
- None

### TV tuner
- **Some:** Hybrid tuner, support analog (NTSC) and digital (ATSC) signal,
- Hauppauge WinTV-HVR-1250, PCIe x 1

### Remote control
- **Some:** Philips® Vista MCE remote control (40-button), IR receiver via USB

### Camera
- None

### Keyboard
- 104-key antibacterial keyboard (PS/2 connector)

### Mouse
- Optical Wheel Mouse (USB connector), 400 dpi

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

### Preloaded operating systems
- - Genuine Windows® Vista®
- Home Premium 64
- 5359-4DU/5AU: Vista Premium logo
- Others: Vista Basic logo

### Preloaded applications
- - Lenovo® OneKey Recovery
- Driver and Application Installation
- Trend Micro® PC-cillin® Internet Security 2008
- Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day)
- Corel® WinDVD® (DVD±RW, Blu-ray)
- CyberLink Power2Go (DVD±RW, Blu-ray)

### Tower
- Black color bezel
- 7.1" W X 17.0" D X 15.0" H
- 180mm W X 432mm D X 380mm H
- 21.5 lb (9.75 kg)
- Toolless cover removal
- Toolless disk, optical drive removal
- Toolless adapter retention

### Visitor preload date
- Prem 64 Jan 09
- Prem 64 Jan 09
- Prem 64 Jan 09
- Prem 64 Jan 09
- Prem 64 Jan 09
- Prem 64 Jan 09
- Prem 64 Feb 09
- Prem 64 Jan 09
- Prem 64 Jan 09
- Prem 64 Jan 09
- Prem 64 Jan 09
- Prem 64 Jan 09

### US models withdrawn effective January 18, 2012

### 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)
- 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

### Footnotes
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<td>16-in-1</td>
<td>1TB</td>
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<td>11b/g</td>
<td>Prem 64 Aug 09</td>
<td></td>
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</tr>
</tbody>
</table>

- Antibacterial keyboard uses special material on the surface of the keys to restrain bacterial growth
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

### Processor
- Intel® Pentium® Processor E5200 with dual-core, 800MHz system bus, and 2MB L2 cache or
- Intel Core™ 2 Duo Processor E7500 with dual-core 1066MHz system bus, and 3MB L2 cache or
- Intel Core 2 Quad Processor Q8200 with quad-core (dual-core on dual-die), 1333MHz system bus, and 4MB L2 cache

### Implementation
- Processor in FC-LGA6 package in LGA775 socket

### Memory
- 6GB or 8GB std, 8GB max, PC2-5300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets

### Graphics
- Some: Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G33, uses main memory, one 15-pin analog VGA DB-15 connector
- Some: NVIDIA® GeForce® 9300 GE, PCI Express x16, 512MB memory, DirectX® 10, TurboCache, PureVideo™ HD technology, S-video out for TV-out, VGA DB-15 connector, DVI-I connector, HDCP-compliant

### SATA disk
- 500GB, 640GB, or 1TB SATA 3Gbps, 7200 rpm

### SATA controller
- Serial ATA, SATA 3.0Gbps, integrated in ICH9DH

### SATA cables
- Two SATA cables (each 1-drop to device), four SATA connectors

### EIDE controller
- None

### Diokette drive
- None

### Media reader
- 16-in-1 media reader, internal USB 2.0

### Chipset
- Intel G33 Express Chipset (PCI Express x16), I/O Controller Hub 9 Digital Home [ICH9DH] (SATA 3.0Gbps, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5617 Super I/O

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

### Rear ports
- Four USB 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, DVI-I), S-Video out; Others: monitor (VGA DB-15)

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

### Audio
- High Definition (HD) audio, AD1988 codec

### External speakers
- None

### Internal speaker
- None

### Ethernet
- Gigabit ethernet on planar, Intel 82566GC

### Wireless
- Some: 11b/g wireless, Broadcom® BCM4312, PCIe x1 adapter

### Modem
- None

### Security chip
- None

### TV tuner
- Some: Hybrid tuner, support analog (NTSC) and digital (ATSC) signal, Hauppauge WinTV-HVR-1250, PCIe x 1

### Remote control
- Some: Philips® Vista MCE remote control (40-button), IR receiver via USB

### Camera
- None

### Keyboard
- 104-key antibacterial keyboard (PS/2 connector)

### Mouse
- Optical Wheel Mouse (USB connector), 400 dpi

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

### Preloaded operating system
- Genuine Windows® Vista® Home Premium 64
- 32-bit (4-64) Vista Basic logo

### Preloaded applications
- Lenovo® OneKey Recovery
- Driver and Application Installation
- Trend Micro® PC-cillin® Internet Security 2008
- Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day)
- Corel® WinDVD® (DVD±RW)
- CyberLink Power2Go (DVD±RW)

### 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):
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (781553)
  - 24x7® toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

US models announced August 19, 2009
US models withdrawn effective January 18, 2012

© Lenovo (KW3-3) January 2012
IdeaCentre K300 (5316) - Windows 7 - withdrawn

- Power control switch on front to adjust power and energy for three modes (cool, auto, and turbo)
- Lenovo Rescue System provides OneKey recovery without booting into Windows

**Processor**
- Intel® Pentium® Processor E5300 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB L2 cache or
- Intel Core 2 Duo™ Processor E7500 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB L2 cache or
- Intel Core 2 Quad Processor Q8300 with quad-core (dual-core on dual-die), Intel 64 Technology, Execute Disable Bit, EIST, 1333MHz system bus, and 4MB L2 cache

**Memory**
- 3GB, 4GB, 6GB, or 8GB std, 8GB max, dual-channel capable, PC3-8500 1066MHz DDR3, non-parity, four 240-pin DIMM sockets

**Graphics**
- Some: Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G43, uses main memory, DirectX® 10, one 15-pin analog VGA DB-15 connector
- Some: ATI™ Radeon™ HD 4350, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD, VGA, DVI-I, HDCP-compliant
- Some: ATI™ Radeon™ HD 4650, PCI Express® x16, 1GB memory, DirectX® 10, ATI Avivo™ HD, VGA, HDMI, DisplayPort, HDCP-compliant

**SATA disk**
- 320GB, 640GB, or 1TB SATA 3Gb/s, 7200 rpm

**SATA controller**
- Serial ATA, SATA 3.0Gb/s, integrated in ICH10R, RAID 0 support

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

**SATA Blu-ray™**
- Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, DVD and CD recordable

**SATA cables**
- Two SATA cables (each 1-drop to device), five SATA connectors

**EIDE controller**
- None

**Diskette drive**
- None

**Media reader**
- 16-in-1 media reader, internal USB 2.0

**Chipset**
- Intel G43 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 RAID [ICH10R] (SATA 3.0Gb/s with RAID 0 support, PCI Express® x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCH5147-NW Super I/O

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

**Rear ports**
- Six USB 2.0, one serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45),
- HD 4650 models: monitor (VGA DB-15, HDMI, DisplayPort)
- HD 4350 models: monitor (VGA DB-15, DVI-I)
- Others: monitor (VGA DB-15)

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

**Audio External speakers**
- None

**Internal speaker**
- None

**Wireless Ethernet**
- 10/100 ethernet on planar, Realtek® RTL8102E

**Modem**
- None

**Security chip**
- None

**TV tuner**
- Some: Hybrid tuner, support analog (NTSC) and digital (ATSC) signal, PCI x 1
- Some: Philips® Win7 MCE remote control (40-button), IR receiver via USB

**Remote control Camera**
- None

**Keyboard Mouse**
- Optical Wheel Mouse (USB connector), 1000 dpi, black

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

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

**Preloaded applications™**
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee VirusScan® Plus
- Lenovo Power Dial
- Lenovo Healthcare Software
- Corel® WinDVD® (Blu-ray)
- CyberLink Power2Go® (DVDRW, 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, 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
US models announced October 22, 2009
US models withdrawn effective December 2010

© Lenovo (TNA1-1) December 2010
### IdeaCentre K305 (0890) - Windows 7 - withdrawn

#### Processor
- **AMD® Athlon™ II X2 Processor 215 with dual-core,**
  4000MHz HyperTransport™ Bus,
  AMD Virtualization™ (AMD-V™) technology,
  AMD64 technology, integrated DDR3 memory controller,
  and 1MB L2 cache (512KB per core)

#### Memory
- **RAM:** 4GB or 6GB std. 8GB max,
  dual-channel capable,
  6GB std or 8GB max

#### Graphics
- **ATI™ Radeon™ 3000,** integrated graphics in 760G,
  uses main memory, DirectX® 10, ATI Avivo™, SurroundView™,
  one analog VGA DB-15 connector

#### Media reader
- 16-in-1 media reader, internal USB 2.0

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

#### Tower
- **Power control switch on front to adjust power and energy for three modes (cool, auto, and turbo)**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**

#### Processor

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<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
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<th>Memory</th>
<th>DIMM capacity</th>
<th>Media reader</th>
<th>SATA disks</th>
<th>SATA optical</th>
<th>Integrated graphics</th>
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© Lenovo (TNA1-2) December 2010

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See footnotes for important warranty information.

US models announced March 24, 2010

US models withdrawn effective December 2010

### Service upgrades
- **Plus** (60 days of virus definitions)
- 2-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1552)
- 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
- 1-year Post warranty, Onsite Repair
  - 9x5 Next Business Day (78Y1557)

- **Toolless cover removal**
- **Toolless adapter retention**

**Customer Replaceable Unit (CRU)**
- 1-year parts and labor
- 1-year parts only (with limited onsite service for selected parts, 8 am - 5 pm)

**Limited Warranty**
- 1-year parts and labor
- 3-year Lenovo Onsite Repair
- 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)
  - 1-year Post warranty, Onsite Repair
  - 9x5 Next Business Day (78Y1557)

- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686
IdeaCentre™ K320 (3019) - Windows 7 - withdrawn

**Power control switch on front to adjust power and energy for three modes (cool, auto, and turbo) [except 3019-2GU]**

**Lenovo Rescue System provides OneKey recovery without booting into Windows**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Max turbo GHz</th>
<th>Cache Cores</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Win 7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3019-1AU 4x5</td>
<td>i3-530</td>
<td>2.93</td>
<td>4MB</td>
<td>2</td>
<td>2GBx3</td>
<td>640GB²</td>
<td>DVD±RW</td>
<td>Intel HD</td>
<td>TV</td>
<td>Remote</td>
<td>11b/g/n</td>
<td>Preload 64</td>
<td>Jan 10</td>
</tr>
<tr>
<td>3019-1BU 4x5</td>
<td>i5-750</td>
<td>2.66</td>
<td>3.20</td>
<td>8MB</td>
<td>4</td>
<td>2GBx4</td>
<td>640GB²</td>
<td>DVD±RW</td>
<td>Intel HD</td>
<td>TV</td>
<td>Remote</td>
<td>11b/g</td>
<td>Preload 64</td>
</tr>
<tr>
<td>3019-1CU 4x5</td>
<td>i5-760</td>
<td>2.80</td>
<td>3.46</td>
<td>8MB</td>
<td>4</td>
<td>2GBx4</td>
<td>1TB</td>
<td>Blu-ray HD4650</td>
<td>TV</td>
<td>Remote</td>
<td>11b/g</td>
<td>Preload 64</td>
<td>Jan 10</td>
</tr>
<tr>
<td>3019-1LU 4x5</td>
<td>i7-860</td>
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<td>3.46</td>
<td>8MB</td>
<td>4</td>
<td>2GBx4</td>
<td>1TB</td>
<td>DVD±RW GT 320</td>
<td>11b/g/n³</td>
<td>Preload 64</td>
<td>Sep 10</td>
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<td></td>
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<td>3019-2GU 4x5</td>
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<td>3.20</td>
<td>8MB</td>
<td>4</td>
<td>2GBx3</td>
<td>1TB</td>
<td>Blu-ray HD4650</td>
<td>TV</td>
<td>Remote</td>
<td>11b/g</td>
<td>Preload 64</td>
<td>Sep 10</td>
</tr>
</tbody>
</table>

- **Processor**
  - Intel® Core™ i3 Processor i3-530 or i3-550 with dual-core, Intel 64, Hyper-Threading Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache or
  - Intel Core i5 Processor i5-750 with quad-core, Intel 64, Turbo Boost Technology (up to 3.52 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache or
  - Intel Core i7 Processor i7-860 with quad-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology (up to 3.46 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache or

- **Graphics**
  - Some: Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX® 10, 15-pin analog VGA DB-15 connector, one HDMI connector, HDCP
  - Some: NVIDIA® GeForce® 310, PCI Express® x16, 512MB
  - Some: NVIDIA GeForce® GT 320, PCI Express® x16, 1GB memory, DirectX 10.1, NVIDIA PureVideo®, NVIDIA CUDA™, one analog VGA DB-15 connector, one HDMI connector, HDCP
  - Some: ATI™ Radeon™ HD 4650, PCI Express® x16, 1GB memory, DirectX 10.1, ATI Avivo™ HD, one analog VGA DB-15 connector, one HDMI connector, one DisplayPort™ connector, HDCP

- **SATA disk**
  - 640GB or 1TB, SATA 3Gbps, 7200 rpm

- **SATA controller**
  - SATA 3.0Gbps, integrated on chipset, RAID 0 support

- **SATA optical**
  - Multi-Burner DL DVD±RW SATA 1.5Gbps Drive
  - Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, DVD and CD recordable

- **SATA cables**
  - Two SATA cables (each 1-drop to device), five SATA connectors

- **EIDE controller**
  - None

- **Diskette drive**
  - None

- **Media reader**
  - 16-in-1 media reader, internal USB 2.0

- **Chipset**
  - Intel® H57 Express Chipset

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

- **Rear ports**
  - Six USB 2.0, keyboard (PS/2), ethernet (RJ-45),
  - HD4650 models: VGA DB-15, HDMI, and DisplayPort
  - Others: VGA DB-15 and HDMI

- **Audio**
  - Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm), S/PDIF-out

- **External speakers**
  - None

- **Internal speaker**
  - None

- **Wireless**
  - 11b/g wireless, Broadcom BCM4312, PCIe x1 adapter
  - 11b/gn wireless, Atheros® chip, PCIe x1 adapter

- **Ethernet**
  - Gigabit ethernet on planar, Intel® 82578DC

- **Modem**
  - None

- **Security chip**
  - None

- **TV tuner**
  - Hybrid tuner, support analog (NTSC) and digital (ATSC) signal, PCIe x 1

- **Remote control**
  - Philips® Win7 MCE remote control (40-button), IR receiver via USB

- **Keyboard**
  - Full-size keyboard (PS/2 connector), Fn keys, black

- **Mouse**
  - Optical Wheel Mouse (USB connector), 1000 dpi, black

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

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

- **Preloaded applications**
  - Lenovo® OneKey Recovery
  - Driver and Application Installation

- **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 models announced February 3, 2010 or September 8, 2010
US models withdrawn effective November 2011

(TNA2-1) November 2011
### IdeaCentre K320 (3019) - Windows 7 (web only models) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>GHz</th>
<th>Core</th>
<th>Memory</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Win 7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3019-1DU 4x5</td>
<td>i5-350</td>
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<td>4MB</td>
<td>2</td>
<td>256x2</td>
<td>1066</td>
<td>16-in-1</td>
<td>500GBG</td>
<td>DVD±RW</td>
<td>Intel HD</td>
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<td>i5-750</td>
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<td>8MB</td>
<td>4</td>
<td>256x2</td>
<td>1066</td>
<td>16-in-1</td>
<td>640GB</td>
<td>DVD±RW</td>
<td>GeForce 310</td>
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<td>None</td>
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<td>3019-2OU 4x5</td>
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<td>8MB</td>
<td>4</td>
<td>256x3</td>
<td>1333</td>
<td>16-in-1</td>
<td>1TB</td>
<td>Blu-ray</td>
<td>HD 5570</td>
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<td>None</td>
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<td>256x4</td>
<td>1333</td>
<td>16-in-1</td>
<td>1TB</td>
<td>Blu-ray</td>
<td>HD 5570</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

- Power control switch on front to adjust power and energy for three modes (cool, auto, and turbo)
- Lenovo Rescue System provides OneKey recovery without booting into Windows

### Processor
- Intel® Core™ i3 Processor i3-530 with dual-core, Intel 64, Hyper-Threading Technology, integrated 1333MHz dual-channel DDR3 memory controller, 4MB cache
- Intel Core i5 Processor i5-750 with quad-core, Intel 64, Turbo Boost Technology (up to 3.20 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache
- Intel Core i7 Processor i7-870 with quad-core, Intel 64, Hyper-Threading Technology, Turbo Boost Technology (up to 3.60 GHz at max turbo mode), integrated 1333MHz dual-channel DDR3 memory controller, 8MB cache

### Implementation
- Processor in LGA1156 socket

### Memory
- 4GB, 6GB, or 8GB std, 8GB max, dual-channel capable, PC3-8500 1066MHz DDR3 or PC3-10600 1333 MHz DDR3, non-parity, four 240-pin DIMM sockets

### Graphics
- Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX® 10.1, NVIDIA® PureVideo®, NVIDIA CUDA™, one analog VGA DB-15 connector, one HDMI connector, HDCP
- NVIDIA GeForce GT 330, PCI Express x16, 1GB memory, DirectX 10, NVIDIA PureVideo, NVIDIA CUDA, one analog VGA DB-15 connector, one HDMI connector, HDCP
- ATI™ Radeon HD 5570, PCI Express x16, 1GB memory, DirectX 11, ATI Avivo™ HD, one analog VGA DB-15 connector, one HDMI connector, HDCP

### SATA disk
- 500GB, 640GB, or 1TB, SATA 3Gbps/s, 7200 rpm

### SATA controller
- Serial ATA, SATA 3.0Gbps/s, integrated in chipset, RAID 0 support

### SATA optical
- Multi-Burner DL DVD±RW SATA 1.5Gbps Drive
- Blu-ray media burner, BD-ROM, DVD and CD recordable

### SATA cables
- Two SATA cables (each 1-drop to device), five SATA connectors

### Media reader
- 16-in-1 media reader, internal USB 2.0

### Chipset
- Intel H57 Express Chipset

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

### Rear ports
- Six USB 2.0, keyboard (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI)

### Rear audio ports
- Line-in (3.5mm), line-out (3.5mm), microphone-in (3.5mm), S/PDIF-out

### Audio
- High Definition (HD) audio, ALC888S codec

### External speakers
- None

### Internal speaker
- None

### Wireless
- None

### Ethernet
- Gigabit ethernet on planar, Intel 82578DC

### Modem
- None

### Security chip
- None

### TV tuner
- None

### Remote control
- None

### Camera
- None

### Keyboard
- Full-size keyboard (PS/2 connector), Fn keys, black

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

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

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

### Preloaded applications™ (only some listed)
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus
- (60 days of virus definitions)
- Lenovo Power Dial
- Lenovo Healthcare Software
- CyberLink Power2Go (DVD±RW)

### Tower
- Black bezel
- 7.09” W X 17.32” D X 15.35” H
- 180mm W X 440mm D X 390mm H
- 24.6 lb (11.2 kg)
- Toolless cover removal
- Toolless disk, optical drive removal
- Toolless adapter retention

---

**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

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See footnotes for important warranty information

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US models announced April 7, 2010 or December 15, 2010

US models withdrawn effective November 2011
IdeaCentre™ K330 (7727) - Windows 7 - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Max turbo (GHz)</th>
<th>Cache Cores</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Win 7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>7727-1SU</td>
<td>4x4</td>
<td>i7-2600</td>
<td>3.40 3.80</td>
<td>8MB 4</td>
<td>4GBx3</td>
<td>1TB</td>
<td>DVD±RW Georce GT 420</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Feb 11</td>
</tr>
<tr>
<td>7727-1TU</td>
<td>4x4</td>
<td>i7-2600</td>
<td>3.40 3.80</td>
<td>8MB 4</td>
<td>4GBx2</td>
<td>1TB</td>
<td>DVD±RW Georce GT 420</td>
<td>None</td>
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<tr>
<td>7727-2KU</td>
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<td>i5-2300</td>
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<td>4GBx2</td>
<td>1TB</td>
<td>DVD±RW Georce GT 420</td>
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<td>None</td>
<td>Feb 11</td>
</tr>
<tr>
<td>7727-2LU</td>
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<td>i5-2300</td>
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<td>2GBx3</td>
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<td>DVD±RW Georce GT 420</td>
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<td>Feb 11</td>
</tr>
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<td>7727-4HU</td>
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<td>i7-2600</td>
<td>3.40 3.80</td>
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<td>4GBx3</td>
<td>1.5TB</td>
<td>DVD±RW Radeon HD 6450</td>
<td>None</td>
<td>None</td>
<td>11b/g/n</td>
<td>None</td>
<td>Prem 64</td>
<td>Jul 11</td>
</tr>
</tbody>
</table>

- Power control switch on front to adjust power and energy for three modes (cool, auto, and turbo)
- Lenovo Rescue System provides OneKey recovery without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

Processor

Intel® Core™ i5-2300 Processor (4 cores / 4 threads, 2.80 GHz, 6M Cache)

Turbo Boost Technology 2.0 (up to 3.10 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

Intel® Core™ i7-2600 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache), Turbo Boost Technology 2.0 (up to 3.80 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

Implementation

Processor in LGA1155 socket

Memory

16GB max8, dual-channel capable, PC3-10600 1333MHz DDR3, non-parity, four 240-pin DIMM sockets

Graphics

Some: NVIDIA® GeForce® GT 420, PCI Express x16, 1GB memory,

DirectX® 11, NVIDIA CUDA™ Technology, one VGA DB-15 connector, one HDMI connector, HDCP-compliant

Some: AMD Radeon™ HD 6450, PCI Express x16, 1GB memory, DirectX 11, one VGA DB-15 connector, one HDMI connector, HDCP-compliant

SATA disk

1TB or 1.5TB, SATA 3 Gb/s, 7200 rpm

SATA controller

Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0 support

SATA optical

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

SATA cables

Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, two SATA 6.0Gb/s connectors, and one eSATA connector

EIDE controller

None

Diskette drive

None

Media reader

16-in-1 media reader, internal USB 2.0

Chipset

Intel® P67 Express Chipset

Front ports

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

Rear ports

Six USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), one eSATA, monitor (VGA DB-15, HDMI)

Rear audio ports

Line-in (3.5mm), line-out [Front out L/R] (3.5mm), microphone-in (3.5mm), monitor (VGA DB-15, HDMI), Cen/LFE (3.5mm), Rear out L/R (3.5mm), Side surround out L/R (3.5mm)

Audio

High Definition (HD) audio, ALC892 codec

External speakers

None

Internal speaker

None

Wireless

Some: 11b/g/n wireless®, Realtek® RTL8818CE, PCIe x1 adapter

Ethernet

Gigabit ethernet on planar, Intel 82579

Modem

None

Security chip

None

TV tuner

None

Remote control

None

Camera

None

Keyboard

Full-size keyboard (PS/2 connector), Fn keys, black

Mouse

Optical Wheel Mouse (USB connector), black

Power supply

280 watts, universal, manual switch

Machine

- Black bezel
- 7.09” W X 17.32” D X 15.35” H
- 180mm W X 440mm D X 390mm H
- 24.6 lb (11.2 kg)
- Toolless cover removal
- Toolless disk, optical drive removal
- Toolless adapter retention

Bay

Bay 1: 2.52”, 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

Slot

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

- Wireless adapter or TV tuner in slot in some models
- Graphics adapter in slot in some models

Preloaded operating system®

- Genuine Windows® 7
- Home Premium 64

Preloaded applications® (only some listed)

- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus
- (60 days of virus definitions)
- Lenovo Power Dial
- CyberLink Power2Go (DVD±RW)
- Microsoft Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- Windows Live Essentials
- Backstrack

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

US model(s) announced February 16 or July 6, 2011
US model(s) withdrawn effective April 2013

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Personal Systems Reference (PSREF)
### IdeaCentre K330 (7727) - Windows 7 (April 2011) - withdrawn

#### Processor
- **Intel® Core™ i5-2300 Processor** (4 cores / 4 threads, 2.80 GHz, 6M Cache)
- **Intel® Core™ i7-2600 Processor** (4 cores / 8 threads, 3.40 GHz, 8M Cache)

#### Graphics
- **NVIDIA® GeForce® GT 420**, 1GB memory, DirectX 11
- **AMD Radeon™ HD 6450**, 1GB memory, DirectX 11

#### Memory
- 16GB max, dual-channel capable, PC3-10600 1333MHz DDR3, non-parity, four 240-pin DIMM sockets

#### SATA disk
- **1TB, 1.5TB, or 2TB SATA 3 Gb/s, 7200 rpm**

#### Optical Drive
- **Blu-ray**

#### Network Interfaces
- **Gigabit ethernet on planar, Intel 82579**

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

#### Rear audio ports
- Line-in (3.5mm), line-out [Front out L/R] (3.5mm), microphone-in (3.5mm)

#### USB Ports
- Six USB 2.0, two USB 3.0 on some models, keyboard (PS/2), mouse (PS/2)

#### Optical Drive
- **Disc reader (no Blu-ray media burning), BD-ROM, DVD / CD recordable**

#### Power Management
- Power control switch on front to adjust power and energy for three modes (cool, auto, and turbo)
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

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

#### Preloaded applications
- **Lenovo® OneKey Recovery**
- **Driver and Application Installation**
- **McAfee® VirusScan® Plus** (60 days of virus definitions)
- **Lenovo Power Dial**
- **CyberLink Power2Go** (DVD±RW, Blu-ray)
- **Microsoft Office 2010 preloaded; purchase product key to activate**
- **Lenovo Dynamic Brightness System**
- **Lenovo Eye Distance System**
- **Windows Live Essentials**
- **Backontrack**

#### 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
  - 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**

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US model(s) announced April 7 or November 23, 2011 or February 29, 2012

US model(s) withdrawn effective April 2013

(TNA4-3) April 2013
### IdeaCentre K330 (7727) - Windows 7 (web only models) - withdrawn

**Processor**
- Intel® Core™ i5-2300 Processor (4 cores / 4 threads, 2.80 GHz, 6M Cache)
- Turbo Boost Technology 2.0 (up to 3.70 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

**Intel Core i5-2500 Processor (4 cores / 4 threads, 3.30 GHz, 6M Cache)**
- Turbo Boost Technology 2.0 (up to 3.70 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

**Intel Core i7-2600 Processor (4 cores / 8 threads, 3.40 GHz, 8M Cache)**
- Turbo Boost Technology 2.0 (up to 3.80 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

**Memory**
- 16GB max, dual-channel capable, PC3-10600 1333MHz DDR3, non-parity, four 240-pin DIMM sockets

**Graphics**
- Some: NVIDIA GeForce GTX 460, PCI Express x16, 1GB memory, DirectX 11
- Some: ATI Radeon HD 5750, PCI Express x16, 1GB memory, DirectX 11

**SATA disk**
- 1TB or 2TB, SATA 3.0Gb/s, 7200 rpm

**SATA optical**
- Serial ATA, SATA 3.0Gb/s and SATA 6.0Gb/s, integrated in chipset, RAID 0 support

**SATA cables**
- Two SATA cables (each 1-drop to device), two SATA 3.0Gb/s connectors, two SATA 6.0Gb/s connectors, and one eSATA connector

**Diskette drive**
- None

**Media reader**
- 16-in-1 media reader, internal USB 2.0

**Chipset**
- Intel P67 Express Chipset

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

**Rear audio ports**
- Six USB 2.0, keyboard (PS/2), mouse (PS/2), network (RJ-45), one eSATA

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

**Power supply**
- 280W, universal, auto-sensing

**Machine**
- Black bezel
- 7.09” W X 17.32” D X 15.35” H; 180mm W X 440mm D X 390mm H
- 24.6 lb (11.2 kg)
- Toolless cover removal
- Toolless disk, optical drive removal
- Toolless adapter retention
- Keyboard/optical drive removal

**Bay**
- 4x4

**Slot**
- 5.25”, 16” high, access, standard optical
- 5.25”, 16” high, access, open
- 3.5”, 1” high, no access, standard disk
- 3.5”, 1” high, no access, optical disk

**Graphics adapter in slot in some models**
- Some: 280W, universal, manual switch
- Some: 450 watts, universal, auto-sensing

---

**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

(TNA4-2) April 2013

US model(s) announced March 9, 2011 or February 29, 2012

US model(s) withdrawn effective April 2013
### IdeaCentre™ K330B (7747) - withdrawn

<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>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Keyboard / Mouse</th>
<th>Win 7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>7747-1EU</td>
<td>4x4</td>
<td>Intel® Core™ i3-2100 Processor (2 cores / 4 threads, 3.10 GHz, 3M Cache), DDR3 memory controller (up to 1333MHz)</td>
<td>3.10  2.40 GHz, 2 GB</td>
<td>1TB DVD-ROM</td>
<td>Intel HD 2000</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Aug 11</td>
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<td></td>
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<tr>
<td>7747-1KU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2310 Processor (4 cores / 4 threads, 2.90 GHz, 6M Cache)</td>
<td>2.90 4 GBx2</td>
<td>1.5TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Aug 11</td>
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<td></td>
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<tr>
<td>7747-1QU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2310 Processor (4 cores / 4 threads, 2.90 GHz, 6M Cache)</td>
<td>2.90 4 GBx2</td>
<td>1.5TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
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<tr>
<td>7747-1GU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2310 Processor (4 cores / 4 threads, 2.90 GHz, 6M Cache)</td>
<td>2.90 4 GBx2</td>
<td>1.5TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Aug 11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7747-2AU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2320 Processor (4 cores / 4 threads, 3.20 GHz, 8M Cache)</td>
<td>3.20 4 GBx2</td>
<td>1TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Nov 11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7747-2BU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2320 Processor (4 cores / 4 threads, 3.20 GHz, 8M Cache)</td>
<td>3.20 4 GBx2</td>
<td>1TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Nov 11</td>
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<td></td>
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<tr>
<td>7747-2CU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2320 Processor (4 cores / 4 threads, 3.20 GHz, 8M Cache)</td>
<td>3.20 4 GBx2</td>
<td>1TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Nov 11</td>
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<td></td>
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<td>7747-2JU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2320 Processor (4 cores / 4 threads, 3.20 GHz, 8M Cache)</td>
<td>3.20 4 GBx2</td>
<td>1TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Nov 11</td>
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</tr>
<tr>
<td>7747-2DU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2320 Processor (4 cores / 4 threads, 3.20 GHz, 8M Cache)</td>
<td>3.20 4 GBx2</td>
<td>1TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Nov 11</td>
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<tr>
<td>7747-2FU</td>
<td>4x4</td>
<td>Intel® Core™ i5-2320 Processor (4 cores / 4 threads, 3.20 GHz, 8M Cache)</td>
<td>3.20 4 GBx2</td>
<td>1TB DVD-ROM</td>
<td>Intel HD 6450</td>
<td>None None</td>
<td>None None</td>
<td>PS/2 / USB</td>
<td>Prem 64 Nov 11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Processor Details

- **Intel® Core™ i3-2100 Processor** (2 cores / 4 threads, 3.10 GHz, 3M Cache), DDR3 memory controller (up to 1333MHz)
- **Intel® Core™ i5-2310 Processor** (4 cores / 4 threads, 2.90 GHz, 6M Cache)
- **Intel® Core™ i5-2320 Processor** (4 cores / 4 threads, 3.20 GHz, 8M Cache)
- **Intel® Core™ i7-2600 Processor** (4 cores / 4 threads, 3.40 GHz, 8M Cache)

### Memory Details

- 8GB max, dual-channel capable, PC3-10600 1333MHz DDR3, non-parity, two 240-pin DIMM sockets

### Graphics Details

- **Intel® HD Graphics 2000**, integrated in processor, uses main memory, DirectX 10.1, one VGA connector, one HDMI connector, HDCP-compliant
- **AMD Radeon™ HD 6450**, PCI Express x16, 1GB memory, DirectX 11, one VGA connector, one HDMI connector, HDCP-compliant

### Chipset Details

- **Intel® H61 Express Chipset**, with onboard LAN/AGP/PCI Express PCI 2.0

### Input/Output Details

- **Internal speaker**: None
- **External speakers**: 16-in-1 media reader, internal USB 2.0
- **Wireless**: None
- **Modem**: None
- **Network adapter**: None

### Preloaded Operating System

- Genuine Windows® 7
- Home Premium 64

### Preloaded Applications

- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus
- Lenovo Power Dial
- CyberLink Power2Go (DVDb-R, Blu-ray)
- Microsoft Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- Windows Live Essentials
- Backontrack

### 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
- 3-year Lenovo Onsite Repair
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686
### IdeaCentre A300 (4018) - Windows 7 - withdrawn

**Personal Systems Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>External optical</th>
<th>PCIe Mini Card</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Bluetooth</th>
<th>KBD/ Mouse</th>
<th>Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4018-1DU</td>
<td>T4400</td>
<td>2.20</td>
<td>3GB</td>
<td>21.5&quot; WUXGA</td>
<td>0.3M</td>
<td>GMA 4500MHD</td>
<td>320GB</td>
<td>None</td>
<td>11b/g/n³</td>
<td>None</td>
<td>None</td>
<td>Bluetooth</td>
<td>BT/BT</td>
<td>Prem 64</td>
<td>Mar 10</td>
</tr>
<tr>
<td>4018-1EU</td>
<td>T6600</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; WUXGA</td>
<td>0.3M</td>
<td>GMA 4500MHD</td>
<td>500GB</td>
<td>None</td>
<td>11b/g/n³</td>
<td>None</td>
<td>None</td>
<td>Bluetooth</td>
<td>BT/BT</td>
<td>Prem 64</td>
<td>Mar 10</td>
</tr>
</tbody>
</table>

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

**Processor**

Intel® Pentium® Processor T4400 with dual-core,
800MHz system bus, and 1MB L2 cache or
Intel Core™2 Duo processor T6600 with dual-core,
800MHz system bus, and 2MB L2 cache

**Memory**

3GB or 4GB std / 4GB max⁷ / PC3-8500 1066MHz DDR3, non-parity,
dual-channel capable, two 204-pin SO-DIMM sockets;
*italics:* standard memory in both sockets; no sockets available

**External DVD:RW**

None or 500GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

**Widescreen display**

21.5" (646.1mm) WUXGA (1920x1080) TFT color, VibrantView (glossy),
CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio,
frameless screen

**Camera**

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

**Graphics**

Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), integrated graphics in GM45, uses main memory, DirectX® 10

**Chipset**

Mobile Intel GM45 Express Chipset, ICH9M I/O Controller Hub

**Multicard reader**

8-in-1 reader (MultiMedia Card, RS-MMC, Memory Stick, Memory Stick PRO™, Memory Stick Duo, Secure Digital Card, miniSD, xD-Picture Card)

**Ports**

Rear: Two USB 2.0, ethernet (RJ-45), TV antenna connector on some models;
IEEE 1394 FireWire 400 (4-pin connector), HDMI in/out
Side: Two USB 2.0

**PCle Mini Card**

11b/g/n³, 2 PCIe Mini Card slots

**Bluetooth™**

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

**Modem**

None

**Audio support**

Gigabit ethernet on planar, Realtek® RTL8111DL

**Security**

Power-on password, supervisor password, security lockhole

**Keyboard**

Wireless keyboard via Bluetooth®, 6-row, multimedia F'n keys, white

**Mouse**

Wireless laser mouse via Bluetooth®, 1200 dpi, white

**Remote control**

None

**Dimensions**

With base (WxHxD): 20.63" x 15.59" x 8.27"; 524mm x 396mm x 210mm
Screen depth: 0.73"; 18.5mm

**Weight**

22.9 lb (10.4 kg)

**View adjustments**

Tilt: 18° back, 3° forward; swivel: +/-10°

See footnotes for important warranty information
US model(s) announced March 11, 2010
US model(s) withdrawn effective April 2013

© Lenovo (SMU1-2) April 2013

### Preloaded operating system
- Genuine Windows® 7
  - Home Premium 64
- Lenovo OneKey Recovery
- Media Show
- Lenovo CamSuite
- McAfee® VirusScan® Plus
  (60 days of virus definitions)
- Windows Live™ Essential
- Microsoft® Office 2007 Trial (60-day)

### Preloaded applications
- (only some listed)
  - Lenovo® OneKey Recovery
  - Media Show
  - Lenovo CamSuite
  - McAfee® VirusScan® Plus
    (60 days of virus definitions)
  - 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 parts⁶,
8 am - 5 pm)
- Service upgrade options
  (in eligible locations):³
  - 2-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
- 24x7¹⁰ toll-free support for warranty issues during the warranty period¹
via 877-453-6686

120-watt AC adapter
RoHS-compliant
### IdeaCentre™ A300 (4018) - Windows 7 (web only models) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATA Disk</th>
<th>External optical</th>
<th>PCIe Mini Card</th>
<th>TV Tuner</th>
<th>Remote control</th>
<th>Bluetooth</th>
<th>KBD/ Mouse</th>
<th>Win7 Preload</th>
<th>Avail Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4018-1MU</td>
<td>T4400</td>
<td>2.20</td>
<td>2GB</td>
<td>21.5&quot; WUXGA</td>
<td>0.3M</td>
<td>GMA 4500MHD</td>
<td>320GB*</td>
<td>None</td>
<td>11b/g/n</td>
<td>TV</td>
<td>None</td>
<td>Bluetooth</td>
<td>BT/ BT</td>
<td>Prem 64</td>
<td>Mar 10</td>
</tr>
<tr>
<td>4018-1NU</td>
<td>T4400</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; WUXGA</td>
<td>0.3M</td>
<td>GMA 4500MHD</td>
<td>500GB</td>
<td>None</td>
<td>11b/g/n</td>
<td>TV</td>
<td>None</td>
<td>Bluetooth</td>
<td>BT/ BT</td>
<td>Prem 64</td>
<td>Mar 10</td>
</tr>
<tr>
<td>4018-1OU</td>
<td>T6600</td>
<td>2.20</td>
<td>4GB</td>
<td>21.5&quot; WUXGA</td>
<td>0.3M</td>
<td>GMA 4500MHD</td>
<td>500GB</td>
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<td>11b/g/n</td>
<td>TV</td>
<td>None</td>
<td>Bluetooth</td>
<td>BT/ BT</td>
<td>Prem 64</td>
<td>Mar 10</td>
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<tr>
<td>4018-4BU</td>
<td>T6570</td>
<td>2.10</td>
<td>4GB</td>
<td>21.5&quot; WUXGA</td>
<td>0.3M</td>
<td>GMA 4500MHD</td>
<td>500GB</td>
<td>None</td>
<td>11b/g/n</td>
<td>TV</td>
<td>None</td>
<td>Bluetooth</td>
<td>BT/ BT</td>
<td>Prem 64</td>
<td>Feb 11</td>
</tr>
</tbody>
</table>

- All-in-One design with 21.5° Full HD 16:9 widescreen, glossy display
- (Selected models) Integrated TV tuner
- Lenovo Rescue System provides OneKey recovery without booting into Windows

**Processor**

Intel® Pentium® Processor T4400 with dual-core, 800MHz system bus, and 1MB L2 cache or Intel Core™ 2 Duo processor T6570 or T6600 with dual-core, 800MHz system bus, and 2MB L2 cache

**Memory**

2GB or 4GB std / 4GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; Non-italics: standard memory in one socket; one socket available

**External DVD:**RW None

SATA disk 320GB or 500GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

**Widescreen display**

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

**Camera**

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

**Graphics**

Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), integrated graphics in GM45, uses main memory, DirectX™ 10

**Chipset**

Mobile Intel GM45 Express Chipset, ICH9M I/O Controller Hub

**Multicard reader**

8-in-1 reader (MultiMedia Card, RS-MMC, Memory Stick, Memory Stick PRO™, Memory Stick Duo, Secure Digital Card, miniSD, xD-Picture Card™)

**Ports**

Rear: Two USB 2.0, ethernet (RJ-45), TV antenna connector on some models; IEEE 1394 FireWire 400 (4-pin connector), HDMI in/out

**Power-on password, supervisor password, security lockhole**

Microphone input jack (3.5 mm), headphone jack / S/PDIF-out (3.5 mm)

**Graphics**

Gigabit ethernet on planar, Realtek® RTL8111DL

**Modem**

AverMedia® chip or Atheros chip

**Audio support**

Gigabit ethernet on planar, Realtek® RTL8111DL / stereo speakers (2 watt x 2) / mono microphone, microphone input jack (3.5 mm), headphone jack / S/PDIF-out (3.5 mm)

**Security**

Power-on password, supervisor password, security lockhole

**Keyboard**

Wireless keyboard via Bluetooth, 6-row, multimedia Fn keys, white

**Remote control**

Wireless laser mouse via Bluetooth, 1200 dpi, white

**Dimensions**

With base (WxHxD): 20.63" x 15.59" x 8.27"; 524mm x 396mm x 210mm

Screen depth: 0.73"; 18.5mm

**Weight**

22.9 lb (10.4 kg)

**Chassis**

White color, ABS plastic

**View adjustments**

Tilt: 18° back, 3° forward; swivel: +/-10°

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See footnotes for important warranty information

US model(s) announced February 5, 2010 or February 16, 2011

US model(s) withdrawn effective April 2013

© Lenovo (SMU1-1) April 2013

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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
- 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

120-watt AC adapter
RoHS-compliant
IdeaCentre™ A310 (4073) - Windows 7 - withdrawn

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Pentium® processor P6100 with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), and 3MB cache or Intel® Core™ i3 processor i3-370M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>4GB std / 8GB max7 / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
</tr>
<tr>
<td>External DVD±RW</td>
<td>USB 2.0 external DVD burner, tray-in</td>
</tr>
<tr>
<td>SATA disk</td>
<td>320GB or 500GB, SATA 3.0Gb/s, 2.5&quot; wide, 5400 rpm</td>
</tr>
<tr>
<td>Widescreen display</td>
<td>21.5&quot; (546.1mm) Full HD (WUXGA 1920x1080) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen</td>
</tr>
<tr>
<td>Camera Controls</td>
<td>Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel HD Graphics in processor, external digital monitor support via HDMI out connector, HDCP-compliant</td>
</tr>
<tr>
<td>Chipset</td>
<td>Mobile Intel HM55 Express Chipset</td>
</tr>
<tr>
<td>Multicard reader</td>
<td>7-in-1 reader (MultiMedia Card, RS-MMC, Memory Stick, Memory Stick PRO™, Memory Stick Duo, Secure Digital Card, miniSD)</td>
</tr>
<tr>
<td>Ports Rear</td>
<td>Two USB 2.0, ethernet (RJ-45), TV tuner connector on some models; HDMI in, HDMI out</td>
</tr>
<tr>
<td>Side</td>
<td>Two USB 2.0</td>
</tr>
<tr>
<td>PCIe Mini Card 11b/g/n8</td>
<td>Two PCIe Mini Card slots</td>
</tr>
<tr>
<td>TV tuner</td>
<td>11b/g/n wireless®, PCIe Half Mini Card, Broadcom® BCM43225</td>
</tr>
<tr>
<td>Bluetooth®</td>
<td>Bluetooth 2.1 wireless + EDR, USB 2.0 interface, LED indicator</td>
</tr>
<tr>
<td>Modem</td>
<td>None</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit ethernet on planar, Realtek® RTL8111DL</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Realtek ALC272 codec / stereo speakers (2 watt x 2) / mono microphone, microphone input jack (3.5 mm), headphone jack / S/PDIF-out (3.5 mm)</td>
</tr>
<tr>
<td>Security</td>
<td>Power-on password, supervisor password, security lockhole</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Wireless keyboard via Bluetooth, 6-row, multimedia Fn keys, white</td>
</tr>
<tr>
<td>Mouse</td>
<td>Wireless laser mouse via Bluetooth, white</td>
</tr>
<tr>
<td>Remote control</td>
<td>Some: MCE remote control, via IR</td>
</tr>
<tr>
<td>Dimensions3</td>
<td>With base (WxHxD): 20.63&quot; x 15.59&quot; x 8.15&quot;; 524mm x 396mm x 207mm</td>
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<tr>
<td>Weight4</td>
<td>15.9 lb (7.2 kg), weight may vary by configuration</td>
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<tr>
<td>Chassis</td>
<td>White color, ABS plastic</td>
</tr>
<tr>
<td>View adjustments</td>
<td>Tilt: 18° back, 3° forward; swivel: +/-10°</td>
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</tbody>
</table>

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

Preloaded applications® (only some listed):
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- CyberLink YouCam
- Windows Live™ Essential
- Microsoft Office 2010 preloaded; purchase product key to activate
- CyberLink Power2Go® (DVD±RW)

Limited Warranty:
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts8, 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
US model(s) announced August 25, 2010
US model(s) withdrawn effective April 2013
IdeaCentre™ A310 (4073) - Windows 7 (web only models) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor GHz</th>
<th>Max turbo GHz</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>CCFL or LED</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>External optical</th>
<th>PCIe Mini Card 820.11</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>KBD/ Mouse preload</th>
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<td>4073-1GU</td>
<td>i3-350M</td>
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<td>Remote</td>
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<td>11b/g/n</td>
<td>TV</td>
<td>Remote</td>
<td>BT/CT Prem 64 Aug 10</td>
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<td>TV</td>
<td>Remote</td>
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- All-In-One design with 21.5" Full HD 16:9 widescreen, glossy display
- (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: Intel® Core™ i3 processor i3-350M or i3-370M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache or Intel Core i5 processor i5-450M with dual-core, DMI, integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache

Memory: 8GB max / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

External DVD±RW: Some: USB 2.0 external DVD burner, tray-in

SATA disk: 320GB, 500GB, or 750GB, SATA 3.0Gb/s, 2.5” wide, 5400 rpm

Widescreen display: 21.5” (546.1mm) Full HD (1920x1080) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 100:1 contrast ratio, frameless screen

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

Controls: Touch-sensitive buttons for Menu/OK button and Direction buttons

Graphics: Intel HD Graphics in processor, external digital monitor support via HDMI out connector, HDCP-compliant

Chipsset: Mobile Intel HM55 Express Chipset

Multicard reader: 7-in-1 reader (MultiMedia Card, RS-MMC, Memory Stick, Memory Stick PRO™, Memory Stick Duo, Secure Digital Card, miniSD)

Ports: Rear: Two USB 2.0, ethernet (RJ-45), TV tuner connector on some models; HDMI in, HDMI out

Side: Two USB 2.0

PCle Mini Card: Two PCIe Mini Card slots

11b/g/n: 11b/g wireless®, PCIe Half Mini Card, Broadcom® BCM43225 Bluetooth®: Bluetooth 2.1 wireless + EDR, USB 2.0 interface, LED indicator

Modem: None

Ethernet: Gigabit ethernet on planar, Realtek® RTL8111DL

Audio support: High Definition (HD) Audio, Realtek ALC272 codec / stereo speakers (2 watt x 2) / mono microphone, microphone input jack (3.5 mm), headphone jack / S/PDIF-out (3.5 mm)

Security: Power-on password, supervisor password, security lockhole

Keyboard: Wireless keyboard via Bluetooth, 6-row, multimedia Fn keys, white

Mouse: Wireless laser mouse via Bluetooth, white

Remote control: Some: MCE remote control, via IR

Dimensions: With base (WxHxD): 20.63" x 15.59" x 8.15"; 524mm x 396mm x 207mm

Screen depth: 0.73"; 18.5mm

Weight: 15.9 lb (7.2 kg), weight may vary by configuration

Chassis: White color, ABS plastic

View adjustments: Tilt: 18° back, 3° forward; swivel: +/-10°

See footnotes for important warranty information

US model(s) announced August 25, 2010 or March 9 or May 18, 2011
US model(s) withdrawn effective April 2013

120-watt AC adapter
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
- 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 system:
- Genuine Windows® 7 Home Premium 64
- Preloaded applications (only some listed):
  - Lenovo® OneKey Recovery
  - Driver and Application Installation
  - McAfee® VirusScan® Plus (60 days of virus definitions)
  - CyberLink YouCam
  - Windows Live Essentials
  - Microsoft Office 2010 preloaded; purchase product key to activate
  - CyberLink Power2Go (DVD±RW)

Lenovo (SMU2-2) April 2013
Lenovo IdeaCentre A600
(Remote control and wireless keyboard/mouse on select models)
IdeaCentre™ A600 (3011) - withdrawn

Personal Systems Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera (mega-pixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Mini PCIe</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Microphone</th>
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</tr>
</tbody>
</table>

- All-In-One design with 21.5" Full HD 16:9 widescreen, glossy display
- (Selected models) Integrated TV tuner
- (Selected models) 4-in-1 remote control acts as a motion game controller (requires game support), VOIP handset, Vista Media Center remote and air mouse
- Integrated camera and Lenovo’s VeriFace face recognition software helps control access to your notebook by recognizing your face
- Dolby® Home Theater™ premium audio system with two speakers and one subwoofer
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Preloaded operating system:
- Some: Genuine Windows® Vista® Home Premium 64
- Some: Genuine Windows Vista Home Basic 32
- Some: Vista Premium logo

Preloaded applications:
- Lenovo® OneKey Recovery
- Driver and Application Installation
- Lenovo Recovery Disk Maker
- Lenovo Healthcare Software
- VeriFace™
- Media Show
- Trend Micro® PC-cillin™ Internet Security 2008
- Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day)
- Cyberlink Power2Go (DVDRW, BD player)
- Corel® WinDVD® (BD player)

Available at these retailers:
- lenovo.com
- Fry’s

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

See footnotes for important warranty information

US models announced April 22 or April 07, 2009
US models withdrawn effective January 18, 2012

Intel® Pentium® processor T4200 with dual-core, 800MHz system bus, and 1MB L2 cache or
Intel Core™ 2 Duo processor T6400 with dual-core, 800MHz system bus, and 2MB L2 cache or
Intel Core 2 Duo processor P7450 with dual-core, Intel HD Boost, 1066MHz system bus, and 2MB L2 cache

Memory
2GB, 3GB, or 4GB std / 4GB max^ / PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;
Italics: standard memory in both sockets; no sockets available
Non-italics: standard memory in one socket; one socket available

SATA DVD ±RW
Some: DVD burner, dual-layer support, fixed, not removable, 12.7mm, slot-in
Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, no HD-DVD playback, DVD recordable, not removable, 12.7mm high, slot-in

SATA Blu-ray™
Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, HD-DVD playback, DVD recordable, not removable, 12.7mm high, slot-in

SATA disk
320GB, 500GB, 640GB, or 1TB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm

Widescreen display
21.5" (546.11mm) WUXGA (1920x1080) TFT color, VibrantView (glossy), CCFL backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen
Some: camera on top of screen, 1.3-megapixel, fixed focus, with mono microphone
Some: camera on top of screen, 2.0-megapixel, fixed focus, with dual array microphone

Controls
Touch-sensitive buttons for brightness, display on/off, and optical disk drive eject

Graphics
Some: Intel® Graphics Media Accelerator 4500MHD (GMA 4500MHD), integrated graphics in GM45, uses main memory, DirectX® 10
Some: ATI® Mobility Radeon™ HD 3650,PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD

Chipset
Mobile Intel® GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express 1.1, PCI 2.3, ethernet MAC)

Multicard reader
6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™)
Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™

Ports
Rear: Four USB 2.0, ethernet (RJ-45), TV antenna connector on some models;
Left: Two USB 2.0, IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)

Mini PCI Express
Intel® 5100a

11b/g/n Wi-Fi®
Some: 11a/b/g/n wireless®, Mini PCI adapter, Intel® WiFi Link 5100, i2x (Shirley Peak)
Some: 11b/g wireless®, Mini PCI adapter, Broadcom® BCM4312

TV tuner
Some: AverMedia® Hybrid tuner, support analog and digital signal, Mini PCI adapter
Some: Bluetooth 2.1 wireless + EDR, USB 2.0 interface via ICH9M, LED indicator

Ethernet
Gigabit ethernet on planar, Broadcom BCM5784
High Definition (HD) Audio, RealTek® ALC272 codec / two speakers (3 watt) and subwoofer (8 watt), Dolby Home Theater Speaker System

Audio support
Some: monochrome microphone or dual array microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)

Security
Power-on password, hard disk password, supervisor password

Keyboard
Some: Wireless RF 2.4 GHz keyboard with touch pad, 6-row, 84-key, touch-sensitive multimedia keys and shortcut keys
Some: USB full-size keyboard with USB hub (two USB ports)

Mouse
Some: Wireless RF 2.4 GHz Laser Wheel Mouse, 800/1600 dpi (user switchable)
Some: USB Optical Wheel Mouse

Remote control
Some: Vista MCE remote control (40-button), via IR
Some: 4-in-1 remote control, via Bluetooth, acts as motion game controller (requires games® support), VOIP headset, Vista MCE remote control, and air mouse
Motion games CD included in 4-in-1 remote control models (requires installation)

Dimensions
20.47" x 18.22" x 1.10" to 2.36"; 520mm x 463mm x 27 to 60mm

Weight
27.7 lb (12.6 kg)

Chassis
Black color, ABS plastic

Stand
Tilt stand (15° back, 5° forward)
## IdeaCentre A600 (3011) - September 2009 - withdrawn

<table>
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<tr>
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<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
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</tbody>
</table>

### Preloaded operating system
- Genuine Windows® Vista™ Home Premium
- Vista Premium logo

### Preloaded applications
- Lenovo® OneKey Recovery
- Driver and Application Installation
- Lenovo Rescue System
- Lenovo Healthcare Software
- Lenovo Update Utility

### Warranty Information
- 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):
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day Service (78Y1553)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6868

See footnotes for important warranty information.

US models announced September 10, 2009
US models withdrawn effective January 18, 2012

* © Lenovo (BL1-2) January 2012

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**Processor**
- Intel® Core™ 2 Duo processor T6500 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core® 2 Duo processor P7350 with dual-core.
- Intel HD Boost, 1066MHz system bus, and 3MB L2 cache

**Memory**
- 4GB std / 4GB max / PC3-8500 10666MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;
- Italics: standard memory in both sockets; no sockets available

**SATA DVD/RW**
- Some: DVD burner, dual-layer support, fixed, not removable, 12.7mm, slot-in
- Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, no HD-DVD playback, recordable, not removable, 12.7mm high, slot-in

**SATA disk**
- 500GB, 640GB, or 1TB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm

**Widescreen display**
- 21.5" (546.1mm) WUXGA (1920x1080) TFT color, VibrantView

**Camera**
- Camera on top of screen, 2.0-megapixel, fixed focus, with dual array microphone

**Controls**
- Touch-sensitive buttons for brightness, display on/off, and optical disk drive eject

**Graphics**
- Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), integrated graphics in GM45, uses main memory, DirectX® 10
- Some: ATI Mobility Radeon HD 4650, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD

**Chipset**
- Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gb/s, USB 2.0, PCI Express 1.1, PCI 2.3, "
- Some: Ethernet MAC

**Multicard reader**
- 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™)

**Ports**
- Rear: Four USB 2.0, ethernet (RJ-45), TV antenna connector on some models,
- Left: Two USB 2.0, IEEE 1394 Firewire 400 (4-pin connector), 1394a-2000 standard
- 150-watt (ATI graphics) AC adapter

**Mini PCI Express**
- Two Mini PCI Express slots
- Some: Mini PCIe adapter, Intel WiFi Link 5100, 1x2 (Shirley Peak)

**TV tuner**
- AverMedia® Hybrid tuner, support analog and digital signal, Mini PCIe adapter
- Some: AverMedia® TV tuner, support analog and digital signal, Mini PCIe adapter

**Bluetooh™**
- Bluetooth® 2.1 wireless + EDR, USB 2.0 interface via ICH9M, LED indicator
- Some: Bluetooth wireless, via IR

**Modern Ethernet**
- Gigabit ethernet on planar, Broadcom BCM5784

**Audio support**
- High Definition (HD) Audio, RealTek® ALC2722 codec / two speakers (3 watt) and subwoofer (8 watt), Dolby Home Theater Speaker System / mono microphone or dual array microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)

**Security**
- Power-on password, hard disk password, supervisor password

**Keyboard**
- Wireless RF 2.4 GHz keyboard with touch pad, 6-row, 84-key, touch-sensitive multimedia keys and shortcut keys

**Mouse**
- Blue tooth & Multimedia Keys
- Some: USB Optical Wheel Mouse
- Some: USB Optical Wheel Mouse

**Remote control**
- Vista MCE remote control (40-button), via IR
- Some: AverMedia® Home Theater Remote Control, remote receiver, and air mouse
- Some: AverMedia® Home Theater Remote Control, remote receiver, and air mouse

**Dimensions**
- (WxHxD): 20.47" x 18.22" x 1.06" to 2.36", 520mm x 463mm x 27 to 60mm

**Weight**
- 27.7 lb (12.6 kg)

**Stand**
- Tilt stand (15° back, 5° forward)

---

See footnotes for important warranty information.

US models announced September 10, 2009
US models withdrawn effective January 18, 2012

* © Lenovo (BL1-2) January 2012
### IdeaCentre™ A600 (3011) - Windows 7 - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor GHz</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera (mega-pixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Mini PCIe</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Microphone</th>
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<td>64 Oct 09</td>
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</tr>
</tbody>
</table>

- All-In-One design with 21.5" Full HD 16:9 widescreen, glossy display
- (Selected models) Integrated TV tuner
- (Selected models) 4-in-1 remote control acts as a motion game controller (requires game support), VOIP handset, Vista Media Center remote and air mouse
- Dolby® Home Theater™ premium audio system with two speakers and one subwoofer
- Lenovo Rescue System provides OneKey recovery without booting into Windows

#### Processor
- Intel® Pentium® Processor T4300 with dual-core, 800MHz system bus, and 1MB L2 cache or
- Intel Core™ 2 Duo processor T6600 with dual-core, 800MHz system bus, and 2MB L2 cache or
- Intel Core 2 Duo processor P7550 with dual-core, Intel HD Boost, 1066MHz system bus, and 3MB L2 cache

#### Memory
- 2GB, 3GB, or 4GB std / 4GB max
- Non-italics: standard memory in both sockets; no sockets available
- Italics: standard memory in both sockets; no sockets available

#### SATA DVD±RW
- Some: DVD burner, dual-layer support, fixed, not removable, 12.7mm, slot-in
- Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, no HD-DVD playback, DVD recordable, not removable, 12.7mm high, slot-in

#### Widescreen display
- 21.5" (646.1mm) WUXGA (1920x1080) TFT color, VibrantView (glossy), CCFL backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, frameless screen
- Some: camera on top of screen, 1.3-megapixel, fixed focus, with mono microphone
- Some: camera on top of screen, 2.0-megapixel, fixed focus, with dual array microphone

#### Graphics
- Some: Intel Graphics Media Accelerator 4500MHD (GMA 4500MHD), integrated graphics in GM45, uses main memory, DirectX® 10
- Some: ATI® Mobility Radeon™ HD 4650, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD

#### Chipset
- Mobile Intel GM45 Express Chipset (Graphics Memory Controller Hub), ICH9M I/O Controller Hub (SATA 3.0Gbps / USB 2.0, PCI Express 1.1, PCI 2.3, ethernet MAC)

#### Multicard reader
- 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card™)

#### Ports
- Rear: Four USB 2.0, ethernet (RJ-45), TV antenna connector on some models;
- Left: Two USB 2.0, IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)

#### Security
- Power-on password, hard disk password, supervisor password

#### Keyboard
- Some: Wireless RF 2.4 GHz keyboard with touch pad, 6-row, 84-key, touch-sensitive multimedia keys and shortcut keys
- Some: USB full-size keyboard with USB hub (two USB ports)

#### Mouse
- Some: Wireless RF 2.4 GHz Laser Wheel Mouse, 800/1600 dpi (user switchable)
- Some: USB Optical Wheel Mouse

#### Remote control
- Some: MCE remote control (40-button), via IR
- Some: 4-in-1 remote control, via bluetooth, acts as motion game controller (requires games support), VOIP headset, MCE remote control, and air mouse

#### Dimensions
- (WxHxD): 20.47" x 18.22" x 1.06" to 2.36"; 520mm x 463mm x 27 to 60mm

#### Weight
- 27.7 lb (12.6 kg)

#### 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):
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6966

See footnotes for important warranty information

© 2013 Lenovo
US model(s) announced October 23, 2009
US model(s) withdrawn effective April 2013

★ Intel Centrino® processor technology
★ Intel Centrino 2 processor technology

*(BL1-3) April 2013*
### IdeaCentre™ A700 (4024) - Windows 7 - withdrawn

**Type-model** | Processor | GHz | Max memory | Widescreen | Multi-touch | Graphics | SATA disk | SATA optical | PCIe Mini Card | TV tuner | Remote | AC adapter | Wall kit | Win7 preload | Avail date
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
4024-3AU | i3-350M, i3-370M, or i3-380M | 2.26 | 4GB | 23" FHD | Multi | Intel HD | 320GB | DVD+RW | 11b/g/n | Hybrid | Remote | 120W | Mount kit | Prem 64 Jun 10
4024-1AU | i3-350M, i3-370M, or i3-380M | 2.26 | 4GB | 23" FHD | Multi | Intel HD | 320GB | DVD+RW | 11b/g/n | Hybrid | Remote | 120W | Mount kit | Prem 64 Jun 10
4024-4AU | i3-370M | 2.40 | 4GB | 23" FHD | Multi | Intel HD | 320GB | DVD+RW | 11b/g/n | Hybrid | Remote | 150W | Mount kit | Prem 64 Aug 10
4024-4BU | i5-460M | 2.53 | 4GB | 23" FHD | Multi | Intel HD | 5470 | 500GB | DVD+RW | 11b/g/n | Hybrid | Remote | 150W | Mount kit | Prem 64 Aug 10
4024-4CU | i7-740QM | 1.73 | 4GB | 23" FHD | Multi | Intel HD | 5650 | 1TB | DVD+RW | 11b/g/n | Hybrid | Remote | 120W | Mount kit | Prem 64 Aug 10
4024-5FU | i3-380M | 2.53 | 4GB | 23" FHD | Multi | Intel HD | 5650 | 1TB | DVD+RW | 11b/g/n | Hybrid | Remote | 120W | Mount kit | Prem 64 Aug 10

*All-in-One design with 23" Full HD 16:9 widescreen, multi-touch support*
*Integrated TV tuner*
*Lenovo Rescue System provides OneKey recovery without booting into Windows*
*JBL stereo speakers*
*These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)*

**Processor**
- Intel® Core™ i3 processor i3-350M, i3-370M, or i3-380M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache or Intel Core i5 processor i5-460M or i5-480M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache or Intel Core i7 processor i7-720QM or i7-740QM with quad-core, DMI, integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology, 6MB cache

**Memory**
- 4GB std / 8GB 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**
- DVD burner, dual-layer support, fixed, not removable, slot-in

**Widescreen display**
- 23" (584.2mm) Full HD (WUXGA 1920x1080) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Camera Controls**
- Camera on top of screen, 0.3-megapixel, fixed focus, with microphone
- Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, Novo Vision, mode switch (PC / HDMI IN / AV IN), and display on/off

**Graphics**
- Some: Intel HD Graphics in processor, uses main memory;
- Some: ATI™ Mobility Radeon™ HD 5470. 512MB memory, DirectX® 11;
- Some: ATI Mobility Radeon HD 5650, 1GB memory, DirectX 11

**Chipset**
- Mobile Intel Hm55 Express Chipset
- 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC)

**Ports**
- Rear: Four USB 2.0, Ethernet RJ-45, TV tuner connector, S/PDIF out, HDMI in/out
- Side: Two USB 2.0, eSATA, microphone (3.5 mm), headphone (3.5 mm), IEEE 1394 FireWire 400 (4-pin connector)

**PCle Mini Card**
- Two PCI Express Mini Card slots
- 11b/g/n wireless (a), Mini PCIe adapter, Broadcom® chip or Atheros® chip
- Some: Hybrid tuner (ATSC / DVB-T), support analog and digital signal, PCie Mini Card
- Some: ATSC tuner, support analog and digital signal, PCie Mini Card

**Bluetooth**
- Bluetooth 2.1 wireless + EDR

**Modem**
- None

**Ethernet**
- Gigabit ethernet on planar, Intel 82577LC

**Audio support**
- High Definition (HD) Audio, RealTek™ ALC272 codec / Dolby® Home Theater™ certified, JBL® stereo speakers (5 watt x 2)

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

**Keyboard**
- Bluetooth full-size keyboard, 6-row, 104-key, black

**Mouse**
- Bluetooth Optical Wheel Mouse, black

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

**Dimensions**
- (WxHxD): 22.4" x 16.9" x 2.8"; 568mm x 430mm x 71mm

**Weight**
- Touch models: 32.6 lbs (14.8kg)

**Chassis**
- Black color; ABS plastic

**Stand**
- Adjustable stand (between 12° and 35°)

**Wall mount**
- Some: Wall mount kit, meets VESA 100mm mount standard

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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 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)
  - 24x7 4, toll-free support for warranty issues during the warranty period via 877-453-6686

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See footnotes for important warranty information

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US model(s) announced June 3 or August 25, 2010 or March 9, 2011
US model(s) withdrawn effective April 2013

(CTLN1-1) April 2013
**IdeaCentre™ A700 (4024) - Windows 7 (web only models) - withdrawn**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Max turbo</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 #02.11</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>Keyboard/</th>
<th>Mouse</th>
<th>Win7 preload</th>
<th>Avail date</th>
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<td>4024-3BU</td>
<td>Intel® Core™ i3 processor i3-350M or i3-380M with dual-core,</td>
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<td>4GB</td>
<td>23° FHD</td>
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</table>

- **All-In-One design with 23° Full HD 16:9 widescreen, multi-touch support**
- **Integrated TV tuner**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **(Selected models) 4-in-1 remote control acts as a motion game controller (requires XIP support), VIP handset, Media Center remote control, and air mouse**
- **JBL® stereo speakers**

**Processor**
- Intel® Core™ i3 processor i3-350M or i3-380M with dual-core, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache or Intel Core® i5 processor i5-430M or i5-480M with dual-core, DMI, integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache or Intel Core® i7 processor i7-720QM or i7-740QM with quad-core, DMI, integrated DDR3 memory controller (up to 1333MHz), Intel Turbo Boost, Hyper-Threading technology, 6MB cache

**Memory**
- 8GB 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**
- Some: DVD burner, dual-layer support, fixed, not removable, slot-in
- Some: Blu-ray disc reader (no Blu-ray media burning), BD-ROM, no HD-DVD playback, DVD recordable, not removable, 12.7mm high, slot-in

**SATA disk**
- 500GB, 640GB, or 1TB, SATA 3.0Gbps/s, 7200 rpm, 3.5" wide

**Widescreen display**
- 23" (584.2mm) Full HD (WUXGA 1920x1080) TFT color, VibrantView (glossy), LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Camera**
- Camera on top of screen, 0.3-megapixel, fixed focus, with microphone
- Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, Novo Vision, mode switch (PC / HDMI IN / AV IN), and display on/off

**Graphics**
- Intel® HD Graphics in processor, uses main memory, Some: ATI™ Mobility Radeon™ HD 5470, 512MB memory, DirectX® 11; Some: ATI Mobility Radeon HD 5650, 1GB memory, DirectX 11

**Chipset**
- Mobile Intel HM55 Express Chipset
- 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, SDHC)

**Ports**
- Rear: Four USB 2.0, ethernet (RJ-45), TV tuner connector, S/PDIF out, HDMI in/out
- Side: Two USB 2.0, eSATA, microphone (3.5 mm), headphone (3.5 mm), IEEE 1394 FireWire 400 (4-pin connector)

**PCIe Mini Card**
- Two PCIe Express Mini Card slots
- 11b/g/n wireless®, Mini PCIe adapter, Broadcom® chip or Atheros chip
- Some: Hybrid tuner (ATSC / DVB-T), support analog and digital signal, PCIe Mini Card
- Some: ATSC tuner, support analog and digital signal, PCIe Mini Card

**Bluetooth™**
- Bluetooth 2.1 wireless + EDR

**Audio support**
- High Definition (HD) Audio, RealTek® ALC272 codec /
- Dolby® Home Theater™ certified, JBL stereo speakers (5 watt x 2)

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

**Keyboard**
- Bluetooth full-size keyboard, 6-row, 104-key, black

**Mouse**
- Bluetooth Optical Wheel Mouse, black

**Remote control**
- Some: MCE remote control, via IR
- Some: 4-in-1 remote control, via Bluetooth, acts as motion game controller (requires game support), VOIP headset, MCE remote control, and air mouse

**Dimensions**
- (WxHxD): 22.4" x 16.9" x 2.8"; 568mm x 430mm x 71mm
- Weight: Touch models: 32.6 lb (14.8kg)
- Chassis: Black color; ABS plastic
- Stand: Adjustable stand (between 12° and 35°)
- Wall mount: Wall mount kit, meets VESA 100mm mount standard

See footnotes for important warranty information

© Lenovo US model(s) announced April 07, 2009, October 22, 2010, or May 18 or June 22, 2011
US model(s) withdrawn April 2013

**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
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

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

Preloaded applications:
- Lenovo Rescue System
- Driver and Application Installation
- CyberLink YouCam
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- Cyberlink Power2Go (DVD±RW, BD player)
- Corel® WinDVD™ (BD player)
- Lenovo IdeaTouch (Touch models) - PowerCinema
- Lenovo VeriTouch
- AutoCollage Touch
- Windows Live Essential
- Microsoft® Office 2007 Trial (60-day)
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<td>2.93</td>
<td>4G</td>
<td>23&quot; WUXGA</td>
<td>0.3M</td>
<td>GT 240M</td>
<td>1G</td>
<td>500GB</td>
<td>DVD±RW</td>
<td>11b/g/n</td>
<td>TV</td>
<td>IR remote</td>
<td>BT/ BT</td>
<td>Prem 64</td>
</tr>
<tr>
<td>0887-3AU Q8400S</td>
<td>2.66</td>
<td>4G</td>
<td>23&quot; WUXGA</td>
<td>0.3M</td>
<td>GTS 250M</td>
<td>1G</td>
<td>1TB</td>
<td>DVD±RW</td>
<td>11b/g/n</td>
<td>TV</td>
<td>4-in-1</td>
<td>BT/ BT</td>
<td>Prem 64</td>
</tr>
</tbody>
</table>

- All-in-One design with 23" Full HD 16:9 widescreen, glossy display
- (Selected models) Integrated TV tuner
- (Selected models) 4-in-1 remote control acts as a motion game controller (requires game support), VOIP handset, Media Center remote and air mouse
- JBL® stereo speakers

Processor: Intel® Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache or Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or Intel Core 2 Quad Processor Q8400S with quad-core, 1333MHz system bus, and 4MB L2 cache

Implementation: Processor in LGA775 socket

Memory: 2GB or 4GB std / 4GB max
Non-italics: standard memory in one socket; no sockets available

SATA DVD±RW
SATA Blu-ray®
SATA disk

Widescreen display

Camera
Controls

Graphics

Chipset
Multicard reader

Ports

Modern

Audio support

Security

Keyboard Mouse
Remote control

Power supply

Dimensions

Weight

Chassis

Stand

Preloaded operating system:
- Genuine Windows® 7 Home Premium

Preloaded applications (only some listed):
- Lenovo® Rescue System
- Media Show
- McAfee® VirusScan® Plus
- Cyberlink Power2Go (DVD±RW, BD player)
- Corel® WinDVD® (BD player)

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):
- 3-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1553)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6966

Available at lenovo.com

RoHS-compliant

See footnotes for important warranty information

US models announced December 2, 2009
US models withdrawn effective January, 2011
### IdeaCentre™ B500 (0887) - Windows 7 - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera</th>
<th>Graphics</th>
<th>SATA</th>
<th>Mini PCiE</th>
<th>Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0887-1BU E5400</td>
<td>Intel® Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache</td>
<td>4GB std / 4GB max</td>
<td>23&quot; WUXGA</td>
<td>0.3M</td>
<td>G210M 512M</td>
<td>500GB® DVD±RW</td>
<td>11b/g/n®</td>
<td>PS2/USB</td>
<td>Prem 64 Dec 09</td>
</tr>
<tr>
<td>0887-1CU E5400</td>
<td>Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache</td>
<td>4GB</td>
<td>23&quot; WUXGA</td>
<td>0.3M</td>
<td>GT 240M 1G</td>
<td>640GB® DVD±RW</td>
<td>11b/g/n</td>
<td>TV IR remote</td>
<td>BT/BT Prem 64 Dec 09</td>
</tr>
<tr>
<td>0887-3BU Q8400S</td>
<td>Intel Core™ 2 Quad Processor Q8400S with quad-core, 1333MHz system bus, and 4MB L2 cache</td>
<td>4GB</td>
<td>23&quot; WUXGA</td>
<td>0.3M</td>
<td>GTS 250M 1G</td>
<td>1TB</td>
<td>BD player</td>
<td>BT/BT</td>
<td>Prem 64 Dec 09</td>
</tr>
</tbody>
</table>

- All-in-One design with 23" Full HD 16:9 widescreen, glossy display
- (Selected models) Integrated TV tuner
- (Selected models) 4-in-1 remote control acts as a motion game controller (requires game support), VOIP handset, Media Center remote and air mouse
- JBL* stereo speakers

#### Processor
- Intel® Pentium® Processor E5400 with dual-core, 800MHz system bus, and 2MB L2 cache or
- Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache or
- Intel Core™ 2 Quad Processor Q8400S with quad-core, 1333MHz system bus, and 4MB L2 cache

#### Implementation
- Processor in LGA775 socket

#### Memory
- 4GB std / 4GB max
- Non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italicics:* standard memory in both sockets; no sockets available

#### SATA DVD±RW
- Some: DVD burner, dual-layer support, fixed, not removable, 12.7mm, tray-in
- Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, no HD-DVD playback, DVD recordable, not removable, 12.7mm high, tray-in

#### SATA Blu-ray™
- SATA 3.0Gb/s, 3.5" wide, 7200 rpm

#### SATA disk
- Some: DVD±RW
- Some: Blu-ray Disc reader (no Blu-ray media burning), BD-ROM, no HD-DVD playback, DVD recordable, not removable, 12.7mm high, tray-in

#### Widescreen display
- 23.0" (684.2mm) WUXGA (1920x1080) TFT color, VibrantView (glossy), CCFL backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio

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

#### Controls
- Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off

#### Graphics
- Some: NVIDIA® GeForce G210M, PCI Express® x16, 12MB memory
- Some: NVIDIA GeForce GT 240M, PCI Express x16, 1GB memory
- Some: NVIDIA GeForce GTS 250M, PCI Express x16, 1GB memory

#### Chipset
- Intel® G41 Express Chipset; I/O Controller Hub 7 (ICH7)

#### Multicard reader
- Secure Digital Card, Secure Digital Elite Pro Card, xD-Picture Card

#### Ports
- Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), TV IN and AV IN on some models;
- Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm)

#### Mini PCI Express
- Two Mini PCI Express slots
- 11b/g/n wireless®, Mini PCI adapter, Broadcom® BCM43225
- Bluetooth® wireless 2.1 + EDR, USB 2.0 interface via ICH7

#### Modern
- Ethernet: 10/100 ethernet on planar, RealTek® RTL8103EL
- Audio support: High Definition (HD) Audio, RealTek ALC662 codec / two JBL* stereo speakers (5 watt)

#### Security
- Power-on password, supervisor password

#### Keyboard
- Some: Bluetooth full-size keyboard, 6-row, 104-key, black
- Some: Full-size keyboard (PS/2 connector), Fr keys, black

#### Mouse
- Some: Bluetooth Optical Wheel Mouse, black
- Some: Optical Wheel Mouse (USB connector), 1000 dpi, black

#### Remote control
- Some: MCE remote control (40-button), via IR
- Some: 4-in-1 remote control, via Bluetooth, acts as motion game controller (requires game support), VOIP headset, MCE remote control, and air mouse

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

#### Dimensions
- (WxHxD): 22.05" x 17.20" x 3.44" to 5.22"; 560mm x 437mm x 87.5 to 132.5mm

#### Weight
- 22.0 lb (10 kg)

#### Chassis
- Front: black color; rear: silver gray color; ABS plastics

#### Stand
- Adjustable stand (between 8° and 35°)

---

**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):
- 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 December 2, 2009
US models withdrawn effective January, 2011

(MT1-2) January 2011
### IdeaCentre™ B510 (7712) - Windows 7 (web only models) - withdrawn

<table>
<thead>
<tr>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>SATA optical</th>
<th>Mini PCIe</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Key-board/</th>
<th>Win7</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Core™ i3 processor i3-550 with dual-core, 1333MHz dual-channel DDR3 memory controller, and 4MB cache</td>
<td>2GB</td>
<td>ATI™ Radeon HD 5450, PCI Express x16, 512MB memory;</td>
<td>DVD±R±RW</td>
<td>BT/BT</td>
<td>Prem 64 Sep 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intel Core i5 processor i5-650 with dual-core, 1333MHz dual-channel DDR3 memory controller, and 4MB cache</td>
<td>3GB</td>
<td>ATI™ Radeon HD 5850, PCI Express x16, 1GB memory;</td>
<td>DVD±R±RW</td>
<td>BT/BT</td>
<td>Prem 64 Sep 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intel Core i7 processor i7-870S with quad-core, 1333MHz dual-channel DDR3 memory controller, and 8MB cache</td>
<td>4GB</td>
<td>ATI™ Mobility Radeon HD 5850, PCI Express x16, 1GB memory</td>
<td>DVD±R±RW</td>
<td>BT/BT</td>
<td>Prem 64 Sep 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- All-In-One design with 23" Full HD 16:9 widescreen, glossy display
- (Selected models) Integrated TV tuner
- JBL® stereo speakers
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

---

**Processor**

- Intel® Core™ i3 processor i3-550 with dual-core, 1333MHz dual-channel DDR3 memory controller, and 4MB cache.
- Intel Core i5 processor i5-650 with dual-core, 1333MHz dual-channel DDR3 memory controller, and 4MB cache.
- Intel Core i7 processor i7-870S with quad-core, 1333MHz dual-channel DDR3 memory controller, and 8MB cache.

**Memory**

- 4GB, 6GB, or 8GB std / 16GB max / DDR3, non-parity, dual-channel capable, four 204-pin SO-DIMM sockets.
- 2GB, 3GB, or 4GB std / 8GB max / DDR3, non-parity, dual-channel capable, four 204-pin SO-DIMM sockets.

**Graphics**

- ATI™ Radeon HD 5450, PCI Express x16, 512MB memory.
- ATI™ Radeon HD 5850, PCI Express x16, 1GB memory.
- ATI Mobility Radeon HD 5850, PCI Express x16, 1GB memory.

**SATA optical**

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

**SATA disk**

- 500GB, 1TB, or 2TB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm.

**Widescreen display**

- 23.0" Full HD (1920x1080 WUXGA) TFT color, VibrantView (glossy), CCFL backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio.

**Camera**

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

**Controls**

- Touch-sensitive buttons for LED light on/off, volume up/down, brightness up/down, display on/off.

**Chipset**

- Intel H55 Express Chipset.

**Multicard reader**

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

**Ports**

- Rear: Four USB 2.0, ethernet (RJ-45), keyboard (PS/2), eSATA, Side: Two USB 2.0, microphone input jack (3.5 mm), headphone jack (3.5 mm).

**PCIe Mini Card**

- Two PCIe Mini Card slots.

**11b/g/n**

- 11b/g/n wireless.

**TV tuner**

- Hybrid tuner, support analog and digital signal, PCIe Mini Card adapter.

**Bluetooh**

- Bluetooth 2.1 wireless + EDR.

**Modern**

- None.

**Ethernet**

- Gigabit ethernet on planar, Intel 82578DC.

**Audio support**

- High Definition (HD) Audio, Realtek® ALC662 codec / two JBL® stereo speakers (5 watt).

**Security**

- Power-on password, supervisor password.

**Keyboard/Mouse**

- Bluetooth full-size keyboard, 6-row, black.
- Bluetooth Optical Wheel Mouse, black.

**Remote control**

- MCE remote control (4-button), via IR.

**Power supply**

- 200 watts, universal, auto-sensing.

---

**Dimensions**

- (WxHxD): 22.05" x 17.20" x 3.76" to 5.53"; 560mm x 437mm x 95.5 to 140.5mm.

**Weight**

- 22.0 lb (10 kg).

---

**See footnotes for important warranty information**

US model(s) announced September 8, 2010 or February 16, 2011

US model(s) withdrawn effective April 2013

---

Preloaded operating system:

- Genuine Windows® 7 Home Premium 64

Preloaded applications (only some listed):

- Lenovo Rescue System
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- Cyberlink Power2Go (DVD±RW)
- Windows Live Essential
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate

RoHS-compliant

Limited Warranty:

- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts23), 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 (781552)
- 3-year Lenovo In-Home Repair 9x5 Next Business Day (781553)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

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(11N1-1) April 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>L2 cache</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Color</th>
<th>Blue-tooth</th>
<th>VESA mount bracket</th>
<th>Preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3014-1DU</td>
<td>Atom 230</td>
<td>1.60</td>
<td>512KB</td>
<td>1GB</td>
<td>None</td>
<td>160GB</td>
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<td>Black</td>
<td>XP Home</td>
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<tr>
<td>3014-1FU</td>
<td>Atom 230</td>
<td>1.60</td>
<td>512KB</td>
<td>1GB</td>
<td>None</td>
<td>160GB</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Black</td>
<td>XP Home</td>
</tr>
</tbody>
</table>

- **IdeaCentre Q series** provide ultimate multimedia experience for home entertainment
- **An Ultra-slim and fashionable desktop PC (only 0.5L)**
- *(Select model)* Attaches to the back of selected VESA-compatible monitor for more space saving
- **Super power saving, saving up to 90% power compared to traditional desktop**
- **Ultra quiet with low power platform**
- **Basic one key system recovery function**

**Processor**
- Intel® Atom™ processor 230 with single-core, Hyper-Threading Technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache

**Memory**
- 1GB std, 2GB max. PC2-5300 667MHz DDR2, non-parity, single-channel capable, one 200-pin SO-DIMM socket; standard memory in socket; no sockets available

**Graphics**
- SIS® Mirage™ 3+ Graphics Engine, integrated graphics in SiS672, uses main memory, one VGA DB-15 connector

**SATA disk**
- 160GB, SATA 3.0Gb/s, 2.5” wide, 5400 rpm

**SATA controller**
- Serial ATA, SATA 3.0Gb/s, integrated in SiS968

**Media reader**
- None

**Chipset**
- SiS672 Northbridge / SiS968 Southbridge (SATA 3.0Gb/s, ethernet MAC, USB)

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

**Rear ports**
- Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15), line-out (stereo, 3.5mm)

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

**External speakers**
- None

**Internal speaker**
- None

**Ethernet**
- Gigabit ethernet on planar, Realtek® RLT8111DL

**Wireless**
- None

**Modem**
- None

**Security chip**
- None

**11b/g/n**
- None

**TV tuner**
- None

**Remote control**
- None

**Camera**
- None

**Keyboard**
- None

**Mouse**
- None

**Stand**
- Detachable stand (matching color with chassis)

**Mount bracket**
- Some: Mount bracket (black), meets VESA 75mm and 100mm mount standard

See footnotes for important warranty information

US models announced December 17, 2009
US models withdrawn effective October, 2010

© Lenovo (NR1-3) October 2010
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>L2 cache</th>
<th>Memory²</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Color</th>
<th>Bluetooth</th>
<th>Preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3014-1CU</td>
<td>Intel® Atom™ processor 230 with single-core, Hyper-Threading Technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache</td>
<td>16GB</td>
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<td>None</td>
<td>160GB</td>
<td>None</td>
<td>Mirage 3+</td>
<td>None</td>
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<td>None</td>
<td>XP Home Sep 09</td>
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<tr>
<td>3014-1BU</td>
<td>Intel® Atom™ processor 230 with single-core, Hyper-Threading Technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache</td>
<td>16GB</td>
<td>None</td>
<td>None</td>
<td>160GB</td>
<td>None</td>
<td>Mirage 3+</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Black</td>
<td>None</td>
<td>XP Home Sep 09</td>
</tr>
</tbody>
</table>

- IdeaCentre Q series provide ultimate multimedia experience for home entertainment
- An Ultra-slim and fashionable desktop PC (only 0.5L)
- Super power saving, saving up to 90% power compared to traditional desktop
- Ultra quiet with low power platform
- Basic one key system recovery function

Processor: Intel® Atom™ processor 230 with single-core, Hyper-Threading Technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache

Memory: 1GB std, 2GB max, PC2-5300 667MHz DDR2, non-parity, single-channel capable, one 200-pin SO-DIMM socket; standard memory in socket; no sockets available

Graphics: SIS® Mirage™ 3+ Graphics Engine, integrated graphics in SiS672, uses main memory, one VGA DB-15 connector

SATA disk: 160GB, Sata 3.0Gb/s, 2.5" wide, 5400 rpm

SATA controller: Serial ATA, Sata 3.0Gb/s, integrated in SiS968

Media reader: None

Chipset: SiS672 Northbridge / SiS968 Southbridge (SATA 3.0Gb/s, ethernet MAC, USB)

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

Rear ports: Four USB 2.0, ethernet (RJ-45), monitor (VGA DB-15), line-out (stereo, 3.5mm)

Audio: High Definition (HD) audio, RealTek® ALC662 codec

External speakers: None

Internal speaker: None

Ethernet: Gigabit ethernet on planar, Realtek® RLT8111DL

Wireless: None

Modem: None

Security chip: None

11b/g/n: None

TV tuner: None

Remote control: None

Camera: None

Keyboard: None

Mouse: None

Stand: Detachable stand (matching color with chassis)

Mount bracket: None

Preloaded operating system: Genuine Windows® XP Home Edition

Preloaded applications: (only some listed)
- Recovery wizard
- Driver and Application Installation
- Trend Micro™ PC-cillin™ Internet Security 2008

65-watt AC adapter

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, often next business day response time)
- Service upgrade options (in eligible locations): 3-year Lenovo Onsite Repair 9x5 often Next Business Day (78Y1551)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

US models announced September 15, 2009
US models withdrawn effective October, 2010

© Lenovo (NR1-1) October 2010
IdeaCentre™ Q110 (3016) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>L2 cache</th>
<th>Memory</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Color</th>
<th>Blue-tooth</th>
<th>Vista preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>3016-1BU</td>
<td>Atom 230</td>
<td>1.60</td>
<td>512KB</td>
<td>2GB</td>
<td>None</td>
<td>250GB</td>
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<td>None</td>
<td>Black</td>
<td>None</td>
<td>None</td>
<td>Prem 32</td>
<td>Sep 09</td>
</tr>
</tbody>
</table>

- IdeaCentre Q series provide ultimate multimedia experience for home entertainment
- An Ultra-slim and fashionable desktop PC (only 0.5L)
- Attaches to the back of selected VESA-compatible monitor for more space saving
- Super powersaving, saving up to 90% power compared to traditional desktop
- Ultra quiet with low power platform
- Support 1080p full HD multimedia playback and 3D gaming
- Basic one key system recovery function

Processor: Intel® Atom™ processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache

Memory: 2GB std, 3GB max, PC2-5300 667MHz DDR2, non-parity, dual-channel capable, one 200-pin SO-DIMM socket; *italics:* standard memory 1GB soldered to systemboard, 1GB in socket; no sockets available

Graphics: NVIDIA® ION™ graphics processor, DirectX 10, PureVideo® HD technology, Full HD decode (1080i/p) uses main memory, one HDMI connector, HDCP-compliant

SATA disk: 250GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

SATA controller: Serial ATA, SATA 3.0Gb/s, integrated in ION graphics processor

Media reader: None

Chipset: NVIDIA® ION chipset (MCP7A-ION), integrates all features of a modern chipset's North and South bridges into a single chip package

Front ports: Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm), Four USB 2.0, ethernet (RJ-45), monitor (HDMI), line-out (stereo, 3.5mm)

Audio: High Definition (HD) audio, RealTek® ALC662 codec

External speakers: None

Internal speaker: None

Ethernet: Giga bit ethernet on planar, Realtek® RLT8111DL

Wireless: None

Modem: None

Security chip: None

11b/g/n: None

TV tuner: None

Remote control: None

Camera: None

Keyboard: None

Mouse: None

Stand: Detachable stand (matching color with chassis)

Mount Bracket: Mount bracket (black), meets the VESA 75mm and 100mm mount standard

See footnotes for important warranty information

US model announced September 15, 2009

US models withdrawn effective October, 2010

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Personal Systems Reference (PSREF)
Lenovo IdeaCentre Q150

Lenovo IdeaCentre Q150 (NVIDIA ION models)

Lenovo IdeaCentre Q150

Lenovo IdeaCentre Q150

Lenovo IdeaCentre Q150 with optional Lenovo Mini Wireless Keyboard N5901 (57Y6336)

Lenovo IdeaCentre Q150 with optional mini USB keyboard and mouse
### IdeaCentre™ Q150 (4081) - GMA - withdrawn

<table>
<thead>
<tr>
<th>Processor</th>
<th>Memory</th>
<th>SATA disk</th>
<th>Optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Color</th>
<th>Bluetooth</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Atom™ processor D410</td>
<td>1GB std, 2GB max⁵</td>
<td>160GB²</td>
<td>None</td>
<td>Intel Graphics Media Accelerator 3150 (GMA 3150), in processor</td>
<td>None</td>
<td>None</td>
<td>11b/g/n²⁸</td>
<td>Black</td>
<td>None</td>
<td>None</td>
<td>USB/USB XP Home</td>
<td>Jul 10</td>
</tr>
</tbody>
</table>

* • IdeaCentre Q series provide ultimate multimedia experience for home entertainment
  • An Ultra-slim and fashionable desktop PC (only 0.5L)
  • Attaches to the back of selected VESA-compatible monitor for more space saving
  • Super powersaving, saving up to 90% power compared to traditional desktop
  • Ultra quiet with low power platform
  • Lenovo® Rescue System provides OneKey recovery without booting into Windows

**Processor**
- Intel® Atom™ processor D410 with single-core, DMI (Direct Media Interface), integrated DDR2 memory controller (up to 800MHz), integrated graphics controller, Hyper-Threading technology, and 512KB L2 cache

**Memory**
- 1GB std, 2GB max⁵, PC2-6400 800MHz DDR2, non-parity, one 200-pin SO-DIMM socket

**Graphics**
- Intel Graphics Media Accelerator 3150 (GMA 3150), in processor, uses main memory, one analog VGA DB-15 connector

**SATA disk**
- 160GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

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

**Media reader**
- None

**Chipset**
- Intel NM10 Express Chipset

**Front ports**
- Two USB 2.0, S/PDIF-out, line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)

**Rear ports**
- Two USB 2.0, ethernet (RJ-45), monitor (VGA DB-15) line-in, line-out

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

**External speakers**
- None

**Internal speaker**
- None

**Ethernet**
- 10/100M ethernet on planar, Intel 82552V

**Modem**
- None

**Security chip**
- None

**11b/g/n wireless⁸**
- 11br/g/n wireless⁸, PCIe Mini Card, RealTek® RTL8191SU

**TV tuner**
- None

**Remote control**
- None

**Camera**
- None

**Keyboard**
- Mini Keyboard (USB connector), black

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

**Stand**
- Detachable stand (matching color with chassis)

**Mount bracket**
- Mount bracket (black), meets the VESA 75mm and 100mm mount standard

**Tiny Desktop (0.5L)**
- Black color
- 6.05" W X 6.8" D X 0.85" H
- 153.6mm W X 172.7mm D X 21.7mm H
- 1.76 lb (0.8 kg) including stand
- No bays, no slots

**Preloaded operating system**
- Genuine Windows® XP Home Edition

**Preloaded applications**
- Lenovo Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus 2009 (60 days of virus definitions)

**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 often Next Business Day (78Y1551)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

---

See footnotes for important warranty information
US model announced July 28, 2010
US models withdrawn effective October, 2010
© Lenovo (NR2-1) October 2010
### IdeaCentre Q150 (4081) - GMA (web models) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>L2 cache</th>
<th>Memory</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Color</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4081-5AU</td>
<td>Atom D410</td>
<td>1.66</td>
<td>1GBx1</td>
<td>None</td>
<td>GMA 3150</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>11b/g/n</td>
<td>Black</td>
<td>None</td>
<td>USB/USB</td>
<td>XP Home</td>
</tr>
</tbody>
</table>

- **IdeaCentre Q series provide ultimate multimedia experience for home entertainment**
- **An Ultra-slim and fashionable desktop PC (only 0.5L)**
- **Attaches to the back of selected VESA-compatible monitor for more space saving**
- **Super power saving, saving up to 90% power compared to traditional desktop**
- **Ultra quiet with low power platform**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**

- **Processor**
  - Intel® Atom™ processor D410 with single-core, DMI (Direct Media Interface), integrated DDR2 memory controller (up to 800MHz), integrated graphics controller, Hyper-Threading technology, and 512KB L2 cache

- **Memory**
  - 1GB std, 2GB max, PC2-6400 800MHz DDR2, non-parity, one 200-pin SO-DIMM socket

- **Graphics**
  - Intel Graphics Media Accelerator 3150 (GMA 3150), in processor, uses main memory, one analog VGA DB-15 connector

- **SATA disk**
  - 160GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

- **Preloaded operating system**
  - Genuine Windows® XP Home Edition

- **Preloaded applications**
  - Lenovo Rescue System
  - Driver and Application Installation
  - McAfee® VirusScan® Plus 2009 (60 days of virus definitions)

- **65-watt AC adapter**
- **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, often next business day response time)
  - Service upgrade options (in eligible locations):
    - 3-year Lenovo Onsite Repair 9x5 often Next Business Day (78Y1551)
    - 24x7® toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information
US model announced July 28, 2010
US models withdrawn effective October, 2010
### IdeaCentre™ Q150 (4081) - GMA (Windows 7) - web only - withdrawn

<table>
<thead>
<tr>
<th>Processor Type</th>
<th>Memory</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Color</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Atom™ processor D410</td>
<td>1GB std, 2GB max*</td>
<td>Intel Graphics Media Accelerator 3150 (GMA 3150)</td>
<td>250GB, SATA 3.0Gb/s, 2.5&quot; wide, 5400 rpm</td>
<td>Serial ATA, SATA 3.0Gb/s, integrated in NM10 chipset</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>11b/g/n*</td>
<td>None</td>
<td>2.4GHz</td>
<td>Prem 32</td>
</tr>
</tbody>
</table>

**Tiny Desktop (0.5L)**
- Black color
- 6.05" W X 6.8" D X 0.85" H
- 153.6mm W X 172.7mm D X 21.7mm H
- 1.76 lb (0.8 kg) including stand
- No bays, no slots

**Preloaded operating system**
- Genuine Windows® 7 Home Premium 32

**Preloaded applications**
- Lenovo Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)

**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 (78Y1551)
- 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 16, 2011

US model(s) withdrawn effective April 2013

© Lenovo (NR2-5) April 2013

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- IdeaCentre Q series provide ultimate multimedia experience for home entertainment
- An Ultra-slim and fashionable desktop PC (only 0.5L)
-Attaches to the back of selected VESA-compatible monitor for more space saving
-Super power saving, saving up to 90% power compared to traditional desktop
-Ultra quiet with low power platform

Lenovo® Rescue System provides OneKey recovery without booting into Windows
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>SATA optical</th>
<th>SATA disk</th>
<th>Monitor</th>
<th>Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4081-4AU</td>
<td>Atom D510</td>
<td>1.66</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>250GB</td>
<td>None</td>
<td>None</td>
<td>2.4GHz</td>
</tr>
<tr>
<td>4081-2GU</td>
<td>Atom D525</td>
<td>1.80</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>USB</td>
</tr>
<tr>
<td>4081-2HU</td>
<td>Atom D525</td>
<td>1.80</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Black</td>
</tr>
</tbody>
</table>

- **IdeaCentre Q series** provide ultimate multimedia experience for home entertainment
- An Ultra-slim and fashionable desktop PC (only 0.5L)
- Attaches to the back of selected VESA-compatible monitor for more space saving
- Super power saving, saving up to 90% power compared to traditional desktop
- Ultra quiet with low power platform
- Support 1080p full HD multimedia playback and 3D gaming
- **Lenovo** Rescue System provides OneKey recovery without booting into Windows

---

**Processor**

- Intel® Atom™ processor D510 with dual-core, integrated DDR2 memory controller (up to 800MHz), integrated graphic controller, Hyper-Threading technology, and 1MB L2 cache
- Intel Atom Processor D525 with dual-core, integrated DDR2/DDR3 memory controller (up to 800MHz), integrated graphic controller, Hyper-Threading Technology, and 1MB L2 cache

**Memory**

- 2GB std, 2GB max
- Some: PC2-6400 800MHz DDR2, non-parity, one 200-pin SO-DIMM socket
- Some: PC3-6400 800MHz DDR3, non-parity, one 204-pin SO-DIMM socket

**Graphics**

- NVIDIA® ION™ graphics processor, DirectX® 10, 512MB memory
- PureVideo® HD technology, Full HD decode (1080i/p), one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant

**SATA disk**

- 250GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

**Chipset**

- Intel NM10 Express Chipset

**Front ports**

- Two USB 2.0, S/PDIF-out

**Rear ports**

- Two USB 2.0, ethernet (RU-45), monitor (VGA DB-15, HDMI), line-in (stereo, 3.5mm), line-out (stereo, 3.5mm)

**Audio**

- High Definition (HD) audio, RealTek® ALC662 codec

**External speakers**

- None

**Internal speaker**

- None

**Ethernet**

- 10/100M ethernet on planar, Intel 82552V

**Modem**

- None

**Security chip**

- None

**11b/g/n wireless**

- 11b/g/n wireless, PCIe Mini Card, RealTek® RTL8191SU

**TV tuner**

- None

**Remote control**

- None

**Camera**

- None

**Keyboard**

- Some: Mini Keyboard (USB connector), black
- Some: 2.4GHz Wireless Mini Keyboard N5901, palm-sized dimensions, keyboard and mouse (with track ball) combo, via micro-size USB receiver

**Mouse**

- Some: Mini Optical Wheel Mouse (USB connector), black
- Stand: Detachable stand (matching color with chassis)
- Mount bracket: Mount bracket (black), meets the VESA 75mm and 100mm mount standard

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See footnotes for important warranty information

US model(s) announced July 28, 2010 or April 7, 2011

US model(s) withdrawn effective April 2013

© Lenovo

(NR2-2) April 2013
**IdeaCentre Q150 (4081) - NVIDIA ION (Win 7) - web only - withdrawn**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Color</th>
<th>Bluetooth</th>
<th>Keyboard/Mouse</th>
<th>Win7 preload</th>
<th>Avail date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4081-6AU</td>
<td>Atom D510 1.66 GHz</td>
<td>1MB 2GBx1</td>
<td>500GB²</td>
<td>None</td>
<td>NVIDIA ION</td>
<td>None</td>
<td>11b/g/n²</td>
<td>Black</td>
<td>None</td>
<td>USB/USB</td>
<td>Prem 32</td>
<td>Jul 10</td>
<td></td>
</tr>
<tr>
<td>4081-1EU</td>
<td>Atom D510 1.66 GHz</td>
<td>1MB 2GBx1</td>
<td>500GB</td>
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<td>NVIDIA ION</td>
<td>None</td>
<td>11b/g/n</td>
<td>Black</td>
<td>None</td>
<td>2.4GHz</td>
<td>Prem 64</td>
<td>Feb 11</td>
<td></td>
</tr>
<tr>
<td>4081-2MU</td>
<td>Atom D525 1.80 GHz</td>
<td>1MB 2GBx1</td>
<td>500GB</td>
<td>None</td>
<td>NVIDIA ION</td>
<td>None</td>
<td>11b/g/n</td>
<td>Black</td>
<td>None</td>
<td>2.4GHz</td>
<td>Prem 64</td>
<td>Nov 11</td>
<td></td>
</tr>
</tbody>
</table>

- IdeaCentre Q series provide ultimate multimedia experience for home entertainment
- An Ultra-slim and fashionable desktop PC (only 0.5L)
- Attach to the back of selected VESA-compatible monitor for more space saving
- Super power saving, saving up to 90% power compared to traditional desktop
- Ultra quiet with low power platform
- Support 1080p full HD multimedia playback and 3D gaming
- Lenovo® Rescue System provides OneKey recovery without booting into Windows

**Processor**

Intel® Atom™ processor D510 with dual-core, integrated DDR2 memory controller (up to 800MHz), Hyper-Threading technology, and 1MB L2 cache

**Memory**

2GB std, 2GB max², PC2-6400 800MHz DDR2, non-parity, one 200-pin SO-DIMM socket

**Graphics**

NVIDIA® ION™ graphics processor, DirectX® 10. 512MB memory

**SATA disk**

500GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

**SATA controller**

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

**Chipset**

Intel NM10 Express Chipset

**Front ports**

Two USB 2.0, S/PDIF-out

**Audio**

High Definition (HD) audio, RealTek® ALC662 codec

**External speakers**

None

**Ethernet**

10/100M ethernet on planar, Intel 82552V

**Modem**

None

**Security chip**

None

**11b/g/n²**

11b/g/n wireless², PCIe Mini Card, RealTek® RTL8191SU

**TV tuner**

None

**Remote control**

None

**Camera**

None

**Keyboard**

Some: Mini Keyboard (USB connector), black

**Mouse**

Some: 2.4GHz Wireless Mini Keyboard N5901, palm-sized dimensions, keyboard and mouse (with track ball combo, via micro-size USB receiver

**Stand**

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

**Mount bracket**

Detachable stand (matching color with chassis, meets the VESA 75mm and 100mm mount standard

> **Tiny Desktop (0.5L)**
> - Black color
> - 6.05" W X 6.8" D X 0.85" H
> - 153.6mm W X 172.7mm D X 21.7mm H
> - 1.76 lb (0.8 kg) including stand
> - No bays, no slots

**Preloaded operating system²**

- Some: Genuine Windows® 7 Home Premium 32
- Some: Genuine Windows® 7 Home Premium 64

**Preloaded applications³**

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

**Limited Warranty¹**

- 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
  - 3-year Lenovo Onsite Repair 9x5 often Next Business Day (78Y1553)
  - 24x7 four 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 July 28, 2010 or February 16 or November 23, 2011

US model(s) withdrawn effective April 2013

(NR2-4) April 2013
### IdeaCentre Q700 (3015) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>L2 cache</th>
<th>Cores</th>
<th>Memory</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>802.11 wireless</th>
<th>Color</th>
<th>Bluetooth</th>
<th>Vista preload</th>
<th>Avail date</th>
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</thead>
<tbody>
<tr>
<td>3015-1AU</td>
<td>E5200</td>
<td>2.50</td>
<td>2MB</td>
<td>2</td>
<td>4GB</td>
<td>4-in-1</td>
<td>320GB2</td>
<td>DVD:±RW</td>
<td>GMA X4500</td>
<td>11b/g</td>
<td>Black</td>
<td>None</td>
<td>Black</td>
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<td>3015-1BU</td>
<td>E5200</td>
<td>2.50</td>
<td>2MB</td>
<td>2</td>
<td>4GB</td>
<td>4-in-1</td>
<td>500GB</td>
<td>DVD:±RW</td>
<td>GMA X4500</td>
<td>11b/g</td>
<td>Black</td>
<td>None</td>
<td>Black</td>
<td>None</td>
<td>Prem 64</td>
<td>Aug 09</td>
</tr>
<tr>
<td>3015-1CU</td>
<td>E5200</td>
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<td>2MB</td>
<td>2</td>
<td>4GB</td>
<td>4-in-1</td>
<td>640GB</td>
<td>DVD:±RW</td>
<td>GMA X4500</td>
<td>TV Remote</td>
<td>11b/g</td>
<td>Black</td>
<td>None</td>
<td>None</td>
<td>Prem 64</td>
<td>Aug 09</td>
</tr>
</tbody>
</table>

- **IdeaCentre Q series provide ultimate multimedia experience for home entertainment**
- **Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**

### Processor

- Intel® Pentium® Processor E5200 with dual-core, 800MHz system bus, Intel 64 Technology, Execute Disable Bit, EIST, and 2MB L2 cache
- **Intel® G43 Express Chipset** (PCI Express x16), I/O Controller Hub 10 [ICH10]
- **SATA controller**
  - Serial ATA, SATA 3Gb/s, integrated in ICH10
- **SATA DVD:±RW**
  - Multi-Burner DL DVD:±RW SATA 1.5Gb/s Drive, 12.7mm, slot-in
- **SATA cables**
  - Two SATA cables (each 1-drop to device), two SATA connectors
- **EIDE controller**
  - None
- **Diskette drive**
  - None
- **Media reader**
  - 4-in-1 media reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card)

### Chipset

- **Front ports**
  - Four USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)
- **Rear ports**
  - Four USB 2.0, one eSATA, ethernet (RJ-45), monitor (VGA DB-15, HDMI)
- **Rear audio ports**
  - Line-in (stereo, 3.5mm), three line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm), SPDIF-out
- **Audio**
  - High Definition (HD) audio, RealTek® ALC888s codec
- **External speakers**
  - None
- **Internal speaker**
  - None
- **Ethernet**
  - Gigabit ethernet on planar, Intel 82567V
- **Wireless**
  - Some: 11b/g wireless, Broadcom® BCM4312, PCIe x1 adapter
- **Modem**
  - None
- **Security chip**
  - None

### Mini PCI Express 11b/g™

- Two Mini PCI Express slots
- **TV tuner**
  - Hybrid tuner, support analog (NTSC) and digital (ATSC) signal
- **Remote control**
  - Some: Philips® Vista MCE remote control (40/45 button), IR receiver integrated

### Keyboard and Mouse

- 104-key wired keyboard (USB connector)
- Wired optical wheel mouse (USB connector)
- 120 watts, AC adapter, auto switch

### Preloaded operating system

- Genuine Windows® Vista®
- Home Premium 64
- Vista Premium logo

### Preloaded applications

- Lenovo® OneKey Recovery
- Driver and Application Installation
- Trend Micro™ PC-cillin™ Internet Security 2008
- Windows Live™ Toolbar
- Media Show
- CyberLink Power2Go (DVD:±RW)

### Security

- Security slot (in rear for optional Kensington Microsaver cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette

### 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 (78Y1551)
  - 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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(THT1-1) August 2010
### IdeaCentre™ Q700 (3015) - Windows 7 - withdrawn

**Processor**
- **Intel® Pentium® Processor E5200 or E5300 with dual-core, 800MHz system bus, and 2MB L2 cache**

**Intel Core™ 2 Duo Processor E7500 with dual-core, 1066MHz system bus, and 3MB L2 cache**

**Implementation**
Processor in FC-LGA6 package in LGA775 socket

**Memory**
4GB std, 4GB max*, PC2-5300 667MHz DDR2,
non-parity, dual-channel capable, two 200-pin SO-DIMM sockets
Italicics: standard memory in two sockets; no sockets available

**Graphics**
Integrated graphics in G43, uses main memory,
one VGA DB-15 connector, one HDMI connector, HDCP-compliant

**SATA disk**
500GB or 640GB SATA 3Gb/s, 7200 rpm

**SATA controller**
Serial ATA, SATA 3Gb/s, integrated in ICH10

**SATA DVD:RW**
Multi- Burner DL DVD:RW SATA 1.5Gb/s Drive, 12.7mm, slot-in

**SATA cables**
Two SATA cables (each 1-drop to device), two SATA connectors

**eSATA port**
One external SATA (eSATA) port

**EIDE controller**
None

**Diskette drive**
None

**Media reader**
4-in-1 media reader (MultiMedia Card, Memory Stick®,
Memory Stick PRO®), Secure Digital Card)

**Chipset**
Intel G43 Express Chipset (PCI Express x16), I/O Controller Hub 10 [ICH10]
(SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, USB)

**Ultra Small Form Factor (3.5L)**
- **Black color bezel**
- **2.36" W X 7.87" D X 9.84" H**
- **60mm W X 200mm D X 250mm H**
- **5.69 lb (2.58 kg)**

**Security**
- Security slot (in rear for optional Kensington Microsaver cable)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard, mouse, diskette

**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 (78Y1551)
  - 24x7** toll-free support for warranty issues during the warranty period via 877-453-6686

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

### Preloaded applications
- Lenovo® OneKey Recovery
- Driver and Application Installation

### See footnotes for important warranty information

**US models announced October 23, 2009**

**US models withdrawn effective August, 2010**

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### IdeaCentre™ Accessories

**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 ann 10/26/10
- Lenovo Mini Wireless Keyboard N5901A$^{12}$ (blk) 57Y6336 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 Mice N6901A (glossy black) 57Y6482
- Lenovo Wireless Mouse N30B (black) 55Y9360
- Wireless Mouse N3903A (metal) 57Y6596
- Wireless Mouse N3903A (coffee) 57Y6666 ann 01/25/11
- Wireless Mouse N3902A (black) 57Y6574
- Wireless Mouse N3902A (red) 57Y6673 ann 01/25/11

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

For more information on accessories:
- [www.lenovo.com/accessories](http://www.lenovo.com/accessories)
  Purchase Lenovo accessories
- [www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)
  Product specifications on Lenovo Support
- [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)
  Option Compatibility Matrix (OCM) and accessory brochures
- [www.lenovoquickpick.com](http://www.lenovoquickpick.com)
  An Options Compatibility Configurator for Lenovo systems
systems, even though it is possible to component available. On ThinkPad 7
5
4
3
2
1
64-bit operating systems.

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

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.

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

Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

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.

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.

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.

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.

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

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/pct/support and enter your machine type and model number for more information.

The IEEE 802.11n specification (MIMO) has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

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