Personal Systems Reference
Lenovo® 3000 and Essential Desktops
2006 - 2013 Withdrawn

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**All-In-One design with 18.5" 16:9 widescreen**

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

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<td>Sep 09</td>
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</table>

- Processor:
  - Intel® Atom™ processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache or
  - Intel Atom processor 330 with dual-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 1MB L2 cache

- Memory:
  - 1GB or 2GB std / 2GB max / PC2-5300 667MHz DDR2, non-parity, one 200-pin SO-DIMM socket; standard memory in one socket; no sockets available

- SATA DVD±RW

- SATA disk:
  - DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in
  - 160GB or 320GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

- Widescreen display:
  - 18.5" (470.1mm) WXGA (1366x768) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

- Camera:
  - Camera on top of screen, 1.3-megapixel, fixed focus, with mono microphone

- Graphics:
  - Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory

- Chipset:
  - Intel 945GC Express Chipset, I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, ethernet MAC, USB, LPC bus)

- Multicard reader:
  - None

- Ports:
  - Rear: Two USB 2.0, ethernet (RJ-45), keyboard (PS/2), microphone input jack (3.5 mm), headphone jack (3.5 mm)
  - Left: Two USB 2.0

- Mini PCI Express:
  - One Mini PCI Express slot
  - Some: 11b/g wireless®, Mini PCIe adapter, Realtek® RTL8191SE

- TV tuner:
  - None

- Bluetooth™:
  - None

- Modem:
  - None

- Ethernet:
  - 10/100 ethernet on planar, Realtek 8103EL

- Audio support:
  - High Definition (HD) Audio, Realtek® ALC662 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)

- Security:
  - Supervisor password

- Keyboard:
  - PS/2 full-size keyboard

- Mouse:
  - USB Optical Wheel Mouse

- Remote control:
  - None

- Dimensions:
  - (WxHxD): 18.5" x 14.6" x 3.98"; 469mm x 370mm x 101mm

- Weight:
  - 13.22 lb (6.0 kg)

- Chassis:
  - Black color

- Stand:
  - Basic folding stand (adjustable between 35° and 54°)

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See footnotes for important warranty information

© Lenovo (PH1-1) July 2010

US models announced September 15, 2009

US models withdrawn effective July 2010

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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 extending holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (43R8882)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

Preloaded operating system:

- Some: Genuine Windows® XP Home Edition
- Some: Genuine Windows Vista® Home Basic

Preloaded applications:

- Lenovo OneKey Recovery
- Driver and Application Installation
- Trend Micro™ PC-cillin™ Internet Security 2008
- Windows Live™ Toolbar (Vista Models)
- Cyberlink Power2Go (DVD±RW)
- Corel® WinDVD®

65-watt AC adapter
RoHS-compliant
Processor: Intel® Atom™ Processor D410 with single-core, DMI (Direct Media Interface), integrated DDR2 memory controller (up to 800MHz) Hyper-Threading Technology, and 512KB L2 cache

Memory: 1GB std / 4GB max, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets;

SATA DVD±RW: DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in

SATA disk: 160GB, SATA 3.0Gb/s, 2.5" wide, 5400 rpm

Widescreen display: 18.5" (470mm) HD (1366x768) TFT color, anti-glare, 16:9 aspect ratio, 1000:1 contrast ratio, Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone

Integrated graphics: Intel® Graphics Media Accelerator 3150 (GMA 3150), integrated graphics in processor, uses main memory

Chipset: Intel® NM10 Express Chipset

Multicard reader: 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, xD-Picture Card™)

Ports: Rear: Three USB 2.0, ethernet (RJ-45), keyboard (PS/2), Side: Two USB 2.0

PCIe Mini Card: One Mini PCI Express Mini Card slot

TV tuner: None

Bluetooth™: None

Ethernet: 10/100 ethernet on planar, Intel® 82552V

Audio support: High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (3 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)

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

Keyboard: PS/2 full-size keyboard, black

Mouse: USB Optical Wheel Mouse, black

Remote control: None

Dimensions: (WxHxD) including stand: 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm

Weight: 16.01 lb (7.26kg)

Chassis: Front bezel: black color; back bezel: black color

Stand: Easily adjustable stand (-5° to +25° viewing angle)

• All-In-One design with 18.5" 16:9 wide screen
• Lenovo® Rescue System provides OneKey recovery without booting into Windows
• Easily adjustable stand (-5° to +25° viewing angle)
Processor

- **Intel® Atom™ Processor D510 with dual-core**, integrated DDR2 memory controller (up to 800MHz), Hyper-Threading Technology, and 1MB L2 cache
- **Intel Atom Processor D525 with dual-core**, integrated DDR2/DDR3 memory controller (up to 800MHz), Hyper-Threading Technology, and 1MB L2 cache

Memory

- **1GB or 2GB** std / **4GB max**7 / non-parity, single-channel
  - Some: **PC2-5300 667MHz DDR2**
  - Some: **PC3-6400 800MHz DDR3**, two 204-pin SO-DIMM sockets;
  - Some: **Intel Graphics Media Accelerator 3150 (GMA 3150)**, in processor;
  - Some: **NVIDIA® graphics processor**, DirectX 10, PureVideo® HD technology, 256MB memory

SATA DVD:RW

- **DVD burner**, dual-layer support, fixed, removable, 12.7mm, tray-in
- **250GB** or **320GB**, SATA 3.0Gb/s, 2.5” wide, 5400 rpm

Widescreen display

- **18.5”** (470mm) HD (1366x768) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio;
  - Some: touchscreen supports one-finger touch
  - Some: Intel Graphics Media Accelerator 3150 (GMA 3150), in processor;
  - Some: NVIDIA® ION™ graphics processor, DirectX 10, PureVideo® HD technology, 256MB memory

Camera

- **Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone**
- **Power button, brightness up, brightness down, and display on/off buttons**

Graphics

- **Intel NM10 Express Chipset**
- **Multicard reader**
  - 5-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity)

Ports

- **Rear:** Three USB 2.0, ethernet (RJ-45), keyboard (PS/2),
  - **Side:** Two USB 2.0

PCIe Mini Card

- **11b/g/n** wireless
  - **TV tuner**
  - **Bluetooth**

Ethernet

- **10/100 ethernet on planar, Intel® 82552V**
- **Audio support**
  - **High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (3 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)**
  - **Security**: Power-on password, supervisor password, security lockhole

Keyboard

- **USB Optical Wheel Mouse, black**

Remote control

- **None**

Dimensions

- **(WxHxD) including stand:** 18.12” x 15.13” x 6.63”
- **460.3mm x 384.3mm x 168.3mm**

Weight

- **Non-touchscreen model:** 16.0lb (7.26kg);
- **Touchscreen model:** 17.1lb (7.67kg)

Chassis

- **Front bezel:** black color;
- **back bezel:** black color

Stand

- **Easily adjustable stand (-5° to +25° viewing angle)**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **All-In-One design with 18.5” 16:9 wide screen**
- **Some: touchscreen supports one-finger touch**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **Easily adjustable stand (-5° to +25° viewing angle)**
- **These systems are Microsoft Office 2010 Product Key Ready (O10PKR)**

See footnotes for important warranty information
© Lenovo
US models announced April 28 or August 25, 2010 or March 23, 2011
US models withdrawn effective December, 2012
All-In-One design with 18.5" 16:9 wide screen
Lenovo® Rescue System provides OneKey recovery without booting into Windows
Easily adjustable stand (-5° to +25° viewing angle)
### Lenovo® C205 (7729) - withdrawn

**Processor**
- AMD Accelerated Processor E-350 (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)

**Memory**
- 8GB max¹ / non-parity, PCs-10600 1333MHz DDR3*, two 204-pin SO-DIMM sockets; * System automatically clocks down for processors with 1066MHz DDR3 memory controller

**SATA DVD:RW**
- DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in

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

**Widescreen display**
- 18.5" (470mm) HD (1366x768) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio;

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

**Control**
- Power button, brightness up, brightness down, and display on/off buttons

**Graphics**
- AMD Radeon HD 6310 Graphics in processor, DirectX 11, use system memory

**Chipset**
- AMD A45 FCH

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

**Ports**
- **Rear:** Three USB 2.0, ethernet (RJ-45), keyboard (PS/2),
- **Side:** Two USB 2.0

**PCIe Mini Card**
- Two PCIe Mini Card slots (one full size and one half size)

**Modem**
- None

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

**Audio support**
- High Definition (HD) Audio, Realtek ALC662 codec /
  - two stereo speakers (3 watts x 2) / mono microphone, microphone input jack (3.5 mm),
  - headphone jack (3.5 mm)

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

**Keyboard**
- PS/2 full-size keyboard, black

**Mouse**
- USB Optical Wheel Mouse, black

**Remote control**
- None

**Dimensions³**
- (WxHxD) including stand: 18.12" x 15.13" x 6.63"; 460.3mm x 384.3mm x 168.3mm

**Weight³**
- Non-touchscreen model: 12.8lb (5.8kg);
  - Touchscreen model: 13.4lb (6.1kg)

**Chassis**
- Front bezel: black color; back bezel: black color

**Stand**
- Easily adjustable stand (-5° to +20° viewing angle)

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### 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 Power2Go (DVD±RW)
- CyberLink YouCam
- Lenovo IdeaTouch (Touch models)
  - PowerCinema
  - Lenovo VeriTouch
  - PhotoStudio Paint
  - Lenovo Ebook and Quick Notes
- Windows Live Essential
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

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### Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 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 period³ via 877-453-6686

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See footnotes for important warranty information

US models announced September 1, 2011
US models withdrawn effective December, 2012

© Lenovo (MAUI2-1) December 2012
**Lenovo® C300 (3012) - withdrawn**

**Processor**
- Intel® Atom™ processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache or
  - Intel Atom processor 330 with dual-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 1MB L2 cache

**Memory**
- 1GB, 3GB, or 4GB std / 4GB max / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets;
  - Italic: standard memory in both sockets; no sockets available
  - Non-italic: standard memory in one socket; one socket available

**SATA DVD±RW SATA disk**
- DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in, 160GB, 320GB, 500GB, or 640GB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm

**Widescreen display**
- 20" (508mm) WXGA++ (1600x900) TFT color, anti-glare, CCFL backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Camera**
- Camera on top of screen, 1.3-megapixel, fixed focus, with mono microphone
  - Controls: Brightness up/down buttons, display on/off button, and power button

**Graphics**
- Some: Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory
  - Some: ATI® Mobility Radeon™ HD 4530, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD

**Chipset**
- Intel 945GC Express Chipset, I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, ethernet MAC, USB, LPC bus)

**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), keyboard (PS/2), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)
  - Left: Two USB 2.0

**Mini PCI Express**
- One Mini PCI Express slot
  - 11b/g/n™
  - TV tuner: None
  - Bluetooth™: None
  - Modem: None
  - Ethernet: 10/100 ethernet on planar, Intel 82562G

**Audio support**
- High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (2 watts) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)

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

**Keyboard Mouse Remote control**
- PS/2 full-size keyboard
  - USB Optical Wheel Mouse
  - None

**Dimensions**
- (WxHxD): 19.05" x 14.12" x 3.28"; 484mm x 359mm x 83mm

**Weight**
- 13.8 lb (6.26 kg)

**Stand**
- Fold-away stand (adjustable between 12° and 40°)

**Preloaded operating system**
- Some: Genuine Windows® XP Home Edition
  - Some: Genuine Windows Vista® Home Basic
  - Some: Genuine Windows Vista® Home Premium

**Preloaded applications**
- Lenovo OneKey Recovery
  - Driver and Application Installation
  - Trend Micro® PC-cillin™ Internet Security 2008
  - Windows Live™ Toolbar (Vista Models)
  - Cyberlink Power2Go (DVD±RW)
  - Corel® WinDVD™

**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 (43R8882)
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

CRB1-1 October 2010
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<th>Camera (mega-pixel)</th>
<th>Discrete graphics</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Mini PCIe 802.11 wireless</th>
<th>Color</th>
<th>Blue-tooth</th>
<th>Win7 preload</th>
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<td>Black</td>
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<td>32 Nov 09</td>
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</table>

- **All-In-One design with 20" 16:9 widescreen**
- Lenovo® Rescue System provides OneKey recovery without booting into Windows
- Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°

### Processor

Intel® Atom™ processor 330 with dual-core, Hyper-Threading Technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 1MB L2 cache

### Memory

2GB or 3GB std / 4GB max”, PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; *Italic*: standard memory in both sockets; no sockets available; *Non-Italics*: standard memory in one sockets; one sockets available

### SATA DVD±RW

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

### SATA disk

320GB® or 500GB®, SATA-3.0Gb/s, 3.5" wide, 7200 rpm

### Widescreen display

20" (508mm) WXGA++ (1600x900) TFT color, anti-glare, CCFL backlight, 300 nits, 16:9 aspect ratio, 1000:1 contrast ratio, Camera on top of screen, 1.3-megapixel, fixed focus, with mono microphone

### Camera Controls

Brightness up/down buttons, display on/off buttons, and power button

### Discrete Graphics

ATI® Mobility Radeon™ HD 4530, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD

### Chipset

Intel 945GC Express Chipset, I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, ethernet MAC, USB, LPC bus)

### 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), keyboard (PS/2), IEEE 1394 FireWire 400 (4-pin connector, 1394a-2000 standard)

### Mini PCI Express 11b/g

One Mini PCI Express slot

### TV tuner

None

### Modem

None

### Ethernet

10/100 ethernet on planar, Intel 82562G

### Audio support

High Definition (HD) Audio, RealTek® ALC662 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)

### Security

Power-on password, supervisor password, security lockhole

### Keyboard

PS/2 full-size keyboard

### Mouse

USB Optical Wheel Mouse

### Remote control

None

### Dimensions

(WxHxD): 19.05” x 14.12” x 3.28”, 484mm x 359mm x 83mm

### Weight

13.8 lb (6.26 kg)

### Chassis

Black color

### Stand

Fold-away stand (adjustable between 12° and 40°)

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Preloaded operating system:
- Genuine Windows® 7 Home Premium 32

Preloaded applications (only some listed):
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus 2009 (60 days of virus definition)
- Cyberlink Power2Go (DVD±RW)
- Corel® WinDVD®

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, 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
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6886

See footnotes for important warranty information
US model announced on November 3 and December 17, 2009;
US models withdrawn effective October, 2010
### Lenovo® C315 (4022) - Windows 7 - withdrawn

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<th>Wide-screen display</th>
<th>Multi-Touch screen</th>
<th>Camera (megapixel)</th>
<th>Discrete graphics</th>
<th>SATA disk</th>
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<th>TV tuner</th>
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<th>Available date</th>
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<td>4022-1AU</td>
<td>Athlon II X2 250u</td>
<td>1.60</td>
<td>20&quot; HD+ Multi</td>
<td>0.3M</td>
<td>HD 4530</td>
<td>320GB² DVD±RW</td>
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<td>11b/g/n</td>
<td>None</td>
<td>802.11</td>
<td>None</td>
<td>Prem 32</td>
<td>Apr 10</td>
</tr>
</tbody>
</table>

- **All-In-One design with 20" 16:9 multi-touch screen**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°**

**Processor**: AMD® Athlon™ II X2 Processor 250u with dual-core, 3200MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR2 memory controller, and 2MB L2 cache (1MB per core)

**Memory**: 2GB std / 4GB max² / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets; Non-Italics: standard memory in one sockets; one socket available

**SATA DVD:RW**
- DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in
- 320GB², SATA 3.0Gb/s, 3.5" wide, 7200 rpm

**Wide-screen display**
- 20" (508mm) HD+ (1600x900) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, MultiTouch

**Camera Controls**
- Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone
- Power button, touch-sensitive buttons for brightness +/-, volume +/-, and display on/off

**Discrete Graphics**
- ATI™ Mobility Radeon™ HD 4530, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD

**Chipset**
- AMD 690M Chipset, SB600 south bridge

**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), keyboard (PS/2), IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)
- **Side**: Two USB 2.0

**PCIe Mini Card**
- Two Mini PCI Express Mini Card slots
- 11b/g wireless², Mini PCIe adapter, Broadcom® BCM4312

**Remote control**
- None

**Dimensions³**
- (WxHxD): 19.05" x 14.12" x 2.56"; 484mm x 359mm x 65mm

**Weight⁴**
- 16.3 lb (7.4 kg)

**Stand**
- Fold-away stand (adjustable between 12° and 40°)

**Preloaded operating system²⁵**
- Genuine Windows® 7
- Home Premium 32

**Preloaded applications²⁶** (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus
- Cyberlink Power2Go (DVD±RW)
- Lenovo IdeaTouch
- – PowerCinema
- – Lenovo VeriTouch
- – AutoCollage Touch
- Windows Live Essential
- Microsoft® Office 2007 Trial (60-day)

**Limited Warranty²⁷**
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts²⁷)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):²⁷
  - 2-year Lenovo In-Home Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo In-Home Repair
  - 9x5 Next Business Day (78Y1553)
- 24x7²⁷ toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information
US model(s) announced April 28, 2010
US model(s) withdrawn effective April 2013
### Lenovo C315 (4022) - Windows 7 (web only models) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>GHz</th>
<th>Memory</th>
<th>Multi-touch screen</th>
<th>Camera (megapixel)</th>
<th>Discrete graphics</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>Bluetooth</th>
<th>Win7 preload</th>
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<td>TV</td>
<td>Remote</td>
<td>11b/g</td>
<td>None</td>
<td>Prem 64</td>
<td>Apr 10</td>
</tr>
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</table>

- **All-In-One design with 20" 16:9 multi-touch screen**
- **Lenovo® Rescue System provides OneKey recovery without booting into Windows**
- **Advanced hinge design allows changing the screen angle with only one hand, and resting the screen angle at any intermediate position between 12° and 40°**

### Specifications

#### Processor
- AMD® Athlon™ II X2 Processor 250u with dual-core
- 3200MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, int DDR2 memory controller, and 2MB L2 cache (1MB per core)

#### Memory
- 2GB or 4GB std / 4GB max± / PC2-5300 667MHz DDR2, non-parity, dual-channel capable, two 200-pin SO-DIMM sockets;
- *Italics*: standard memory in both sockets; no sockets available;
- *Non-Italics*: standard memory in one sockets; one socket available

#### SATA Disk
- DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in
- 320GB or 500GB, SATA 3.0Gb/s, 3.5" wide, 7200 rpm

#### Widescreen Display
- 20" (508mm) HD+ (1600x900) TFT color, anti-glare, CCFL backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio, MultiTouch
- Camera on top of screen, 0.3-megapixel, fixed focus, with mono microphone
- Power button, touch-sensitive buttons for brightness +/-, volume +/−, and display on/off

#### Discrete Graphics
- ATI™ Mobility Radeon™ HD 4530, PCI Express® x16, 512MB memory, DirectX® 10, ATI Avivo™ HD

#### Chipset
- AMD 690M Chipset, SB600 south bridge

#### Multicard reader
- 6-in-1 reader (MultiMediaCard, 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), keyboard (PS/2), TV antenna connector, IEEE 1394 FireWire 400 (4-pin connector; 1394a-2000 standard)
- Side: Two USB 2.0

#### PCIe Mini Card
- Two Mini PCI Express Mini Card slots
- 11b/g wireless®, Mini PCIe adapter, Broadcom® BCM4312
- AverMedia Hybrid TV MiniCard A317, PCIe Mini Card adapter, supports analog (NTSC) and digital (ATSC) signal

#### Bluetooth®
- None

#### Modem
- None

#### Ethernet
- 10/100 ethernet on planar, Broadcom® BCM5787

#### Audio support
- High Definition (HD) Audio, RealTek® ALC262 codec / two stereo speakers (2 watt) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)

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

#### Keyboard
- PS/2 full-size keyboard, black

#### Mouse
- USB Optical Wheel Mouse, black

#### Remote control
- Philips® Win7 MCE remote control (40-button)

#### Dimensions3
- (WxHxD): 19.05" x 14.12" x 2.56"; 484mm x 359mm x 65mm

#### Weight²
- 16.3 lb (7.4 kg)

#### Chassis
- Front bezel: brown color; back bezel: black color

#### Stand
- Fold-away stand (adjustable between 12° and 40°)

See footnotes for important warranty information

US model(s) announced April 28, 2010
US model(s) withdrawn effective April 2013

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(BHM1-1) 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, Mon - Fri (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 service during the warranty period** via 877-453-6686

---

#### Preloaded operating system

- **Some**: Genuine Windows® 7 Home Premium 32
- **Some**: Genuine Windows® 7 Home Premium 64

#### Preloaded applications

- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Cyberlink Power2Go (DVD±RW)
- Lenovo IdeaTouch
  - PowerCinema
  - Lenovo VeriTouch
  - AutoCollage Touch
- Windows Live Essential
- Microsoft® Office 2007 Trial (60-day)

---

120-watt AC adapter
RoHS-compliant
Lenovo® C225 (3079) - web only models - withdrawn

### Specifications

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>CCFL or LED</th>
<th>Touch screen</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATATA optical</th>
<th>Color</th>
<th>TV tuner</th>
<th>PCIe Mini Card</th>
<th>Blue-tooth</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
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<tr>
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<td>4+2GB</td>
<td>18.5” HD LED</td>
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<td>HD 6320 1TB 32GB 500GB</td>
<td>DVD±RW</td>
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<td>White</td>
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<td>None</td>
<td>USB/Black</td>
<td>Prem 64</td>
<td></td>
</tr>
<tr>
<td>3079-3AU</td>
<td>E-450</td>
<td>2GBx2</td>
<td>18.5” HD LED</td>
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<td>HD 6320 1TB 32GB 500GB</td>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>USB/White</td>
<td>Prem 64</td>
<td></td>
</tr>
</tbody>
</table>

- **All-In-One design with 18.5” 16:9 wide screen**
- **SRS® Premium Sound audio enhancement for immersive surround sound**
- **Audio-in port to play music from your MP3 player without switching on the computer**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

### Processor

- **AMD Accelerated Processor E-450**: dual-core, 1.65GHz, 1MB L2 cache, integrated AMD Radeon™ HD 3330 Graphics, integrated DDR3 memory controller (up to 1333MHz)

### Memory

- 8GB max† / non-parity, PC3-10600 1333MHz DDR3, two 204-pin SO-DIMM sockets

### Sata DVD±RW

- DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in
- **500GB** (7200 rpm) or **1TB** (7200 rpm), SATA 3.0Gb/s, 3.5” wide

### Widescreen display

- **18.5” (470mm) HD (1366x768) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio**

### Multi-touch

- Camera on top of screen, 0.3-megapixel, fixed focus

### Power/other

- **Power Setting**: Lenovo Eye Distance System
- **Premium Sound™ certified / High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)**
- **Power-on password, administrator password, security lockhole**

### Graphics

- **AMD Radeon HD 6320 Graphics** in processor, DirectX® 11, use system memory

### Chassis

- Front bezel: black or white color; back bezel:  black or white color

### Weight

- From 12.65lb (5.74kg), vary by configuration

### Dimensions

- **(WxHxD) including stand**: 18.09” x 15.59” x 9.38”; 459.5mm x 396.1mm x 238.2mm

### Warranty

- **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 877-453-6886

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See footnotes for important warranty information

US model(s) announced December 21, 2011

US model(s) withdrawn effective April 2013

© Lenovo (PRSA-1-1) April 2013
### Lenovo® C325 (3095) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor GHz</th>
<th>Memory</th>
<th>Screen display</th>
<th>Multi-touch screen</th>
<th>Camera (mega-pixels)</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Color</th>
<th>TV tuner</th>
<th>PCIe Mini Card</th>
<th>Remote control</th>
<th>Keyboard/Mouse</th>
<th>Win7 preload</th>
</tr>
</thead>
<tbody>
<tr>
<td>3095-8AU E-450</td>
<td>1.65</td>
<td>4GBx1</td>
<td>20.0&quot; HD+</td>
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<td>0.3M</td>
<td>HD 6320</td>
<td>500GB</td>
<td>DVD±RW</td>
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<td>None</td>
<td>11b/g/n</td>
<td>None</td>
<td>USB/Black</td>
<td>Prem 64</td>
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<td>3095-3BU E-450</td>
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<td>4GBx1</td>
<td>20.0&quot; HD+</td>
<td>None</td>
<td>0.3M</td>
<td>HD 6320</td>
<td>500GB</td>
<td>DVD±RW</td>
<td>Black</td>
<td>None</td>
<td>11b/g/n</td>
<td>None</td>
<td>USB/Black</td>
<td>Prem 64</td>
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<td>3095-4BU E-350</td>
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<td>0.3M</td>
<td>HD 6310</td>
<td>500GB</td>
<td>DVD±RW</td>
<td>Black</td>
<td>None</td>
<td>11b/g/n</td>
<td>None</td>
<td>USB/Black</td>
<td>Prem 64</td>
</tr>
</tbody>
</table>

- **All-In-One design with 20.0" 16:9 wide screen with optional multi-touch**
- **SRS® Premium Sound audio enhancement for immersive surround sound**
- **Audio-in port to play music from your MP3 player without switching on the computer**
- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

**Processor**
- **AMD Accelerated Processor E-350** (dual-core, 1.60GHz, 1MB L2 cache), integrated AMD Radeon HD 6320 Graphics, integrated DDR3 memorycontroller (up to 1066MHz)
- **AMD Accelerated Processor E-450** (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon HD 6310 Graphics, integrated DDR3 memorycontroller (up to 1333MHz)

**Memory**
- 8GB max / non-partly, **PC3-10600 1333MHz DDR3**
- Two 204-pin SO-DIMM sockets
- System automatically clocks down for processors with 1066MHz DDR3 memorycontroller

**SATA DVD±RW**
- DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in

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

**Graphics**
- AMD Radeon HD 6320 Graphics in processor, DirectX® 11, use system memory

**Chipset**
- A45 FCH Multicard reader
- 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity)

**Ports**
- Rear: Four USB 2.0, ethernet ( RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out
- Side: Two USB 2.0

**PCle Mini Card**
- Two PCIe Mini Card slots (one full size and one half size)
- 11b/g/n wireless®, PCIe half Mini Card, Broadcom®, Realtek®, or Atheros® chip
- TV tuner
- None
- TV tuner
- None
- TV tuner
- None
- TV tuner
- None

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

**Audio support**
- High Definition (HD) Audio, Realtek ALC272 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)

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

**Keyboard/Mouse**
- USB full-size keyboard, black
- USB Optical Wheel Mouse, black

**Remote control**
- None

**Dimensions**
- (WxHxD) including stand: 19.65" x 16.82" x 9.38"; 499.0mm x 427.2mm x 238.2mm

**Weight**
- Non-touch models: from 13.9lb (6.3kg), vary by configuration
- Touch models: from 15.7lb (7.1kg), vary by configuration

**Chassis**
- Front bezel: black or white color; back bezel: black or white color
- Stand: Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)

---

See footnotes for important warranty information
US model(s) March 21 or August 29, 2012
US model(s) withdrawn effective April 2013

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**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)
- Cyberlink Power2Go (DVD±RW)
- CyberLink YouCam
- Lenovo Fun Zone
- Power Setting
- SRS Premium Sound
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

**Limited Warranty**
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts®)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations):
  - 2-year Lenovo In-Home Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo In-Home Repair
  - 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686
### Lenovo® C325 (3095) - web only models - withdrawn

#### Personal Systems Reference (PSREF)

#### Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts)\(^1\)
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Service upgrade options (in eligible locations)\(^2\):
  - 2-year Lenovo 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\(^3\) via 877-453-6686

#### Preloaded operating system\(^4\)
- Genuine Windows® 7 Home Premium 64
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus
- Cyberlink Power2Go (DVD±RW)
- CyberLink YouCam
- Lenovo Fun Zone
- Power Setting
- SRS Premium Sound
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo Eye Distance System
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

#### Preloaded applications\(^5\) (only some listed)
- Lenovo OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus
- Cyberlink Power2Go (DVD±RW)
- CyberLink YouCam
- Lenovo Fun Zone
- Power Setting
- SRS Premium Sound
- Lenovo IdeaTouch (Touch models)
- PowerCinema
- Lenovo E-book and Quick Notes
- Windows Live Essentials
- Microsoft® Office 2010 preloaded: purchase product key to activate
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System

### Specifications

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor GHz</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>CCFL or LED</th>
<th>Multi-Touch screen</th>
<th>Camera (megapixel)</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>SATA optical color</th>
<th>TV tuner</th>
<th>PCIe Mini Card</th>
<th>Remote control</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
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<tbody>
<tr>
<td>3095-2AU</td>
<td>E-450 1.65</td>
<td>4+2GB</td>
<td>20.0” HD+ LED</td>
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<td>USB/Black</td>
<td>Premium 64</td>
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</tbody>
</table>

- All-In-One design with 20.0” 16:9 wide screen with optional multi-touch
- SRS® Premium Sound audio enhancement for immersive surround sound
- Audio-in port to play music from your MP3 player without switching on the computer
- Lenovo Rescue System provides OneKey recovery without booting into Windows
- Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

#### Processor
- AMD Accelerated Processor E-350 (dual-core, 1.6GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)
- AMD Accelerated Processor E-450 (dual-core, 1.65GHz, 1MB L2 cache), integrated AMD Radeon HD 6320 Graphics, integrated DDR3 memory controller (up to 1333MHz)

#### Memory
- 8GB max / non-parity, PC3-10600 1333MHz DDR3\(^6\), two 204-pin SO-DIMM sockets
- System automatically clocks down for processors with 1066MHz DDR3 memory controller

#### SATA DVD±RW
- SATA 3.0Gb/s, 3.5” wide

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

#### Multi-touch
- Some: multi-touch, 2-point support
- Camera: Camera on top of screen, 0.3-megapixel, fixed focus
- Controls: Power on/off, menu, left, right, and display on/off buttons

#### Graphics
- AMD Radeon HD 6320 or HD 6310 Graphics in processor, DirectX® 11, use system memory

#### Chipset
- AMD A45 FCH
- Multicard reader: 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™)
- Ports: Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner
- Side: Two USB 2.0

#### PCIe Mini Card
- Two PCIe Mini Card slots (one full size and one half size)
- 11b/g/n wireless\(^7\), PCIe half Mini Card, Broadcom\®, Realtek\®, or Atheros\® chip

#### Bluetooth™
- None

#### Modem
- None

#### Ethernet
- Gigabit ethernet on planar, Realtek RTL8111E
- Audio support: High Definition (HD) Audio, Realtek ALC2722 codec / SRS® Premium Sound™ certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/ microphone jack (3.5 mm), headphone jack (3.5 mm)

#### Security
- Power-on password, administrator password, security lockhole

#### Keyboard
- Some: USB full-size keyboard, black
- Some: USB full-size keyboard, white

#### Mouse
- Some: USB Optical Wheel Mouse, black
- Some: USB Optical Wheel Mouse, white

#### Remote control
- Some: MCE remote control, via IR, black
- Some: MCE remote control, via IR, white

#### Dimensions\(^8\)
- (WxHxD) including stand: 19.65” x 16.82” x 9.38”; 499.0mm x 427.2mm x 238.2mm

#### Weight\(^9\)
- Non-touch models: from 15.7lb (7.1kg), vary by configuration
- Touch models: from 15.7lb (7.1kg), vary by configuration

#### Chassis
- Freestanding: black or white color; back bezel: black or white color
- Easy adjustable stand (5° forward / 25° backward viewing angle adjustment)

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

See footnotes for important warranty information

US model(s) announced December 21, 2011 or June 6 or September 19, 2012
US model(s) withdrawn effective April 2013

© Lenovo (AGNA1-1) April 2013
Lenovo™ 3000 J100 (8253) - withdrawn

Personal Systems Reference (PSREF)

See footnotes for important warranty information.

US models announced February 23, April 25, May 2, or July 25, 2006
US models withdrawn effective June 2007 or January 2008

© Lenovo

Limitations

1. Year 2000
2. International Warranty Service
3. Customer Replaceable Unit (CRU)

Preloaded

- Lenovo Care™
- Rescue and Recovery™
- System Update
- Password Manager
- Norton Internet Security™ 2005
- AntiSpyware Edition
- AC-Doctor™ (diagnostics)
- Google Desktop
- Picasa from Google
- Diskeeper™ Lite

Preloaded (all OSes; some only listed)

- Lenovo Care™ tools
- AOL and EarthLink (XP Home models only)
- Roxio DigitalMedia LE (CD-RW, combo, DVD±RW)
- InterVideo WinDVD (combo, DVD±RW, DVD±RW Creator (DVD±RW))
- Some: Microsoft Office SBE (SP2)
- Some: Stand-alone Client (Notes client not supported on XP Home)

Tower

- Business black color with silver accents
- One lock to secure both cover and keyboard
- Mouse (PS/2), keyboard (PS/2), optional card disk I/O control
- Serial port I/O control
- Parallel port I/O control

Preload with Windows XP Home Edition

- All except 8253-F1U: Corel Small Business Center™ with WordPerfect Office 12
- Corel Photo Album Starter™
- AQL and EarthLink (XP Home models only)
- Roxio DigitalMedia LE (CD-RW, combo, DVD±RW)
- InterVideo WinDVD (combo, DVD±RW, DVD±RW Creator (DVD±RW))
- Some: Microsoft Office SBE (SP2)
- Some: Stand-alone Client (Notes client not supported on XP Home)

Preload with Windows XP Professional Edition

- Without option
- AQL and EarthLink (XP Home models only)
- Roxio DigitalMedia LE (CD-RW, combo, DVD±RW)
- Commit to preloading (no customization)

Preloaded

- Dell Corel Small Business Center™ with WordPerfect Office 12
- Corel Photo Album Starter™
- AQL and EarthLink (XP Home models only)
- Roxio DigitalMedia LE (CD-RW, combo, DVD±RW)
- InterVideo WinDVD (combo, DVD±RW, DVD±RW Creator (DVD±RW))
- Some: Microsoft Office SBE (SP2)
- Some: Stand-alone Client (Notes client not supported on XP Home)
Positioning: The smart choice for small business

Processor: Intel® Pentium D Processor 820 with dual-core, EM64T, Execute Disable Bit, and 800MHz system bus with two x 1MB (dual-core) L2 cache

Implementation: Processor and L2 cache in FC-LGA4 or LGA6 in LGA775 socket

Memory - std/max: 512MB or 1GB std / 2GB max

- Two 240-pin DIMM sockets / FCU: two sockets used (512MB in each socket);
- others: one socket used / one socket available

- PC2-4200 533MHz DDR2 / non-parity / CAS latency 4 (CL4) / unbuffered / dual-channel capable

Graphics: Intel Graphics Media Accelerator 950 (GMA 950) / integrated graphics in 945GZ GMCH / uses main memory / 400MHz / one 15-pin analog D-sub connector / 945GZ does not support dual independent display

- SATA disk: 80 or 160GB / SATA300 7200 rpm
- SATA controller: Serial ATA / 300MB/sec SATA300 / integrated in motherboard
- SATA cables: One SATA cable (one 1-drop) / two SATA connectors on planar
- EIDE Combo: Some: DVD and CD burner / Super Multi-Burner DL Drive (part 41N5581)
- EIDE controller: Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH7)
- EIDE cables: One 2-drop EIDE cable to optical / one EIDE connectors on planar
- Diskette drive: Some: 3.5" 1.44MB diskette drive
- Media reader: Some: 9-in-1 media reader / occupies diskette drive bay / internal USB 2.0

Chipset: Intel 945GZ Express Chipset / 82945GZ Graphics Memory Controller Hub (GMCH) / 82801GB I/O Controller Hub (ICH7) for SATA300, ATA-100 EIDE, PCI 2.3 bus, USB, Low Pin Count interface / ITE Tech® IT8712F/JX Super I/O for serial, parallel, diskette, keyboard, mouse, auto-thermal controls

Front ports: Two USB (Version 2.0), microphone (mono, 3.5mm), headphone (stereo, 3.5mm)

- Four USB (Version 2.0), one 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), monitor (DB-15), telephone jack (RJ-45), monitor (DB-15)
- Some: desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo logo

Rear audio ports: Microphone-in (mono), line-out (stereo) [all 3.5mm]

Audio: Integrated digital audio / AC 97 interface / Realtek ALC655 codec

One internal beeper

External speakers: Some: 56Kbps V.90 data/fax modem / PCI adapter

IEEE 1394: Some: FireWire PCI adapter / 1394A, 400Mbps, dual 6-pins ports on rear, 4-pin port on front of system, no external cables included

Ethernet: 10/100 Ethernet on systemboard / Realtek 8100C controller (MAC/PHY) / PCI 2.3 / Wake on LAN® / PXE 2.0 and RPL remote boot

Modem: Some: 56Kbps V.90 data/fax soft modem / PCI adapter

Keyboard: 104-key Preferred Pro Full-size keyboard (6-pin PS/2 connector), black

Mouse: Optical Wheel Mouse (USB only), 400 dpi, black

Power supply: 250 watts / universal / manual switch

Preload with Windows XP Home: 60 Microsoft® Windows® XP Home Edition

- Disk-to-Disk Recovery (in hidden protected area)

Preload with Windows XP Professional: Microsoft Windows XP Professional

- Disk-to-Disk Recovery (in hidden protected area)

Preloaded: 25 tools

- Lenovo Care™ tools
- Rescue and Recovery™
- System Update
- Password Manager
- PC-Doctor™ (diagnostics)
- Adobe Reader
- Google Toolbar
- Google Desktop
- Picasa from Google

- Diskkeeper™ Lite
- Corel® Small Business Center™ with WordPerfect® Office 12
- Corel Photo Album Starter™ 6
- AOL and EarthLink (XP Home models only)
- Roxio DigitalMedia LE (combo, DVD+RW models)
- InterVideo WinDVD (combo, DVD+RW models)
- InterVideo WinDVD Creator (DVD+RW models)

License - CD not included (all)

- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client (Notes client not supported on XP Home)

Accessories: Accessories on O-J sheet

LIMITED WARRANTY:

- 1-year parts and labor
- International Warranty Service
- Customer Replaceable Unit (CRU) parts are available with onsite service
- 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Onsite service upgrade options (in eligible locations):

- 2-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0541)
- 3-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:

- 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
- 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)

- Lenovo Care services at http://lenovo.com/warranty
- 24x7 toll-free support for warranty issues during the warranty period

LIMITED AVAILABILITY:

- 1-yr July 06
- 2-yr July 06
- 3-yr July 06
- 4-yr July 06

For more information, visit http://www.lenovo.com
Lenovo™ 3000 J105 (8258) - withdrawn

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<td>1-yr</td>
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</table>

Positioning

Processor

The smart choice for small business

- **AMD Sempron™ 3000+** or **3400+ Processor** with AMD64 (32-bit and 64-bit integrated memory controller, single-core, HyperTransport™ to north bridge or
- **AMD Athlon™ 64 3200+ Processor** with AMD64 (32-bit and 64 bit), integrated DDR1 memory controller, single-core, and HyperTransport to north bridge

L2 cache

- Sempron: 128KB
- Athlon 64: 512KB

Socket

- 754-pin

Memory - std/max

| 256 | 512MB | 1GB | 2GB | (266 MHz) | 2GB | max |

Memory - Two 184-pin DIMM sockets / HBU/B0/U1: two sockets used (512MB per socket); others: one socket used / PC3200 400MHz DDR1 / non-parity / CAS latency 3 (CL3) / unbuffered / dual-channel capable

Graphics

Integrated graphics in VIA K8M800 chipset / VIA S3 Graphics

UniChrome™ Pro IGP / uses main memory up to 64MB / 200MHz / one 13-pin analog D-sub connector / AGP 8X slot available

SATA disk

- 80GB, 160GB or 250GB / SATA3 7200 rpm

SATA controller

- Serial ATA / 150MB/sec / integrated in south bridge

SATA cables

- One SATA cable (one-drop to disk) / 2 SATA connectors on planar

EIDE CD

- Some: 48X-20X CD-ROM

EIDE DVD±RW

- Some: 48X/32X/48X/16X Max1 CD-RW/DVD-ROM Combo

EIDE DVD±R/W

- Some: DVD and CD burner / double-layer / Multi-Burner Plus (part 73P3370)

EIDE controller

- Enhanced IDE / ATA-100 / Integrated in I/O Controller Hub (ICH6)

EIDE cables

- One 2-drop EIDE cable to optical / two EIDE connectors on planar

Diskette drive

- Some: 3.5" 1.44MB diskette drive

Media reader

- Some: 9-in-1 media reader / occupies diskette drive bay / internal USB 2.0

Chipset

VIA K8M800 chipset / VIA S3 North bridge graphics and memory controller / VIA VT8237 south bridge I/O Controller for SATA150, ATA-133 EIDE, PCI 2.3, USB 2.0 / ITE Tech 87050X Super I/O for serial, parallel, diskette, keyboard, and mouse

Front ports

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

Rear ports

- Four USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), optical drive (USB)

Rear audio ports

- Microphone-in (mono), line-out (stereo), line-out (stereo) [all 3.5mm]

Audio

- Integrated digital audio / AC 97 interface / Realtek ALC662 codec

Beepers

- One internal beeper

Ethernet

- 10/100 or 1000 ethernet on system board / VIA VT610L / PCI 2.3 / Wake on LAN / PXE 2.0 and RPL remote boot

Modem

- Some: 56Kv.90 data/fax soft modem / Conexant® chipset / PCI adapter

Primary hard disk

- 40GB, 80GB, 160GB, 250GB, 320GB, 400GB

Secondary hard disk

- 20GB, 40GB, 80GB, 120GB, 160GB, 250GB

Integrated RAID

- Some: 250GB, 500GB, 1TB, 2TB

External speakers

- Desktop speakers, 2-piece, 6 watts (3 watts each), black, Lenovo logo

Power supply

- 250 watts / universal / manual switch

Limited warranty

- 1-year parts and labor
- International Warranty Service
- Customer Replaceable Unit (CRU) parts are available on on-site service, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Onsite service, upgrade options (in eligible locations):
  - 2-year LOR 9x5, Next Business Day (Lenovo Care® part number 41K0541)
  - 3-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
- Post-warranty maintenance services:
  - 1-year LOR 9x5, Next Business Day Service (Lenovo Care® part number 41K0543)
  - 2-year LOR 9x5, Next Business Day Service (Lenovo Care part number 41K0543)
- Lenovo Care services at:
  - http://lenovo.com/warranty
  - 24x7 toll-free support for warranty issues during the warranty period

See footnotes for important warranty information

US models announced February 23, April 25, or July 25, 2006
US models withdrawn effective June 2007 or January 2008

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(SEG1-2) January 2008
**Lenovo™ 3000 J110 (7393) - withdrawn**

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*These models have a 1-year limited warranty*

### Tower

- **ViewSonic black color with silver accents**
- *7.1* "WX 17.5" D X 15.4" H
- **180mm W X 445mm D X 392mm H**
- **20.1 to 22.5 lb (9.1 to 10.2 kg)**
- **Handle on top front**
- **Thumbscrew for removal of side covers**
- **Tooless entry**

### SECURITY

- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for opt padlock)
- **No security slot (in rear for optional Kensington Microsaver)**
- **No keylock**
- **Power-on password**
- **Administrator password**
- **Boot sequence control**
- **Boot without keyboard, mouse, diskette and/or CD/DVD**
- **Unattended start mode**
- **Hard disk I/O control**
- **Serial port I/O control**
- **Parallel port I/O control**

### LIMITED WARRANTY

- **1-year parts and labor**
- **International Warranty Service**
- **Customer Replaceable Unit (CRU) parts are available with onsite service**
- **8 am - 5 pm, Mon - Fri coverage excluding holidays**
- **next business day response time**
- **Onsite service upgrade options**
  - **2-year LOR, Next Business Day**
  - **Post-warranty maintenance services**
    - **1-year LOR, Next Business Day**
    - **2-year LOR, Next Business Day**

### Lenovo Care services at

- [http://lenovo.com/warranty](http://lenovo.com/warranty)
- [24x7 toll-free support for warranty issues](http://lenovo.com/warranty)

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*available at [http://www.lenovo.com/warranty](http://www.lenovo.com/warranty)*

© Lenovo

US models announced October 24, 2006, or April 24 or August 14, 2007

US models withdrawn effective August 2007 or January 2008

(5G2-2) January 2008
Lenovo™ 3000 J110 (7393) - January 2007 - withdrawn

Positioning
Processor
Excellent performance at competitive prices
- Intel® Pentium® 4 Processor 631 or 641 with single-core,
- Intel 64 Technology, Hyper-Threading technology,
- Execute Disable Bit, 800MHz system bus, and 2MB L2 cache or
- Intel Pentium D Processor 915, 925, or 945 with dual-core,
- Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2x2MB L2 cache or
- Intel Core® 2 Duo Processor E4300 with dual-core,
- Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache

Implementation
Processor and L2 cache in FC-LGA6 in LGA775 socket

Memory - std/max
- 512MB or 1GB std / 4GB max
- Memory: 512MB or 1GB in one socket; no sockets available

Graphics
- Intel Graphics Media Accelerator 3000 (GMA 3000) / integrated graphics in 946GZ / uses main memory
- (up to 256MB) / 400MHz / one 15-pin analog D-sub connector / integrated graphics in 946GZ / uses main memory
- Intel Graphics Memory Controller Hub (GMCH) / Intel 946GZ Express Chipset
- None
- 80GB, 160GB, or 250GB / SATA300 7200 rpm
- 80GB, 160GB, or 250GB / SATA300 7200 rpm
- Serial ATA / 300MB/sec SATA300 / integrated in ICH7
- One SATA cable
- Some: 16X-48X Max+ DVD-ROM / single-layer / EIDE
- Some: 48X/2X48X/16X Max+ CD-ROM/DVD Combo
- Some: DVD burner / Super Multi-Burner DL (41N5581)
- Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH7)
- One 2-drop EIDE cable to optical / 2 EIDE connectors on planar
- None
- Some: 9-in-1 media reader / occupies diskette drive bay / internal USB 2.0

Chipset
- Intel 946GZ Express chipset / 82946GZ Graphics Memory Controller Hub (GMCH) / 82801GB I/O Controller Hub (ICH7) for SATA300, ATA-100 EIDE, PCI Express x1, PCI 2.3 bus, USB, Low Pin Count interface / ITE Tech IT8718 Super I/O

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

Rear ports
- Microphone-in (mono), line-in (stereo) / 3.5mm
- High Definition (HD) Audio / AD1986A codec / SoundMAX software
- One internal speaker
- Gigabit ethernet on systemboard / Broadcom® BCM5786 (PHY/MAC) / PCIe x1

Modem
- Some: 56K V.90 data/fax soft modem / PCle adapter

Keyboard
- 104-key Preferred Pro USB Keyboard, black
- Microsoft Optical Wheel Mouse (USB only), 400 dpi, black

Power supply
- 250 watts / universal / manual switch

Preloaded system
- Some: Microsoft® Windows® Vista™

Preloaded applications
- Some: Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
- Some: Windows Anytime Upgrade DVD included for upgrade to different Vista versions for a fee

Security
- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for optional padlock)
  - No security slot (in rear for optional Kensington Microsaver cable)
  - No keylock
  - Power-on password
  - Administrator password
  - Root control
  - Boot without keyboard, mouse, diskette
  - Unattended start mode
  - Hard disk I/O control
  - Serial port I/O control
  - Parallel port I/O control

Limited Warranty
- 1-year parts and labor
- Lenovo Customer Replaceable Unit (CRU) parts are available on onsite service, 8 am – 5 pm, Mon – Fri coverage excluding holidays, next business day response time
- Onsite service upgrade options (in eligible locations):
  - 2-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0549)
  - 3-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0543)
  - Post-warranty maintenance services:
    - 1-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0542)
  - Lenovo Care services at http://www.lenovo.com/warranty
  - 24x7 toll-free support for warranty issues during the warranty period 800-IBM-SEER (426-7378)

See footnotes for important warranty information

US models withdrawn effective August 2007 or January 2008

© Lenovo (SG2-4) January 2008

36x746 Lenovo 3000 J110 (7393) - January 2007 - withdrawn
36x746 Keyboard Modem Rear audio ports Front ports Chipset
36x746 ± EIDE Combo EIDE DVD SATA controller
36x746 Graphics Media reader EIDE cables
36x746 Processor Memory
36x746 7393-8NU 4x4 Core 2 Duo E4300 1.80 2MB Dual 1GB 160GB DVD rw GMA Yes Spkrs Home Basic Basic Jan 07
36x746 7393-5CU 4x4 Pentium D 925 3.00 2x2MB Dual 512MB 9-in-1 250GB DVD rw GMA Yes Spkrs Home Premium Premium May 07
36x746 7393-6GU 4x4 Pentium D 945 3.40 2x2MB Dual 160GB DVD rw GMA Yes Spkrs Home Premium Premium May 07
36x746 7393-8NU 4x4 Core 2 Duo E4300 1.80 2MB Dual 1GB 160GB DVD rw GMA Yes Spkrs Home Basic Basic Jan 07
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36x746 7393-8NU 4x4 Core 2 Duo E4300 1.80 2MB Dual 1GB 160GB DVD rw GMA Yes Spkrs Home Basic Basic Jan 07
36x746 7393-7GU 4x4 Pentium D 930 2.80 2x2MB Dual 1GB 80GB Combo GMA Business Basic Jan 07
36x746 7393-6GU 4x4 Pentium D 945 3.40 2x2MB Dual 160GB DVD rw GMA Yes Spkrs Home Premium Premium May 07
36x746 7393-8NU 4x4 Core 2 Duo E4300 1.80 2MB Dual 1GB 160GB DVD rw GMA Yes Spkrs Home Basic Basic Jan 07
36x746 7393-5CU 4x4 Pentium D 925 3.00 2x2MB Dual 512MB 9-in-1 250GB DVD rw GMA Yes Spkrs Home Premium Premium May 07
36x746 7393-6GU 4x4 Pentium D 945 3.40 2x2MB Dual 160GB DVD rw GMA Yes Spkrs Home Premium Premium May 07
36x746 7393-8NU 4x4 Core 2 Duo E4300 1.80 2MB Dual 1GB 160GB DVD rw GMA Yes Spkrs Home Basic Basic Jan 07
36x746 7393-7GU 4x4 Pentium D 930 2.80 2x2MB Dual 1GB 80GB Combo GMA Business Basic Jan 07

Lenovo™ 3000 J115 (7387) - withdrawn

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</table>

- These models have a 1-year limited warranty*

**Positioning**

Excellent performance at competitive prices

**Processor**

AMD Athlon™ 64 3500+ with single-core, integrated L1/L2 cache, AMD64, integrated DDR2 memory controller, and virtualization technology or

AMD Athlon 64 X2 3800+, 4000+, 4200+, or 4400+ with dual-core, integrated L1/L2 cache, AMD64, integrated DDR2 controller, and virtualization technology.

**Implementation**

Processor in 940-pin PGA package in Socket AM2

**Memory**

- std/max 512MB or 1GB std / 4GB max

**Power supply**

(one of following)

- Keyboard
- External speakers
- Audio
- Rear ports
- Front ports
- Chipset
- EIDE cables
- EIDE controller
- RW
- EIDE Combo
- 48X/32X/48X/16X Max 11 CD-RW/DVD-ROM Combo

**Graphics**

NVIDIA GF 6100 / integrated graphics controller in CS1g chipset / uses main memory / 465MB / 1 pin analog D-sub connector / optional PCI Express x16 adapter can support two monitors

- *modem in slot in some models

**SATA disk**

80GB, 160GB, or 250GB / SATA300 7200 rpm

**SATA controller**

serial ATA / 300MB/sec SATA300 / integrated in south bridge

**SATA cables**

One SATA cable (one 1-drop to disk) / 2 SATA connectors on planar

**EIDE Cable**

Some: 16X-48X Max DVD-ROM / single-layer / EIDE

**EIDE Combo**

Some: 48X/32X/48X/16X Max CD-RW/DVD-ROM Combo

**EIDE DVD**

Some: DVD burner / Super Multi-Burner DL Drive (41N5581)

**EIDE controller**

Enhanced IDE / ATA-133 / integrated in NVIDIA MCP51 south bridge

**EIDE cables**

One 2-drop EIDE cable to optical / 2 EIDE connectors on planar

**Diskette drive**

None

**Media reader**

Some: 9-in-1 media reader / occupies diskette drive bay / internal USB 2.0

**Chipset**

NVIDIA GeForce® 6100 C51g chipset / C51g includes graphics controller, support for PCI Express x1 slot, PCI Express x16 slot, PCI 2.3 slots / NVIDIA MCP51 south bridge for SATA300, ATA-133 EIDE, USB, Low Pin Count interface / Winbond® W83627EHEG Super I/O

**Front ports**

Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm), four USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), and Ethernet RJ-45, monitor (DB-15)

**Rear ports**

Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]

**Audio**

High Definition (HD) Audio / AD1986A codec / SoundMAX® software

**External speakers**


**Modem**

Some: 56K10 V.90 data/fax soft modem / PCI adapter

**Ethernet**

Gigabit ethernet on planar / Broadcom® BCM5788 / PCI 2.3 / Wake on LAN®

**License**

Preload - Microsoft Windows XP Home Edition

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

Preload Windows XP Professional

License - 1 year limited warranty

**Preload with Windows XP Home**

Microsoft Windows XP Home Edition

- Disk-to-Disk Recovery (in hidden protected area)

**Preload Windows with XP Professional**

Microsoft Windows XP Professional

- Disk-to-Disk Recovery (in hidden protected area)

**Preload**

- Lenovo Care™ tools
- Rescue and Recovery™
- System Update
- Password Manager
- Norton Internet Security™
- (90 days of virus definitions)
- PC Doctor™ (diagnostics)
- Adobe® Reader
- Google Toolbar
- Google Desktop
- Picassa from Google
- Diskeeper® Lite
- Corel Small Business Center™ with WordPerfect® Office 12
- Corel Photo Album Starter™ 6
- AOL and EarthLink (XP Home models only)
- Roxio Digital Media LE (combo, DVD±RW)
- InterVideo WinDVD (combo, DVD±RW)
- InterVideo WinDVD Creator (combo, DVD±RW)

**License**

- CD not included (all OSes)
- Lotus® SmartSuite® Millennium and Lotus Notes® Client
- (Notes client not supported on XP Home)

**Accessories**

- Accessories on OJ sheet
- Acc Guide in pdf at lenovo.com/accessories

**Update your personal systems reference (PSREF)**

See footnotes for important warranty information

US models announced September 19, 2006 or April 24, 2007

US models withdrawn effective August 2007 or January 2008

© Lenovo (SG2-1) January 2008

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**LIMITED WARRANTY**

- 1-year parts and labor
- International Warranty Service®
- Customer Replaceable Unit (CRU) parts are available with onsite service®, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Onsite service upgrade options in eligible locations
- 2-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0541)
- 3-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
- Post-warranty maintenance services (in eligible locations)
- 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0542)
- 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty

Toll-free support for warranty issues during the warranty period® 800-IBM-SERV (426-7378)
Lenovo™ 3000 J115 (7387) - January 2007 - withdrawn

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- These models have a 1-year limited warranty.

Positioning

Processor Excellent performance at competitive prices

AMD® Sempron® 3400+ with single-core, integrated L1/L2 cache, AMD64, and integrated DDR2 memory controller or

AMD Athlon® 64 3800+ with single-core, integrated L1/L2 cache, AMD64, integrated DDR2 memory controller, and virtualization technology or

AMD Athlon® 64 X2 3800+ or 4200+ with dual-core, integrated L1/L2 cache, AMD64, integrated DDR2 controller, and virtualization technology

Implementation Processor in 940-pin PGA package in Socket AM2

Memory - std/max 512MB or 1GB std / 4GB max

Memory

PC2-4200 533MHz DDR2 / non-parity / CAS latency 4 / unbuffered / dual-channel capable / two 240-pin DIMM sockets / 512MB models: one socket used, models 4GBU/4AU/4A/U: two sockets used (1GB per socket); models 9GU/2JU/2KU/2MU: two sockets used (512MB per socket)

Graphics NVIDIA® GF 6100 / integrated graphics controller in C51g chipset / uses main memory / 425MHz / one 15-pin analog-D Sub connector / optional PCI Express x16 adapter can support two monitors

SATA disk 80GB, 160GB, or 250GB / SATA300 / 7200 rpm

SATA controller Serial ATA / 300MB/sec / SATA300 / integrated in south bridge

SATA cables Some:

- One SATA cable (one 1-drop to disk) / 2 SATA connectors on planar

EIDE DVD Some:

- 16X/48X Max DVD-ROM / single-layer / EIDE

EIDE Combo Some:

- 48X/32X/48X/16X Max CD-RW/DVD-ROM Combo

EIDE H/D RW Some:

- DVD burner / Super Multi-Burner DL Drive (41N5581)

EIDE controller Enhanced IDE / ATA-133 / integrated in NVIDIA MCP51 south bridge

EIDE cables Some:

- One 2-drop EIDE cable to optical / 2 EIDE connectors on planar

Diskette drive None

Media reader Some:

- 9-in-1 media reader / occupies diskette drive bay / internal USB 2.0

Chipset NVIDIA GeForce® 6100 C51g chipset / C51g includes graphics controller, support for PCI Express x1 slot, PCI Express x16 slot, PCI 2.3 slots / NVIDIA MCP51 south bridge for SATA300, ATA-133 EIDE, USB, Low Pin Count interface / Winbond® W83627EHG Super I/O

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

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

Rear audio ports Microphone-in (mono), line-in (stereo), line-out (stereo) / all 3.5mm

Audio High Definition (HD) Audio / AD1986A codec / SoundMAX® software

Beepers One internal beeper

Ethernet Gigabit ethernet on planar / Broadcom® BCM5788 / PCI 2.3 / Wake on LAN®

Modem Some:

- 56k/14.4 V.90 data/fax soft modem / PCI adapter

Keyboard 104-key Preferred Pro USB Keyboard, black

Mouse Optical Wheel Mouse (USB only), 400 dpi, black

Power supply 250 watts / universal / manual switch

Preloaded operating system


Preloaded applications (all OSes)

- Lenovo Care™ Tools

- Rescue and Recovery™

- System Update

- Password Manager

Norton Internet Security™ (7 days of virus definitions)

PC-Doctor® (diagnostics)

Adobe® Reader

Picasso from Google

Diskkeeper® Home

- Corel® Small Business Center™ with WordPerfect® Office 12

- QuickBooks Financial Center

License - CD not included (all OSes)

- Lotus® Smartsuite® Millennium and Lotus Notes® Stand-alone Client

Accessories

- Accessories on O-J sheet


POWER SUPPLY

- Full power supply

- Mouse

- Keyboard

- Modem

- Ethernet

- Beepers

- Audio

- Rear audio ports

- Rear ports

- Rear audio ports

- Audio

- Beepers

- Ethernet

- Modem

- Keyboard

- Mouse

- Power supply

SECURITY

- One key to lock both cover and entire system to fixed object:

  - Padlock loop (in rear for opt padlock)

  - No security slot (in rear for optional Kensington Microsaver cable)

  - No keylock

  - Power-on password

  - Administrator password

  - Boot sequence control

  - Boot without keyboard, mouse, diskette drive, or media reader

  - Hard disk I/O control

  - Serial port I/O control

  - Parallel port I/O control

LIMITED WARRANTY

- 1-year parts and labor

- International Warranty Service

- Customer Replaceable Unit (CRU) parts are available with onsite service, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time

- Onsite service upgrade options (in eligible locations):

  - 2-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0541)

  - 3-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0542)

- Post-warranty maintenance services:

  - 1-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0543)

  - 2-year LOR 9x5, Next Business Day (Lenovo Care™ part number 41K0544)

- Lenovo Care services at http://lenovo.com/warranty

- 24x7 toll-free support for warranty issues during the warranty period 800-IBM-SEVR (426-7378)

See footnotes for important warranty information

US models announced January 30, 2007

US models withdrawn effective August 2007 or January 2008
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* These models have a 1-year limited warranty.

### Tower
- Business black color with silver accents
- 7.1" W X 17.5" D X 15.4" H
- 180mm W X 445mm D X 392mm H
- 20.1 to 22.5 lb (9.1 to 10.2 kg)
- Handle on top front
- Thumbwheel for removal of side covers
- Touchless entry

### Chipset
- NVIDIA GeForce 6100 C51g chipset
- Includes graphics controller, support for PCI Express x1 slot, PCI Express x16 slot, PCI 2.3 slots / NVIDIA MCP51 south bridge for SATA300, ATA-133 EIDE, USB, Low Pin Count interface / Winbond W83627EHG Super I/O

### Security
- One lock to secure both cover and entire system in fixed object:
  - Padlock loop (in rear for opti padlock)
  - No security slot (in rear for optional Kensington Microsaver cable)
  - No keylock
  - Power-on password
  - Administrator password
  - Boot sequence control
  - Boot without keyboard, mouse, diskette
  - Unattended start mode
  - Hard disk I/O control
  - Serial port I/O control
  - Parallel port I/O control

### Limited Warranty
1. 1-year parts and labor
2. International Warranty Service:
   - Customer Replaceable Unit (CRU)
   - Parts are available on site service, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
3. Onsite service upgrade options (in eligible locations):
   - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0541)
   - 3-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0542)
4. Post-warranty maintenance services:
   - 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0541)
   - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
5. Lenovo Care services at http://www.lenovo.com/warranty
6. 24x7 toll-free support for warranty issues during the warranty period 800-IBM-SERV (426-7378)

See footnotes for important warranty information
US models announced April 24, 2007
US models withdrawn effective January 2008

© Lenovo (SG2-5) January 2008
Partial list of accessories supported on
- Lenovo 3000 J100
- Lenovo 3000 J105
- Lenovo 3000 J110
- Lenovo 3000 J115

Memory
SiS or VIA chipset types 8253, 8258 only:
- 512MB PC3200 CL3 NP DDR1 UDIMM 73P2686
- 1GB PC3200 CL3 NP DDR1 UDIMM 22P9272

Intel or NVIDIA chipset types 8255, 8258, 7387, 7393 only:
- 512MB PC2-5300 CL5 NP DDR2 UDIMM 73P4983 ann 06/28/05
- 1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 ann 06/28/05

Optical
- 16X Max1 DVD-ROM (black) 22P6950
- 48X/32X/16X Max1 CD-RW/DVD-ROM Combo drive (black) 73P3300 ann 04/06/04
- Super Multi-Burner DL DVD±RW EIDE Drive 41N5581 ann 05/30/06

Storage and removable storage
- 40GB Serial ATA150 Disk (7200 rpm) 22P7185
- 80GB Serial ATA150 Disk (7200 rpm) 09N4253 ann 05/19/03
- 160GB Serial ATA150 Disk (7200 rpm) 09N4254 ann 05/19/03
- 250GB Serial ATA150 Disk (7200 rpm) 41N3015 ann 01/24/06
- 500GB Serial ATA150 Disk (7200 rpm) 43R1990 ann 11/06/07
- USB Portable Diskette Drive 05K9276 ann 06/05/00
- USB 2.0 Essential Memory Key 1GB 41U4940 ann 01/23/07
- USB 2.0 Essential Memory Key 2GB 41U4944 ann 01/23/07
- USB 2.0 Security Memory Key 1GB 41U5118 ann 07/17/07
- USB 2.0 Security Memory Key 2GB 41U5119 ann 07/17/07
- USB 2.0 Security Memory Key 4GB 41U5120 ann 07/17/07
- USB 2.0 CD-RW/DVD-ROM Combo Drive II 40Y8637 ann 01/05/06
- USB 2.0 Portable 80GB Hard Disk 41N8378 ann 04/17/07
- USB 2.0 Portable 120GB Hard Disk 41N8379 ann 04/17/07
- USB 2.0 Super Multi-Burner Drive 41N5565 ann 01/23/07

Graphics
- J110 and J115 Tower models support up to 75 watt max:
  - None

Keyboard
- Preferred Pro USB Keyboard 73P5220 ann 06/21/05
- Preferred Pro Full Size PS/2 Keyboard 31P7415 ann 06/04/02
- Enhanced Wireless Keyboard and Mouse 73P4067 ann 12/06/04

Mouse
- USB Optical Wheel Mouse 06P4069 ann 05/21/03
- Optical 3-Button ScrollPoint® Mouse 31P7405 ann 08/27/02
- Lenovo Laser Mouse (PS/2) 41U3074 ann 01/23/07

Multimedia
- USB 2.0 Lenovo Multimedia Headset 40Y8518 ann 06/27/06
- USB 2.0 Lenovo Webcam 40Y8519 ann 08/29/06

Power and Cables
- Belkin 7-Outlet Surge Protector 31P7657

Data/Video Projectors
- Lenovo M500 Projector 0037A05 ann 02/28/06

Security
- USB GemPlus GemPC Smart Card Reader 41N3040 ann 02/21/06

Monitors
- Lenovo E75 17" CRT Monitor (16.0" vis) 6307BTN ann 01/16/07
- ThinkVision L115 15" LCD Monitor 9165AC6 ann 10/23/07
- ThinkVision L171i 17" LCD Monitor 9227AD1 ann 10/23/07
- ThinkVision L171p 17" LCD Monitor 9417HC2 ann 10/31/06
- ThinkVision L190x 19" LCD Monitor 4439HB2 ann 10/23/07
- ThinkVision L193p 19" LCD Monitor 4431HB2 ann 10/23/07
- ThinkVision L194 Wide 19" LCD Monitor 4434HB6 ann 10/23/07
- ThinkVision L220x Wide 22" LCD Monitor 4433HB2 ann 10/23/07

Monitor Accessories
- ThinkVision USB Soundbar 40Y7616 ann 08/23/05
- Kensington® Cable Lock from Lenovo 73P2582 ann 12/29/03
- Radial Arm 19K4464 ann 05/05/00

Other accessories at http://lenovo.com/accessories
Accessories Guide at pdf lenovo.com/accessoriesguide

Need to buy accessories no longer marketed by Lenovo? See www.itxchange.com/lenovo for the Options Continuation Program.

Lenovo Care maintenance services
- Onsite service upgrade options (in eligible locations):
  - 2-year Lenovo Onsite Repair 9x5, Next Business Day 41K0541
  - 3-year Lenovo Onsite Repair 9x5, Next Business Day 41K0542

Post-warranty maintenance services:
- 1-year Lenovo Onsite Repair 9x5, Next Business Day 41K0543
- 2-year Lenovo Onsite Repair 9x5, Next Business Day 41K0544

Lenovo Care maintenance services at http://lenovo.com/warranty
<table>
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### Positioning

**Processor**
- Excellent performance at competitive prices
- **Intel® Celeron® Processor 420** with single-core,
- Intel 64 Technology, Execute Disable Bit, 800MHz bus, and 512KB L2 cache or
- **Intel Pentium® Dual-Core Processor E2140** or **E2160** with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or
- **Intel Core™ 2 Duo Processor E4400** or **E4500** with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 2MB shared L2 cache

### Implementation

- **Power supply**
- **Mouse**
- **Keyboard**
- **Modem**
- **Rear audio ports**
- **Rear ports**
- **Rear audio ports**
- **Audio**
- **External speakers**
- **Internal speaker**
- **Ethernet**
- **Modem**
- **Keyboard**
- **Mouse**
- **Power supply**

### Graphics

**Intel Graphics Media Accelerator 950 (GMA 950)**
- integrated graphics in 95GC, uses main memory (up to 256MB), one 15-pin analog D-sub connector
- supports optional ADD2 adapter but not dual independent display

### Chipset

**Intel 945GC Express Chipset**
- I/O Controller Hub 7 (ICH7) for SATA300, ATA-100 IDE, PCI Express x1, PCI 2.3, USB, LPC bus / ITE Tech IT8718 Super I/O

### Front ports

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

### Rear ports

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

### Audio

- Microphone-in (mono), line-in (stereo), line-out (stereo), [all 3.5mm]

### External speakers

- None

### Internal speaker

- None

### Modem

- None

### Keyboard

- Optical Wheel Mouse (USB only), 400 dpi, black

### Mouse

- Optical Wheel Mouse (USB only), 400 dpi, black

### Power supply

- 280 watts, universal, manual switch

### Preload with Windows XP Professional

- **Microsoft® Windows® XP Professional**
- **Preloaded**
  - Lenovo Care™ Tools
  - Rescue and Recovery™
  - System Update
  - Password Manager
  - Norton Internet Security™
  - Windows Live Search
  - Picasa from Google
  - Diskeeper Home
  - Corel® Small Business Center™ with WordPerfect Office 12
  - Corel Photo Album Starter™ 6
  - Microsoft Office 2007 Trial
  - InterVideo WinDVD (combo, DVD, DVD±RW)

### Security

- One lock to secure both cover and entire system to fixed object:
  - Padlock loop (in rear for optional padlock)
  - Security slot (in rear for optional Kensington® Microsaver® cable)
  - Administrator password
  - Boot sequence control
  - Boot without keyboard, mouse, diskette
  - Serial port I/O control
  - Parallel port I/O control

### Limited Warranty

- 1-year parts and labor
- International Warranty Service®
- Customer Replaceable Unit (CRU) parts are available on site service®, 8 am - 5 pm, Mon - Fri coverage excluding holidays,
  - next business day response time
- Onsite service upgrade options (in eligible locations)
- 1-year LOR 9x5, Next Business Day (Lenovo Care® part number 41K0541)
- 3-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0542)
- Post-warranty maintenance services:
  - 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
  - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty
- 24 hour x 7 day® toll-free support during the warranty period via 800-426-7378

See footnotes for important warranty information

US models announced July 3, September 25, October 9, or November 6, 2007
US models withdrawn effective March 2008

© Lenovo (ANDC 1-1) May 2008
## Lenovo™ 3000 J200 (9690) - Vista® - withdrawn

**Personal Systems Reference (PSREF)**

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### Positioning

- Processor: Intel® Celeron® Processor 420 with single-core, Intel 64 Tech, Execute Disable Bit, 800MHz bus, and 512KB L2 cache or Intel Pentium® Dual-Core Processor E2140 or E2160 with dual-core, Intel 64 Technology, Execute Disable Bit, 800MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo Processor E4300 or E4400 with dual-core, Intel 64 Technology, Execute Disable Bit, 800MHz system bus, and 2MB shared L2 cache.  
- Memory: 512MB or 1GB std / 2GB max / PC2-4200 DDR2, non-parity, dual-channel capable, two 240-pin DIMM sockets; Italics: standard memory in both slots; no sockets available; Non-Italics: standard memory in one slot; one socket available.

### Graphics

- Intel® Graphics Media Accelerator 950 (GMA 950), integrated graphics, Intel 945GC Express Chipset.
- NVIDIA® GeForce 7300LE, PCI Express x16 adapter, 128MB DDR2 memory, one DMS-59 connector for dongle with 15-pin analog D-sub and DVD-I connector, S-Video out for TV-out, dual head support.
- IBM® Integrated Multimedia with a 9-in-1 media reader, occupies diskette drive bay, internal USB 2.0.

### Chipset

Intel® 915GC Express Chipset; I/O Controller Hub 7 (ICH7) for SATA300, ATA-100 IDE, PCI Express x1, USB, LPC bus / ITE Tech® IT8718 Super I/O.

### Front ports

- Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm).
- Four USB 2.0, one 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45, monitor 15-pin).

### Rear ports

- Microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm].
- High Definition (HD) audio, AD1988A codec.
- Two USB 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm).

### Security

- One lock to secure both cover and entire system to fixed object: Padlock loop (in rear for opt padlock).
- Security slot (in rear for optional Kensington® Microsaver® cable).
- Administrator password.
- Boot sequence control.
- Boot without keyboard, mouse, diskette.
- Serial port I/O control.
- Parallel port I/O control.

### Limited Warranty

- 1-year parts and labor International Warranty Service®
- Customer Replaceable Unit (CRU) parts are available with onsite service®, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time.
- Onsite service upgrade options (in eligible locations): 2-year LOR 9x5, Next Business Day (Lenovo Care® part number 41K0541).
- 3-year LOR 9x5, Next Business Day (Lenovo Care® part number 41K0542).
- Post-warranty maintenance services®: 1-year LOR 9x5, Next Business Day (Lenovo Care® part number 41K0543).
- 2-year LOR 9x5, Next Business Day (Lenovo Care® part number 41K0544).
- Lenovo Care services at http://lenovo.com/warranty.
- 24 hour x 7 day® toll-free support during the warranty period via 800-426-7378.

### Preloaded operating system


### Preloaded applications®

- Lenovo Care® Tools
- Rescue and Recovery®
- System Update
- Password Manager
- Lenovo Multimedia Center
- Norton Internet Security® (90 days of virus definitions)
- PC-Doctor® (diagnostics)
- Network Magic®
- Adobe® Reader
- Windows Live™ Toolbar
- Windows Live Search
- Picasa from Google
- Diskeeper® Home
- Except Model 23U: Core® Small Business Center® with Windows® Office 12
- QuickBooks® Financial Center
- Microsoft Office 2007 Trial
- Earthlink Trial (Vista Home Basic, Vista Home Premium)

See footnotes for important warranty information.
### Lenovo 3000 J205 (9686) - XP Pro - withdrawn

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### Positioning
- Excellent performance at competitive prices
- AMD Athlon™ 64 3800+ with single-core, integrated L1/L2 cache, AMD64, integrated DDR2 memory controller, and virtualization technology
- AMD Athlon™ 64 X2 4400+, 4400+, or 4800+ with dual-core, integrated L1 cache, AMD64, integrated DDR2 controller, and virtualization technology

### Implementation
- Processor in 940-pin PGA package in Socket AM2

### Memory
- 512MB or 1GB std. 8GB max²
- PC-25300 667MHz DDR2, non-parity, dual-channel capable, four 240-pin DIMM sockets
- Non-parity: standard memory in one socket; three sockets available

### Graphics
- ATI® Radeon™ X1250, integrated graphics in R5690, uses main memory, one 15-pin analog D-sub connector, optional PCI Express x16 adapter can support two monitors

### SATA disk
- 80GB, 160GB or 320GB, SATA300, 7200 rpm

### SATA controller
- Serial ATA, 300MB/sec SATA300, integrated in SB600 south bridge, four SATA connectors

### SATA DVD
- Some: DVD-ROM DL SATA150 16-48X Max² Drive (41N5618)
- Some: CD-RW/DVD-ROM Combo SATA150 Drive (4IN5619)
- Some: Super Multi-Burner DL DVD:RW SATA150 Drv (4IN620)

### EIDE controller
- Enhanced IDE, ATA-133, integrated in SB600, 1 EIDE connector on planar

### Diskette drive
- None

### Media reader
- None

### Chipset
- AMD 690G Chipset; I/O Controller Hub SB600 for SATA300, ATA-133 IDE, PCI Express x1, PCI Express x16, PCI 2.3, USB, LPC bus / Winbond® W83627DGH Super I/O

### Preloaded operating system⁶
- Microsoft® Windows® XP Professional

### Preloaded applications⁷ (only some listed)
- Lenovo Care™ Tools
- Rescue and Recovery™
- System Update
- Password Manager
- Norton Internet Security™
  (90 days of virus definitions)
- PC-Doctor® (diagnostics)
- Adobe® Reader
- Windows Live™ Toolbar
- Picasa from Google
- Diskkeeper® Home
- Corel® Small Business Center™ with WordPerfect® Office 12
- Corel Photo Album Starter™ 6
- Microsoft Office Trial
- InterVideo WinDVD (combo, DVD, DVD:J:RW)

### Accessories
- 1GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2001
- 2GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2002
- Multi-Burner DL DVD SATA300 Drive 41N5620
- 160GB Serial ATA 300 Disk (7200 rpm) 09N4254
- 250GB Serial ATA 300 Disk (7200 rpm) 41N3015
- 500GB Serial ATA 300 Disk (7200 rpm) 43R1990
- USB Portable Diskette Drive 05K9276
- USB 2.0 Essential Memory Key 2GB 41A9494
- USB 2.0 Security Memory Key 2GB 41J5119
- USB 2.0 Security Memory Key 4GB 41J5120
- USB 2.0 Portable 80GB Hard Disk 41N8378
- USB 2.0 Portable Memory Key 2GB 41N8379
- USB 2.0 Super Multi-Burner Drive-LS 41N5565
- Preferred Pro Full Size PS/2 Keyboard 31P7415
- Wireless Kbd & Opt Mouse (via USB) 73P4067
- USB 2.0 Portable Hard Disk Drive 40Y8518
- USB 2.0 Lenovo Multimedia Headset 40Y8519
- ThinkVision® L193p 19" LCD Monitor 434H8B
- ThinkVision® L1914 Wide 19" LCD Monitor 443H6B
- ThinkVision® L220x Wide 22" LCD Monitor 443H8B
- Other accessories at http://lenovo.com/accessories

### Tower
- Business black and silver bezel
- 6.9" W X 16.7" D X 16.1" H
- 175mm W X 424mm D X 410mm H
- 22.0 lb (10.0 kg)
- Handle on top front
- Toolless cover removal
- Toolless disk, diskette drive, optical drive removal
- Toolless adapter retention

### Security
- Security chip (see information on left)
- One lock to secure both cover and entire system to fixed object:
  - Padlock (in rear for opt padlock)
  - Security slot (in rear for opational)
  - Kensington® Microsaver® cable
  - Power-on password
  - Administrator password
  - Boot sequence control
  - Boot without keyboard, mouse, diskette, optical drive, floppy diskette drive
  - Unattended start mode
  - Serial port I/O control
  - Parallel port I/O control

### Onsite service upgrade options
- Post-warranty maintenance services:
  - Limited Warranty¹
  - 1-year parts and labor
  - International Warranty Service²
  - Customer Replaceable Unit (CRU) parts are available with onsite service²
  - 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
  - Onsite service upgrade options (in eligible locations):²
  - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0541)
  - 3-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0542)
  - Post-warranty maintenance services²
  - 1-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0543)
  - 2-year LOR 9x5, Next Business Day (Lenovo Care part number 41K0544)
  - Lenovo Care services at http://lenovo.com/warranty
  - 24 hour x 7 day² toll-free support during the warranty period²

See footnotes for important warranty information
© Lenovo
US models withdrawn effective March 2008
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Positioning: Excellent performance at competitive prices

Processor: AMD Athlon™ 64 X2 4000+, 4400+, or 4800+ with dual-core, integrated L1/L2 cache, AMD64, integrated DDR2 controller, and virtualization technology

Implementation: Processor in 940-pin PGA package in Socket AM2

Memory: 1GB std, 8GB max; PC2-5300 667MHz DDR2

Graphics: ATI™ Radeon™ X1250, integrated graphics in R690, uses main memory, one 15-pin analog D-sub connector, optional PCI Express x16 adapter can support two monitors

SATA disk: 160GB or 320GB SATA300, 7200 rpm

SATA controller: Serial ATA, 300MB/sec SATA300, integrated in SB600 south bridge, four SATA connectors

SATA Combo: Some: CD-RW/DVD-ROM Combo SATA150 Drive (41N5619)

SATA DVD±RW: Some: Multi Burner DL DVD±RW SATA150 Drive (41N5620)

EIDE controller: Enhanced IDE, ATA-133, integrated in SB600, 1 IDE connector on planar

Diskette drive: None

Media reader: 9-in-1 media reader, occupies diskette drive bay, internal USB 2.0

Chipset: AMD 690G Chipset: I/O Controller Hub SB600 for SATA300, ATA-133 EIDE, PCI Express x1, PCI Express x16, USB, LPC bus / Winbond® W83627DHC 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), and Ethernet (RJ-45), monitor (VGA)

Rear audio ports: High Definition (HD) audio, ALC888 codec

External speakers: Desktop speakers, 2-piece, 6 watts each (4 watts each), black, Lenovo logo

Internal speaker: Internal mono speaker

Ethernet: Gigabit ethernet on planar, Marvell® 88E8071, PCIe x1, Wake on LAN®

Modem: Some: 56K V.90

Security chip: Winbond WPCT200 SafeKeeper™ Trusted Platform Module, TCG 1.2-compliant

Keyboard: 104-key Preferred Pro USB Keyboard, black

Mouse: Optical Wheel Mouse (USB only), 400 dpi, black

Power supply: 280 watts, universal, manual switch


Preloaded applications: All models: Vista Premium logo

Lenovo Care™ Tools:
- Rescue and Recovery™
- System Update
- Password Manager

Lenovo Multimedia Center

Norton Internet Security™

Packet Tracer™ (diagonistics)

Network Magic™

Adobe® Reader

Windows Live™ Toolbar

Windows Live Search

Picasa from Google

Kensington® Security slot

PC-Doctor® Home

Corel® Small Business Center™ with WordPerfect® Office 12

QuickBooks Financial Center

Microsoft Office 2007 Trial

EarthLink Trial (Vista Home Premium)

See footnotes for important warranty information

Limited Warranty:

- 1-year parts and labor
- International Warranty Service®

Customer Replaceable Unit (CRU) parts are available with onsite service®, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time

Onsite service upgrade options (in eligible locations)™:
- 2-year LOR 9X5, Next Business Day (Lenovo Care™ part number 41K0543)
- 3-year LOR 9X5, Next Business Day (Lenovo Care part number 41K0542)
- Post-warranty maintenance services: 1-year LOR 9X5, Next Business Day (Lenovo Care part number 41K0544)
- Lenovo Care services at http://lenovo.com/warranty

24 hour x 7 day™ toll-free support during the warranty period via 800-426-7378

Lenovo® - withdrawn

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US models announced August 7 or October 16, 2007
US models withdrawn effective March 2008
Partial list of accessories supported on
- Lenovo 3000 J200 with 945GC chipset
- Lenovo 3000 J205 with 690G chipset

Memory
- 512MB PC2-5300 CL5 NP DDR2 UDIMM 73P4983 ann 06/28/05
- 1GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2001 ann 03/25/08
- 1GB PC2-5300 CL5 NP DDR2 UDIMM 73P4984 ann 06/28/05
- 2GB PC2-5300 DDR2 UDIMM (TopSeller) 43R2002 ann 03/25/08
- 2GB PC2-5300 CL5 NP DDR2 UDIMM 73P4985 ann 09/26/06

Optical
- DVD-ROM DL SATA150 16X-48X Max4 Drive 41N5618 ann 09/26/06
- CD-RW/DVD-ROM Combo SATA150 Drive 41N5619 ann 09/26/06
- Super Multi-Burner DL DVD±ROM SATA Drive 41N6201 ann 09/26/06

Storage and removable storage
- 80GB Serial ATA300 Disk (7200 rpm) 09N4253 ann 05/19/03
- 160GB Serial ATA300 Disk (7200 rpm) 41N3015 ann 01/24/06
- 250GB Serial ATA300 Disk (7200 rpm) 41N3015 ann 01/24/06
- 500GB Serial ATA300 Disk (7200 rpm) 41N3015 ann 01/24/06
- 2GB USB Portable Diskette Drive 05K9276 ann 06/05/00
- 1GB USB Portable Hard Disk 05K9276 ann 06/05/00
- 1GB USB Portable Hard Disk 41N3879 ann 04/17/07
- 2GB USB Portable Hard Disk 41N3879 ann 04/17/07
- 2GB USB Super Multi-Burner Drive 41N5863 ann 02/23/07

Graphics
- J200 Tower 9690 with 945GC models support up to 75 watt max:
  ATI Radeon HD 2400 XT 256MB 43R1962 ann 11/06/07
- J205 Tower 9686 with 690G models support up to 75 watt max:
  ATI Radeon HD 2400 XT 256MB 43R1962 ann 11/06/07

Keyboard
- Preferred Pro USB Keyboard 73P5220 ann 06/21/05
- Preferred Pro Full Size PS/2 Keyboard 31P7415 ann 06/04/22
- Wireless Kbd & Opt Wheel Mouse (via USB) 73P4069 ann 12/06/04

Mouse
- Optical Wheel Mouse (USB) 06P4069 ann 05/21/03
- Optical ScrollPoint® Mouse (USB, PS/2) 31P7405 ann 08/27/02
- Laser Tilt Wheel Mouse (USB, PS/2) 41U3074 ann 01/23/07

Multimedia
- USB 2.0 Lenovo Multimedia Headset 40Y8518 ann 06/27/06
- USB 2.0 Lenovo Webcam 40Y8519 ann 08/29/06

Power and Cables
- Belkin 7-Outlet Surge Protector 31P7657

Security
- Kensington® Cable Lock from Lenovo 73P2582 ann 12/29/03
- USB GemPlus GemPC Smart Card Reader 41N3040 ann 02/21/06

Monitors
- Lenovo E75 17" CRT Monitor (16.0" vis) 6307BTN ann 01/16/07
- ThinkVision L171 17" LCD Monitor 9165AC6 ann 10/23/07
- ThinkVision L171p 17" LCD Monitor 9417HC2 ann 10/31/06
- ThinkVision L190x 19" LCD Monitor 443HBB2 ann 10/23/07
- ThinkVision L193p 19" LCD Monitor 443HBA2 ann 10/23/07
- ThinkVision L194 Wide 19" LCD Monitor 443HBA2 ann 10/23/07
- ThinkVision L220x Wide 22" LCD Monitor 443HBA2 ann 10/23/07

Monitor Accessories
- ThinkVision USB Soundbar 40Y7616 ann 08/23/05
- Kensington Cable Lock from Lenovo 73P2582 ann 12/29/03
- Radial Arm 19K4464 ann 05/05/00

Medialess License Key (MLK)
- Microsoft Office 2007 Basic, English 43R1528 ann 01/31/07
- Microsoft Office 2007 Small Business, English 43R1534 ann 01/31/07
- Microsoft Office 2007 Professional, English 43R1531 ann 01/31/07

Other accessories at http://lenovo.com/accessories
Accessories Guide at pdf lenovo.com/accessoriesguide
Need to buy accessories no longer marketed by Lenovo? See www.itxchange.com/lenovo for the Options Continuation Program.

Lenovo Care maintenance services
- Onsite service upgrade options (in eligible locations): 7
  - 2-year Lenovo Onsite Repair 9x5, Next Business Day 41K0541
  - 3-year Lenovo Onsite Repair 9x5, Next Business Day 41K0542
- Post-warranty maintenance services: 6
  - 1-year Lenovo Onsite Repair 9x5, Next Business Day 41K0543
  - 2-year Lenovo Onsite Repair 9x5, Next Business Day 41K0544

Lenovo Care maintenance services at http://lenovo.com/warranty

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### Lenovo™ 3000 K100 (10005) - withdrawn

#### Personal Systems Reference (PSREF)

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<th>Processor</th>
<th>GHz</th>
<th>L2 cache</th>
<th>Core Memory</th>
<th>Media reader</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>Intel Viiv</th>
<th>Mode</th>
<th>TV tuner</th>
<th>Power dial</th>
<th>Remote control</th>
<th>Vista preload</th>
<th>Avail date</th>
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<tbody>
<tr>
<td>57-061334 4xS</td>
<td>4x5</td>
<td>Pentium4 E2140</td>
<td>1.60</td>
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<td>Dual</td>
<td>2GB</td>
<td>8-in-1</td>
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<td>GMA</td>
<td>Mod</td>
<td>Pwr</td>
<td>Remote</td>
<td>Home Prem</td>
<td>Oct 07</td>
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<td>57-061308 4xS</td>
<td>4x5</td>
<td>Core 2 Duo E6550</td>
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<td>2GB</td>
<td>8-in-1</td>
<td>500GB</td>
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<td>GMA</td>
<td>Viiv</td>
<td>Mod</td>
<td>Pwr</td>
<td>Remote</td>
<td>Home Prem</td>
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<tr>
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<td>Quad</td>
<td>3GB</td>
<td>8-in-1</td>
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<td>Viiv</td>
<td>TV</td>
<td>Pwr</td>
<td>Remote</td>
<td>Home Prem</td>
</tr>
</tbody>
</table>

- **Power Dial on front to adjust power and energy for three modes (cool, auto, and turbo)**

**Processor**

- Intel® Dual-Core Processor E2140 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, and 1MB shared L2 cache or Intel Core™ 2 Duo Processor E6550 with dual-core, Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, TXT, and 1333MHz system bus with 4MB shared L2 cache or Intel Core™ 2 Quad Processor Q6600 with quad-core (dual-core on dual-die), Intel 64 Technology, Virtualization Technology, Execute Disable Bit, EIST, and 1066MHz system bus with 4MB shared L2 cache on each die, Processor in FC-LGA6 package in LGA775 socket.

**Implementation**

- 2GB or 3GB std, 8GB max (Vista only supports 3.2GB max).

**Memory**

- 2GB or 3GB std, 8GB max (Vista only supports 3.2GB max).

**Graphics**

- Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G33, uses main memory, one 15-pin analog D-sub connector.

**SATA disk controller**

- Serial ATA, 3.0Gb/s, integrated in ICH9R, supports RAID 0, 1, 5, 10.

**SATA optical drives (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.

**Diskette drive**

- None.

**Media reader**

- 8-in-1 media reader, internal USB 2.0.

**Chipset**

- Intel G33 Express Chipset: I/O Controller Hub 9 RAID (ICH9R) for SATA 3.0Gb/s with RAID 0/1/5/10 support, PCI Express x1, PCI Express x16, 1066MHz system bus with 4MB shared L2 cache on each die, Processor in FC-LGA6 package in LGA775 socket.

**Front ports**

- Two USB 2.0, microphone (mono, 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 (15-pin).

**Rear audio ports**


**Audio**

- High Definition (HD) audio, ADI1988 codec.

**External speakers**

- None.

**Internal speaker**

- None.

**Ethernet**

- 10/100 ethernet on planar, Intel 82566DC (PHY/MAC).

**Modem**

- Some: 56K10 V.90 data/fax soft modem, PCI adapter.

**Security chip**

- None.

**Intel Viiv**

- Some: Intel Viiv™ technology for the home.

**TV tuner**

- Some: tuner high definition ATSC/QAM digital TV plus analog TV, Hauppauge WinTV-HVR-1800, PCI Express x1.

**Remote control**

- Philips Vista MCE remote control (40-button).

**Ira receiver**

- Philips Vista MCE iRa receiver.

**Power dial**

- Power dial (with breathing lights) to adjust power and energy for three modes (green light for cool mode, blue light for auto mode, and red light for turbo mode).

**Keyboard**

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

**Mouse**

- Optical Wheel Mouse (USB), 400 dpi.

**Power supply**

- 280 watts, universal, manual switch.

**Limited Warranty**

- 1-year parts and labor
- International Warranty Service
- Customer Replaceable Unit (CRU)
- parts are available on site service, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- Lenovo Care services at http://lenovo.com/warranty
- 24 hour x 7 day toll-free support during the warranty period via 1-877-453-6686

*See footnotes for important warranty information

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(Personal Systems Reference (PSREF))

**Available in Sata bays:**

- Rear ports: Four Usb 2.0, one serial (9-pin), parallel (25-pin), keyboard (PS/2), mouse (PS/2), Ethernet (RJ-45), monitor (15-pin).
- Front ports: Two Usb 2.0, microphone (mono, 3.5mm), headphone (stereo, 3.5mm).

**Security**

- Chassis lock.
### System Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Slot x bay</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>Modem</th>
<th>Monitor</th>
<th>Camera</th>
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<td>16-in-1</td>
<td>160GB†DVD±RW GMA 950</td>
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<td>D185 HD</td>
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<td>XP Home</td>
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<td>160GB†DVD±RW GMA 950</td>
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<td>None</td>
<td>None</td>
<td>XP Home</td>
<td>Apr 09</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

### Memory
- **1GB std**, 2GB max*, one 240-pin DIMM socket
- **57091128**: PC2-5300 667MHz DDR2, non-parity
- **others**: PC2-6400 800MHz DDR2, non-parity

### Graphics
- **Intel Graphics Media Accelerator 950 (GMA 950)**, integrated graphics in 945GC, uses main memory, one 15-pin analog VGA DB-15 connector

### SATA disk
- **160GB**, SATA 3.0Gb/s, 7200 rpm
- **SATA controller**: Serial ATA, SATA 3.0Gb/s, integrated in ICH7
- **SATA DVD±RW**: Multi-Burner DL DVD±RW SATA 3.0Gb/s Drive
- **SATA cables**: Two SATA cables (each 1-drop to device), two SATA connectors
- **EIDE controller**: None
- **EIDE cables**: None
- **Diskette drive**: None
- **Media reader**: Some: 16-in-1 media reader

### Chipset
- **Intel 945GC Express Chipset**, I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, ethernet MAC, PCI 2.3, USB, LPC bus), ITE Tech IT8718 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), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)
- **Line-in (stereo, 3.5mm)**, line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)

### Audio
- **High Definition (HD) audio**, ALC662 codec
- **Internal speaker**: None
- **External speakers**: None
- **Modem**: None
- **Security chip**: None
- **Ethernet**: 10/100 ethernet on planar, Realtek® RTL8102E

### Monitor
- **104-key standard keyboard (PS/2 connector)**, 400 dpi

### Mouse
- **Optical Wheel Mouse (USB connector)**

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

---

### Preloaded Operating System
- **Some**: Genuine Windows® XP Home Edition
- **Some**: Genuine Windows Vista® Home Basic 32
- **Vista model**: Vista Basic logo

### Preloaded Applications
- Lenovo® Rescue System
- Driver and Application Installation
- Trend Micro™ PC-cillin™ Internet Security 2008 (Windows Live™ Toolbar)
- Microsoft® Office 2007 Trial (60-day) (Vista model only)
- 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 (43R8882)
  - 24x7* toll-free support for warranty issues during the warranty period via 877-453-6686

---

See footnotes for important warranty information

US models announced Jan 13, March 17, or April 22, 2009;
US models withdrawn effective April 2010

© Lenovo (SCL2-1) April 2010
**Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Atom™ processor 230 with single-core, Hyper-Threading technology, Intel 64 Technology, Execute Disable Bit, 533MHz system bus, and 512KB L2 cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation</td>
<td>Processor in Micro-FCBGA package in BGA437 socket</td>
</tr>
<tr>
<td>Memory</td>
<td>1GB or 2GB std, 2GB max, one 240-pin DIMM socket; Some: PC2-6400 800Mhz DDR2, non-parity; Some: PC2-5300 667Mhz DDR2, non-parity</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel Graphics Media Accelerator 950 (GMA 950), integrated graphics in 945GC, uses main memory, one 15-pin analog VGA DB-15 connector</td>
</tr>
<tr>
<td>SATA disk</td>
<td>160GB, 320GB, 1TB, SATA 3.0Gb/s, 7200 rpm</td>
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<tr>
<td>SATA controller</td>
<td>Serial ATA, SATA 3.0Gb/s, integrated in ICH7</td>
</tr>
<tr>
<td>SATA DVD</td>
<td>Some: DVD-ROM DL SATA 1.5Gb/s 16X-48X Max</td>
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<tr>
<td>SATA DVD:RW</td>
<td>Some: Multi-Burner DL DVD:RW SATA 1.5Gb/s Drive</td>
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<td>SATA cables</td>
<td>Two SATA cables (each 1-drop to device), two SATA connectors</td>
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<td>EIDE controller</td>
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<tr>
<td>EIDE cables</td>
<td>None</td>
</tr>
<tr>
<td>Diskette drive</td>
<td>None</td>
</tr>
<tr>
<td>Media reader</td>
<td>Some: 16-in-1 media reader</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel 945GC Express Chipset, I/O Controller Hub 7 (ICH7) (SATA 3.0Gb/s, ethernet MAC, PCI 2.3, USB, LPC bus), ITE Tech® IT8718 Super I/O</td>
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<tr>
<td>Front ports</td>
<td>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</td>
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<tr>
<td>Rear ports</td>
<td>Four USB 2.0, one serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15)</td>
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<tr>
<td>Rear audio ports</td>
<td>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</td>
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<td>Audio</td>
<td>High Definition (HD) audio, ALC662 codec</td>
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<tr>
<td>External speakers</td>
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<tr>
<td>Internal speaker</td>
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<td>Modem</td>
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<tr>
<td>Security chip</td>
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<tr>
<td>Monitor</td>
<td>Some: D185 Wide Flat Panel Monitor</td>
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<tr>
<td>TV tuner</td>
<td>None</td>
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<td>Camera</td>
<td>None</td>
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<tr>
<td>Keyboard</td>
<td>104-key standard keyboard (PS/2 connector)</td>
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<tr>
<td>Mouse</td>
<td>Optical Wheel Mouse (USB connector), 400 dpi</td>
</tr>
<tr>
<td>Power supply</td>
<td>280 watts, universal, manual switch</td>
</tr>
</tbody>
</table>

**Preloaded operating system**
- Some: Genuine Windows® XP Home Edition
- Some: Genuine Windows Vista® Home Basic
- Vista models: Vista Basic logo

**Preloaded applications** (only some listed)
- Lenovo® Rescue System
- Driver and Application Installation
- Trend Micro® PC-cillin™ Internet Security 2008
- Windows Live™ Toolbar
- Microsoft® Office 2007 Trial (60-day) (Vista models only)
- 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 (43R8882)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

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

See footnotes for important warranty information
US models announced Jan 13, March 17, September 10, or December 17, 2009;
US models withdrawn effective April 2010

© Lenovo (SCL2-2) April 2010
### Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

### Processor

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</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>Modem</th>
<th>Camera</th>
<th>Vista preload</th>
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</table>

### Memory

- Intel® Pentium® Processor E2200, E2220, or E5200 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus.
- E2200/E2220: 1MB L2 cache; E5200: 2MB L2 cache or Intel Core™ 2 Duo Processor E7200 or E7400 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, and 1666MHz system bus with 3MB L2 cache.

### Graphics

- Intel Graphics Media Accelerator 3100 (GMA 3100), integrated graphics in G31, uses main memory, one 15-pin analog D-sub connector.
- Intel Graphics Media Accelerator 3100 (GMA 3100), 32GB, 500GB, or 640GB, SATA 3.0Gb/s, 7200 rpm.
- Intel Graphics Media Accelerator 3100 (GMA 3100), Serial ATA, SATA 3.0Gb/s, integrated in ICH7.
- Intel Graphics Media Accelerator 3100 (GMA 3100), Multi-Burner D/L DVD±RW SATA 1.5Gb/s Drive.
- Intel Graphics Media Accelerator 3100 (GMA 3100), Two SATA cables (each 1-drop to device), four SATA connectors.
- Intel Graphics Media Accelerator 3100 (GMA 3100), Some: 16-in-1 media reader.
- Intel Graphics Media Accelerator 3100 (GMA 3100), PCI-Express x16, 640GB DVD±RW GMA 3100 None None Prem 64 Mar 09

### Chipset

- Intel G31 Express Chipset (PCI Express x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), Winbond® W83627DHG or ITE Tech® IT8718F Super I/O.
- Intel G31 Express Chipset (PCI Express x16), Front ports Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm).
- Intel G31 Express Chipset (PCI Express x16), Rear ports Four USB 2.0, one serial (9-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15).
- Intel G31 Express Chipset (PCI Express x16), Audio High Definition (HD) audio, ALC662 codec.
- Intel G31 Express Chipset (PCI Express x16), Internal speaker None.
- Intel G31 Express Chipset (PCI Express x16), Ethernet 10/100 ethernet on planar, Intel 82562GZ (PHY/MAC).
- Intel G31 Express Chipset (PCI Express x16), Modem None.
- Intel G31 Express Chipset (PCI Express x16), Security chip None.
- Intel G31 Express Chipset (PCI Express x16), TV tuner None.
- Intel G31 Express Chipset (PCI Express x16), Camera None.
- Intel G31 Express Chipset (PCI Express x16), Keyboard 104-key standard keyboard (PS/2 connector).
- Intel G31 Express Chipset (PCI Express x16), Mouse Optical Wheel Mouse (USB connector), 400 dpi.
- Intel G31 Express Chipset (PCI Express x16), Power supply 280 watts, universal, manual switch.

### 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 (43R8882) avail via 877-453-6686.
### Lenovo® H210 (5355) - withdrawn

<table>
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<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
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<th>L2 cache</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>Vista preload</th>
<th>Avail date</th>
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</table>

### Lenovo® Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

**Processor**
- Intel® Pentium® Processor E2200, E2220, E5200, or E5300 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 800MHz system bus, E2200/E2220: 1MB L2 cache, E5200/E5300: 2MB L2 cache or Intel Core™ 2 Duo Processor E7400 or E7500 with dual-core, Intel 64 Technology, Execute Disable Bit, EIST, 1066MHz system bus, and 3MB L2 cache.

**Implementation**
- Processor in FC-LGA6 or FC-LGA8 package in LGA775 socket.

**Memory**
- 2GB, 3GB, or 4GB std. 4GB max®, two 240-pin DIMM sockets;
- Italics: standard memory in both sockets; no sockets available;
- Non-italics: standard memory in one socket; one socket available;
- Some: PC2-6400 800MHz DDR2R, non-parity, dual-channel capable;
- Some: PC2-5300 667MHz DDR2R, non-parity, dual-channel capable.

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

**SATA disk**
- 250GB, 320GB, 500GB, 640GB, or 1TB, SATA 3.0Gb/s, 7200 rpm

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

**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

**EIDE cables**
- None

**Diskette drive**
- None

**Media reader**
- Some: 16-in-1 media reader

**Chipset**
- Intel G31 Express Chipset (PCI Express® x16), I/O Controller Hub 7 [ICH7] (SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), Winbond® W83627DHG or ITE Tech® IT8718F 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), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)

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

**Modem**
- None

**Security chip**
- None

**TV tuner**
- None

**Camera**
- None

**Keyboard**
- 104-key standard keyboard (PS/2 connector)

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

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

---

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

**Preloaded applications®**
- Lenovo® Rescue System
- Lenovo Healthcare Software
- Microsoft® Office 2007 Trial (60-day)
- VeriFace™
- 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 (43R9882)
- 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 April 2010

© Lenovo (SCL1-2) April 2010
### Lenovo® H215 (0893) - Windows 7 - withdrawn

#### Summary
- **Processor**: AMD® Athlon™ II X2 Processor 240 with dual-core, 4000MHz HyperTransport™ Bus.
- **Memory**: 2GB or 4GB std, 4GB max, dual-channel capable, PC3-8500 1066MHz DDR3.
- **Graphics**: ATI™ Radeon™ 3000, integrated graphics in 760G.
- **SATA disk**: 320GB or 1TB.
- **SATA controller**: Serial ATA, SATA 3.0Gb/s, integrated in SB710.
- **Chipset**: AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support.
- **Tower**: Black bezel with glossy finish.
- **Power supply**: 180 watts, universal, manual switch.

#### Table of Specifications

<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>Memory²</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Power supply</th>
<th>Win7 preload</th>
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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): 3-year Lenovo Onsite Repair (78Y1553)

#### Preloaded operating system
- **Some**: Genuine Windows® 7 Home Premium 32
- **Some**: Genuine Windows 7 Home Premium 64

#### Preloaded applications
- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Microsoft Office 2010 preloaded; purchase product key to activate
- CyberLink Power2Go (DVD±RW)

#### Tower specifications
- Standard configuration: 5.25”, 1.6” high, access, standard optical.
- Optional 16-in-1 media reader:
  - Bay 1: 3.5”, 1” high, no access, standard disk
  - Bay 2: 3.5”, 1” high, no access, optional disk

#### Additional Information
- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

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© Lenovo (SCL4-1) April 2013

See footnotes for important warranty information

US model(s) announced August 25, 2010

US model(s) withdrawn effective April 2013
**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
- **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
- 4GB or 6GB std, 8GB max, PC3-8500 1066MHz DDR3, non-parity, dual-channel capable, four 240-pin DIMM sockets

### Graphics
- Intel Graphics Media Accelerator X4500 (GMA X4500), integrated graphics in G43, uses main memory, DirectX® 10, one 15-pin analog VGA DB-15 connector

### Chipset
- Intel G43 Express Chipset (PCI Express® 2.0 x16), I/O Controller Hub 10 RAID (ICH10R) (SATA 3.0Gb/s, PCI Express x1, ethernet MAC, PCI 2.3, USB, LPC bus), SMSC® SCHS147-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), 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

### Internal speaker
- None

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

### Modem
- None

### Security chip
- None

### TV tuner
- None

### Camera
- None

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

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

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

### Preloaded applications
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus
  - (30 days of virus definitions)
- 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 (43R8882)

Customer support:
- 1-877-453-6686
Lenovo® H320 (4041) - Windows 7 - withdrawn

Personal Systems Reference (PSREF)

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- 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 i3-540 or i3-550 with dual-core, Intel 64, Hyper-Threading Technology, integrated 1333MHz DDR3 memory controller, 4MB cache

Implementation
Processor in LGA1156 socket

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

Graphics
Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX® 10, one 15-pin analog VGA DB-15 connector, one HDMI connector, HDCP

SATA disk
500GB, 640GB or 1TB, SATA 3.0Gb/s, 7200 rpm

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

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

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

EIDE controller
None

EIDE cables
None

Diskette drive
None

Media reader
8-in-1 media reader

Chipset
Intel H55 Express Chipset

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

Rear ports
Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15, HDMI)

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

Wireless
11b/g/n wireless², PCIe x1 adapter

Ethernet
Gigabit ethernet on planar, intel 82578DC

Modem
None

Security chip
None

TV tuner
None

Camera
None

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

Mouse
Optical Wheel Mouse (USB connector), black

Power supply
180 watts, universal, manual switch

Preloaded operating system²
- Genuine Windows® 7 Home Premium 64

Preloaded applications²
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- CyberLink Power2Go (DVD±RW)
- Windows Live Essential
- Microsoft® Office 2010 preloaded; purchase product key to activate

Small Form Factor
- Black bezel with glossy finish
- 3.9" W X 15.7" D X 11.5" H
- 100mm W X 400mm D X 293mm H
- 21.5 lb (9.75 kg) vary by configuration

Bay 1: 5.25", 1.6" high, access, standard optical
Bay 2: 3.5", 0.6" high, access, 8-in-1 media reader
Bay 3: 3.5", 1" high, no access, standard disk

Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0
Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0

* Wireless adapter in slot in some models

Limited Warranty³
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts³, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations)³
- 2-year Lenovo Onsite Repair
  9x5 Next Business Day (78Y1552)
- 3-year Lenovo Onsite Repair
  9x5 Next Business Day (78Y1553)
- 24x7² toll-free support for warranty issues during the warranty period³ via 877-453-6686

See footnotes for important warranty information
US models announced June 11 or August 25, 2010 or March 23, 2011
US models withdrawn effective November 2011

(RD1-1) November 2011
### Lenovo Rescue System provides OneKey recovery without booting into Windows

**Processor**
- **Intel® Core™ i3 Processor i3-540 with dual-core,**
- Intel 64, Hyper-Threading Technology, integrated 1333MHz DDR3 memory controller, 4MB cache or
- **Intel Core i5 processor i5-650 with dual-core,**
- Intel 64, Hyper-Threading Technology, Turbo Boost Technology, TXT, integrated 1333MHz DDR3 memory controller, and 4MB cache

**Implementation**  Processor in LGA1156 socket

**Memory**
- 4GB or 6GB std, 8GB max
- Non-parity, dual-channel capable, four 240-pin DIMM sockets

**Graphics**
- Some: Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX 10.1, NVIDIA PureVideo®, NVIDIA CUDA™, and 4MB cache
- Some: NVIDIA GeForce 310, PCI Express x16, 512MB, DirectX 10.1, NVIDIA PureVideo®, NVIDIA CUDA™

**SATA disk**
- 500GB or 640GB, SATA 3.0Gbps, 7200 rpm

**SATA controller**
- Serial ATA, SATA 3.0Gbps, integrated in chipset

**SATA optical**
- Some: Multi-Burner DL DVD±RW SATA 1.5Gbps 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), two SATA connectors

**EIDE controller**
- None

**EIDE cables**
- None

**Diskette drive**
- None

**Media reader**
- 8-in-1 media reader

**Chipset**
- Intel H55 Express Chipset

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

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

**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

**Internal speaker**
- None

**External speakers**
- None

**Internal wireless**
- None

**External wireless**
- None

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

**Modem**
- None

**Security chip**
- None

**TV tuner**
- None

**Camera**
- None

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

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

**Power supply**
- Some: 180 watts, universal, manual switch
- Some: 250 watts, universal, auto-sensing

### 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 Dynamic Brightness System
- Lenovo Eye Distance System
- CyberLink Power2Go (DVD±RW)
- Windows Live Essential
- Microsoft® Office 2007 Trial (60-day)

### Small Form Factor
- Black bezel with glossy finish
- 3.9" W X 15.7" D X 11.5" H
- 100mm W X 400mm D X 293mm H
- 21.5 lb (9.75 kg) vary by configuration

**Bay ①**: 5.25", 1.6" high, access, standard optical
**Bay ②**: 3.5", 0.6" high, access, 8-in-1 media reader
**Bay ③**: 3.5", 1" high, no access, standard disk

### Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0**
### Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0**

* Wireless adapter in slot in some models
** Graphic adapter 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): 2
- 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 announced September 8, 2010
US models withdrawn effective November 2011

© Lenovo

(RD1-2) November 2011
<table>
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<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Max turbo (GHz)</th>
<th>Memory</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>802.11 wireless</th>
<th>USB3.0</th>
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<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
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<td>G620</td>
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<td>None</td>
<td>250W USB / USB</td>
<td>Prem 64</td>
<td>Feb 12</td>
<td></td>
</tr>
</tbody>
</table>

- **Lenovo Rescue System provides OneKey recovery without booting into Windows**
- **These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)**

**Processor**: Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.60 GHz, 3M Cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller

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

**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, integrated 1333MHz dual-channel DDR3 memory controller**

**Implementation**: Processor in LGA1155 socket

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

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

**Graphics**: Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX® 10, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 models)

**SATA disk**: 500GB, 1TB, or 1.5TB, SATA 3.0Gb/s, 7200 rpm

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

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

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

**EIDE controller**: None

**EIDE cables**: None

**Diskette drive**: None

**Media reader**: 8-in-1 media reader

**Chipset**: Intel H61 Express Chipset

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

**Rear ports**: Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI)

**Audio**: High Definition (HD) audio, ALC662 codec

**External speakers**: None

**Internal speaker**: None

**Wireless**: 11b/g/n wireless®, PCIe x1 adapter

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

**Modem**: None

**Security chip**: None

**TV tuner**: None

**Camera**: None

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

- Some: Full-size keyboard (USB connector), Fn keys, black

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

**Power supply**: Some: 180 watts, universal, manual switch

- Some: 250 watts, universal, auto-sensing

**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 Dynamic Brightness System
- Lenovo Eye Distance System
- Cyberlink PowerDVD (DVD±RW)
- CyberLink Power2Go (DVD±RW)
- 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
  - 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 July 6 or December 21, 2011 or February 29, 2012
US model(s) withdrawn effective April 2013

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(RD2-2) April 2013
# Lenovo® H330 (7780) - Windows 7 (web only models) - withdrawn

**Processor**
- **Intel® Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache),** integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller
- **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, 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, 6M Cache), Turbo Boost Technology 2.0 (up to 3.80 GHz),** integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

**Graphics**
- Some: Intel HD Graphics, integrated graphics in processor, uses main memory, DirectX™ 10, one analog VGA DB-15 connector, one HDMI connector, HDCP
- Some: AMD Radeon™ HD 6450, PCI Express x16, 1GB memory
- Some: AMD Radeon HD 6570, PCI Express x16, 1GB memory

**SATA disk**
- 500GB, 1TB, or 2TB, SATA 3.0Gb/s, 7200 rpm

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

**SATA optical**
- Some: Multi-Burner DL DVD±RW SATA 1.5Gb/s 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), two SATA connectors

**EIDE controller**
- None

**EIDE cables**
- None

**Diskette drive**
- None

**Media reader**
- 8-in-1 media reader

**Chipsset**
- Intel H61 Express Chipset

**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)
- Microsoft® Office 2010 preloaded; purchase product key to activate

**Small Form Factor**
- Black bezel with glossy finish
- 3.9" W X 15.7" D X 11.5" H
- 100nm W X 400mm D X 293mm H
- 21.5 lb (9.75 kg) vary by configuration

**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

---

**Specifications**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>Max turbo (GHz)</th>
<th>Memory</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>802.11 wireless</th>
<th>USB3.0</th>
<th>Power supply</th>
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<th>Win7 preload</th>
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<td>250W USB / USB Prem 64</td>
<td>Feb 12</td>
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**Notes:**
- Intel HD Graphics, integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller
- 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, 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, 6M Cache), Turbo Boost Technology 2.0 (up to 3.80 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

---

**Features:**
- Lenovo Rescue System provides OneKey recovery without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

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**Package Contents:**
- 7780-1JU 2x3 i3-2120 3.30 4+2GB 8-in-1 500GB DVD±RW Intel HD Graphics None None 250W USB / USB Prem 64 Jun 11
- 7780-4JU 2x3 i3-2120 3.30 4GBx1 8-in-1 1TB DVD±RW Intel HD Graphics None None 250W USB / USB Prem 64 Feb 12
- 7780-4KU 2x3 i3-2120 3.30 4GBx2 8-in-1 2TB Blu-ray Intel HD Graphics None None 250W USB / USB Prem 64 Feb 12
- 7780-4LU 2x3 i5-2320 3.00 3.30 4GBx2 8-in-1 2TB DVD±RW Intel HD Graphics None None 250W USB / USB Prem 64 Feb 12
- 7780-4KU 2x3 i5-2320 3.30 4GBx2 8-in-1 2TB Blu-ray Intel HD Graphics None None 250W USB / USB Prem 64 Feb 12

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**Accessories:**
- 7780-4MU 2x3 i7-2600 3.30 3.70 4GBx2 8-in-1 2TB Blu-ray Intel HD Graphics None None 250W USB / USB Prem 64 Feb 12


### Lenovo® C340 - Windows 8 (web only models) - withdrawn

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<th>Memory</th>
<th>Wide-screen display</th>
<th>Touch screen</th>
<th>Camera</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>Color</th>
<th>TV tuner</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>USB3.0</th>
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<td>None</td>
<td>11b/g/n/6</td>
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</table>

- **All-In-One design with 20.0" 16:9 wide screen**
- **Stereo speakers supporting Dolby Advanced Audio V2**
- **Share media on any device from anywhere through Lenovo Cloud**
- **Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment**

**Processor**
- **Intel® Celeron® G540 processor** (2 cores / 2 threads, 2.50GHz, 2MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller
- **Intel Core™ i3-3220 processor** (2 cores / 4 threads, 3.30GHz, 3MB cache), integrated Intel HD Graphics 2500; DDR3 memory controller (up to 1600MHz)
- **Intel Core™ i5-3330S processor** (2 cores / 4 threads, 2.70GHz, 6MB cache), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (up to 3.20GHz)

**Memory**
- 8GB max* / non-partly, PC3-12800 1600MHz DDR3*, two 204-pin SO-DIMM sockets
- *System automatically clocks down for processors with 1066MHz DDR3 memory controller

**SATA DVD:RW**
- DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in

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

**Multi-touch**
- None

**Camera**
- HD720p Camera on top of screen, 1.0-megapixel, fixed focus

**Controls**
- Power on/off, menu, left, right, and display on/off buttons

**Graphics**
- **Intel HD Graphics** or **Intel HD Graphics 2500**, integrated graphics in processor, uses main memory

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

**Multicard reader**
- 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™) Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity)

**Ports**
- Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out
- Side: Two USB 2.0 or optional USB 3.0

**PCIe Mini Card**
- Two PCIe Mini Card slots (one full size and one half size)
- 11b/g/n wireless*, PCIe half Mini Card, Broadcom® BCM94313, Realtek® RTL8188CE, or Atheros® AR9485

**TV tuner**
- None

**Bluetooth**
- None

**Modem**
- None

**Ethernet**
- Gigabit ethernet on planner, Realtek RTL8111F

**Audio support**
- High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2 certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/ microphone jack (3.5 mm), headphone jack (3.5 mm)

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

**Keyboard**
- Some: USB full-size keyboard, black
- Some: USB full-size keyboard, white

**Mouse**
- Some: USB Optical Wheel Mouse, black
- Some: USB Optical Wheel Mouse, white

**Remote control**
- None

**Dimensions**
- (WxHxD) including stand: 19.65" x 15.63" x 7.72"; 499.0mm x 397.0mm x 196.0mm

**Weight**
- From 13.1lb (5.94kg), vary by configuration

**Chassis**
- Front bezel: black color; back bezel: black color

**Stand**
- Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)

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See footnotes for important warranty information

US model(s) withdrawn effective March 2014

Lenovo (LIFO1-1) February 2013

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*See footnotes for important warranty information

US model(s) withdrawn effective March 2014

Lenovo (LIFO1-1) February 2013

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### Product Specifications

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>AMD Accelerated Processor E2-1800 (2 cores, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)</td>
</tr>
<tr>
<td>Memory</td>
<td>8GB max\non-parity, PC3-12800 1600MHz DDR3*, two 204-pin SO-DIMM sockets * System automatically clocks down for processors with 1333MHz DDR3 memory controller</td>
</tr>
<tr>
<td>SATA DVD:RW</td>
<td>DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in</td>
</tr>
<tr>
<td>SATA disk</td>
<td>500GB (7200 rpm) or 1TB (7200 rpm), SATA 6.0Gb/s, 3.5” wide</td>
</tr>
<tr>
<td>Widescreen display</td>
<td>20.0” (508mm) HD+ (1600x900) TFT color, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio</td>
</tr>
<tr>
<td>Camera</td>
<td>HD720p Camera on top of screen, 1.0-megapixel, fixed focus</td>
</tr>
<tr>
<td>Controls</td>
<td>Power on/off, menu, left, right, and display on/off buttons</td>
</tr>
<tr>
<td>Graphics</td>
<td>AMD Radeon HD 7340 graphics, integrated graphics in processor, uses main memory, DirectX® 11</td>
</tr>
<tr>
<td>Chipset</td>
<td>AMD A68 FCH</td>
</tr>
<tr>
<td>Multicard reader</td>
<td>6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity)</td>
</tr>
<tr>
<td>Ports</td>
<td>Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out</td>
</tr>
<tr>
<td>PCIe Mini Card</td>
<td>Two PCIe Mini Card slots (one full size and one half size)</td>
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<tr>
<td>TV tuner</td>
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<td>Bluetooth®</td>
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</tr>
<tr>
<td>Modem</td>
<td>None</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Gigabit ethernet on planar, Realtek RTL8111F</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio™ v2 certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)</td>
</tr>
<tr>
<td>Security</td>
<td>Power-on password, administrator password, security lockhole</td>
</tr>
<tr>
<td>Keyboard</td>
<td>USB full-size keyboard, black</td>
</tr>
<tr>
<td>Mouse</td>
<td>USB Optical Wheel Mouse, black</td>
</tr>
<tr>
<td>Remote control</td>
<td>None</td>
</tr>
<tr>
<td>Dimensions³</td>
<td>(WxHxD) including stand: 19.65” x 15.63” x 7.72”; 499.0mm x 397.0mm x 196.0mm</td>
</tr>
<tr>
<td>Weight²</td>
<td>From 10.78lb (4.89kg), vary by configuration</td>
</tr>
<tr>
<td>Chassis</td>
<td>Front bezel: black or white color; back bezel: black or white color</td>
</tr>
<tr>
<td>Stand</td>
<td>Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)</td>
</tr>
</tbody>
</table>

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

#### Preloaded applications** (only some listed)
- Lenovo® Rescue System
- Lenovo Cloud Storage by SugarSync
- Driver and Application Installation
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- McAfee® Internet Security
- Adobe® Reader®
- Nitro PDF
- CyberLink YouCam
- CyberLink PowerDVD (DVD±RW)
- CyberLink Power2Go (DVD±RW)
- Dolby Advanced Audio V2
- Microsoft Office preloaded; purchase product key to activate
- Education Portal
- Lenovo Support
- AccuWeather
- eBay
- Evernote
- Amazon Kindle
- Rara Streaming
- Lenovo Companion

#### Limited Warranty**
- **1-year parts and labor**
- **Customer Replaceable Unit (CRU) parts only** with limited onsite service for selected parts**
  - 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
- **Service upgrade options** (in eligible locations):
  - 2-year Lenovo 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 model(s) withdrawn effective March 2014

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(LIDO1-1) March 2013
Lenovo C440 (Windows 8) - withdrawn

**Processor**
- Intel® Pentium® G645 processor (2 cores / 2 threads, 2.90GHz, 3MB cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller

**Memory**
- 8GB max, non-parity, PC3-12800 1600MHz DDR3, two 204-pin SO-DIMM sockets
- System automatically clocks down for processors with 1066MHz DDR3 memory controller

**SATA DVD/RW**
- DVD burner, dual-layer support, fixed, removable, 12.7mm, tray-in

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

**Wide-screen display**
- 21.5" (546.1mm) Full HD (1920x1080) WUXGA, LED backlight, 250 nits, 16:9 aspect ratio, 1000:1 contrast ratio

**Camera**
- HD720p Camera, fixed focus

**Chipset**
- Intel HD Graphics in processor, DirectX® 10, uses main memory

**Multicard reader**
- Intel H61 Express Chipset
- 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™, Secure Digital Card, Secure Digital High Capacity, Secure Digital Extended Capacity)

**Ports**
- Rear: Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out
- Side: Two USB 2.0 or optional USB 3.0

**PCIe Mini Card**
- Two PCIe Mini Card slots (one full size and one half size), 11b/g/n wireless®, PCle half Mini Card, Broadcom® BCM94313, Realtek® RTL8188CE, or Atheros® AR9485

**Modem**
- None

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

**Audio support**
- High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced AudioTM v2 certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/microphone jack (3.5 mm), headphone jack (3.5 mm)

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

**Keyboard/Mouse**
- USB full-size keyboard, black
- USB Optical Wheel Mouse, black

**Remote control**
- None

**Dimensions**
- (WxHxD) including stand: 20.95" x 16.02" x 7.72"; 532.0mm x 407.0mm x 196.0mm

**Weight**
- From 14.2lb (6.44kg), vary by configuration

**Stand**
- Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)

---

**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
  - 9x5 Next Business Day
- 24x7 toll-free support for warranty issues during the warranty period® via 877-453-6686

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

**Preloaded applications**
- only some listed
- Traditional Desktop apps
  - Lenovo® Rescue System
  - Lenovo Cloud Storage by SugarSync
  - Driver and Application Installation
  - Lenovo Dynamic Brightness System
  - Lenovo Eye Distance System
  - McAfee® Internet Security (30-Day Trial)
  - Adobe® Reader®
  - Nitro PDF
  - CyberLink YouCam
  - CyberLink PowerDVD (DVD±RW)
  - CyberLink PowerGo (DVD±RW)
  - Microsoft Office preloaded; purchase product key to activate
  - Education Portal
- Windows Store apps (Metro-style)
  - Lenovo Support
  - AccuWeather
  - eBay
  - Evernote
  - Amazon Kindle
  - Rara Streaming
  - Lenovo Companion

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

---

See footnotes for important warranty information
US model(s) withdrawn effective March 2014

© Lenovo (HAIN1-1) December 2012
## Lenovo® C540 (Windows 8) - withdrawn

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Touch screen</th>
<th>Camera</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>Color</th>
<th>TV tuner</th>
<th>PCIe Mini Card</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>USB3.0</th>
<th>HDMI-out</th>
<th>Keyboard/ Mouse</th>
<th>Win8 preload</th>
</tr>
</thead>
<tbody>
<tr>
<td>57312695</td>
<td>Intel® Pentium® G2020 processor (2 cores / 2 threads, 2.90GHz, 3MB cache), integrated Intel HD Graphics, DDR3 memory controller (up to 1333MHz)</td>
<td>4GBx1</td>
<td>23&quot; FHD None</td>
<td>720p</td>
<td>Intel HD</td>
<td>1TB*</td>
<td>Black</td>
<td>None</td>
<td>11b/g/n*</td>
<td>None</td>
<td>120W</td>
<td>None</td>
<td>HDMI-out</td>
<td>USB/Black</td>
<td>Win8 64</td>
<td></td>
</tr>
</tbody>
</table>

- **All-In-One design with 23" 16:9 wide screen**
- **Dolby Advanced Audio v2 certified audio system with stereo speakers (3 watt x 2)**
- **Share media on any device from anywhere through Lenovo Cloud**
- **Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment**

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

### Preloaded applications (only some listed)
- **- Traditional Desktop apps**
  - Lenovo® Rescue System
  - Lenovo Cloud Storage by SugarSync
  - Driver and Application Installation
  - Lenovo Dynamic Brightness System
  - Lenovo Eye Distance System
  - McAfee® Internet Security (30-Day Trial)
  - Adobe® Reader®
  - Nitro PDF
  - CyberLink YouCam
  - CyberLink PowerDVD (DVD±RW)
  - CyberLink Power2Go (DVD±RW)

- **- Windows Store apps (Metro-style)**
  - Lenovo Support
  - eBay
  - Evernote
  - Amazon Kindle
  - Rara Streaming
  - Lenovo Companion

- **ENERGY STAR® qualified RoHS-compliant**

See footnotes for important warranty information

US model(s) withdrawn effective March 2014

© Lenovo (COSC1-2) March 2013
### Lenovo® C540 (Windows 8) - web only models - withdrawn

<table>
<thead>
<tr>
<th>Part number</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Touch screen</th>
<th>Camera</th>
<th>Graphics</th>
<th>SATA disk</th>
<th>Color</th>
<th>TV tuner</th>
<th>PCIe Mini Card</th>
<th>Color</th>
<th>Remote control</th>
<th>AC adapter</th>
<th>Keyboard/ Mouse</th>
<th>Win8 preload</th>
</tr>
</thead>
<tbody>
<tr>
<td>57313093</td>
<td>i3-3220</td>
<td>4+2GB</td>
<td>23&quot; FHD None</td>
<td>None</td>
<td>720p</td>
<td>Intel HD 2500 1TB</td>
<td>Black</td>
<td>TV</td>
<td>11b/g/n Remote</td>
<td>120W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>57313700</td>
<td>i3-3220</td>
<td>4+2GB</td>
<td>23&quot; FHD None</td>
<td>None</td>
<td>720p</td>
<td>Intel HD 2500 1TB</td>
<td>Black</td>
<td>TV</td>
<td>11b/g/n Remote</td>
<td>120W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>57313699</td>
<td>i5-3330S</td>
<td>4GBx2</td>
<td>23&quot; FHD None</td>
<td>None</td>
<td>720p</td>
<td>Intel HD 2500 2TB</td>
<td>Black</td>
<td>TV</td>
<td>11b/g/n Remote</td>
<td>120W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **All-In-One design with 23" 16:9 wide screen**
- **Dolby Advanced Audio v2 certified audio system with stereo speakers (3 watt x 2)**
- **Share media on any device from anywhere through Lenovo Cloud**
- **Stable full-metal stand with 5° forward / 25° backward viewing angle adjustment**

### Processor

- **Intel® Core™ i3-3220 processor** (2 cores / 4 threads, 3.30GHz, 3MB cache), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz)
- **Intel Core i5-3330S processor** (4 cores / 4 threads, 2.70GHz, 6MB cache), Turbo Boost Technology 2.0 (up to 3.20 GHz), integrated Intel HD Graphics 2500, DDR3 memory controller (up to 1600MHz)

### Memory

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

### SATA DVD/ RW

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

### SATA disk

- **1TB** (7200 rpm) or **2TB** (7200 rpm), SATA 6.0Gb/s, 3.5" wide

### SATA controller

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

### Widescreen display

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

### Multi-touch

- None

### Camera

- HD720p Camera on top of screen, fixed focus

### Controls

- Power on/off, menu, left, right, and display on/off buttons

### Graphics

- Intel HD Graphics 2500 in processor, DirectX® 11, uses main memory

### Chipset

- **Intel H61 Express Chipset**

### Multicard reader

- 6-in-1 reader (MultiMedia Card, Memory Stick, Memory Stick PRO™)

### Ports

- **Rear:** Four USB 2.0, ethernet (RJ-45), optional TV tuner connector on models equipped with TV tuner, optional HDMI-out
- **Side:** Two USB 2.0 (Two USB 3.0 on some models)

### PCIe Mini Card

- Two PCIe Mini Card slots (one full size and one half size)
- 11b/g/n wireless®, **PCIe half Mini Card**, Realtek® RTL8188CE or Atheros® AR9485

### TV tuner

- Some: ATSC TV tuner, PCIe Mini Card

### Bluetooth®

- None

### Modern

- None

### Ethernet

- Gigabit ethernet on planar, Realtek RTL8111F

### Audio support

- High Definition (HD) Audio, Realtek ALC272 codec / Dolby® Advanced Audio vmtv certified / two stereo speakers (3 watt x 2) / internal mono microphone, audio-in/ microphone jack (3.5 mm), headphone jack (3.5 mm)

### Security

- Power-on password, administrator password, security lockhole

### Keyboard/Mouse

- US full-size keyboard, black
- Optical Wheel Mouse, black
- Remote control: Remote control, via IR, black

### Touchpad

- None

### Dimensions

- (WxHxD) including stand: 22.28" x 16.81" x 7.76"; 566mm x 427mm x 197mm

### Weight

- From 15.9lb (7.23kg), vary by configuration

### Chassis

- Front bezel: black or white color; back bezel: black or white color, matches front color

### Stand

- Easily adjustable stand (5° forward / 25° backward viewing angle adjustment)

### Preloaded operating system

- Windows® 8 64-bit

### Preloaded applications (only some listed)

- Traditional Desktop apps
- Lenovo® Rescue System
- Lenovo Cloud Storage by SugarSync
- Driver and Application Installation
- Lenovo Dynamic Brightness System
- Lenovo Eye Distance System
- McAfee® Internet Security (30-Day Trial)
- Adobe® Reader®
- Nitro PDF
- CyberLink YouCam
- CyberLink PowerDVD (DVD±RW)
- CyberLink Power2Go (DVD±RW)
- Microsoft Office preloaded; purchase product key to activate
- Education Portal
- Windows Store apps (Metro-style)
  - Lenovo Support
  - AccuWeather
  - eBay
  - Evernote
  - Amazon Kindle
  - Puts Selling
  - Lenovo Companion

120-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), 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 877-453-6886

* See footnotes for important warranty information

US model(s) withdrawn effective March 2014

© Lenovo (COSC1-1) March 2013
Processor AMD® Athlon™ II X2 Processor 255 with dual-core,
4000MHz HyperTransport™ Bus,
AMD Virtualization™ (AMD-V™) technology,
AMD64 technology, integrated 1066MHz DDR3 memory controller,
and 2MB L2 cache (1MB per core)
AMD Athlon II X4 Processor 645 with quad-core,
4000MHz HyperTransport Bus,
AMD Virtualization (AMD-V) technology,
AMD64 technology, integrated 1333MHz DDR3 memory controller,
and 2MB L2 cache (512kB per core)

Implementation Processor in Socket AM3

Memory 2GB, 3GB, 4GB, or 6GB std, 8GB max, dual-channel capable,
PC3-10600 1333MHz DDR3, non-parity, two 240-pin DIMM sockets
* System automatically clocks down for processors with 1066MHz DDR3 memory controller

Graphics ATI™ Radeon™ 3000, integrated graphics in 760G,
uses main memory, DirectRXTM 10, ATI Avivo™
one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant

SATA disk 500GB or 1TB, SATA 3.0Gb/s, 7200 rpm
SATA controller Serial ATA, SATA 3.0Gb/s, integrated in SB710
SATA DVD±RW Multi-Burner DL DVD±RW SATÁ 1.5Gb/s Drive
SATA cables Two SATA cables (each 1-drop to device), four SATA connectors
EIDE controller None
EIDE cables None
Diskette drive None
Media reader 6-in-1 media reader

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

Front ports Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
Rear ports Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45),
monitor (VGA DB-15, HDMI)
Rear audio ports Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)
Audio High Definition (HD) audio, Realtek® ALC662 codec
External speakers None
Internal speaker None
Ethernet 10/100 ethernet on planar, Realtek 8103EL
Modem None
Security chip None
TV tuner None
Camera None

Keyboard 104-key standard keyboard (PS/2 connector), black
Mouse Optical Wheel Mouse (USB connector), black
Power supply Some: 180 watts, universal, manual switch
Some: 280 watts, universal, manual switch

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

Preloaded applications®
- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus
(60 days of virus definitions)
- Windows Live® Essential

Limited Warranty1
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts; 6 am - 5 pm)
- Service upgrade options (in eligible locations):2
- 2-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1552)
- 3-year Lenovo Onsite Repair
- 9x5 Next Business Day (78Y1553)
- 24x7 toll-free support for warranty issues during the warranty period1 via 877-453-6686

1See footnotes for important warranty information

US model(s) withdrawn effective March 2014

© Lenovo

(PGKR1-1) January 2011
### Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

*These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)*

<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD Athlon™ II X2 Processor 260 with dual-core, 4000MHz HyperTransport™ Bus, AMD Virtualization™ (AMD-V™) technology, AMD64 technology, integrated 1066MHz DDR3 memory controller, and 2MB L2 cache (1MB per core)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementation</td>
<td>Processor in Socket AM3</td>
</tr>
<tr>
<td>Memory</td>
<td>8GB max, dual-channel capable, PC3-10600 1333MHz DDR3, non-parity, two 240-pin DIMM sockets</td>
</tr>
<tr>
<td>* System automatically clocks down for processors with 1066MHz DDR3 memory controller</td>
<td></td>
</tr>
<tr>
<td>Graphics</td>
<td>ATI® Radeon™ 3000, integrated graphics in 760G, uses main memory, DirectX® 10, ATI Avivo™, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant</td>
</tr>
<tr>
<td>SATA disk</td>
<td>500GB, 1TB, or 1.5TB, SATA 3.0Gb/s, 7200 rpm</td>
</tr>
<tr>
<td>SATA controller</td>
<td>Serial ATA, SATA 3.0Gb/s, integrated in SB710</td>
</tr>
<tr>
<td>SATA DVD±RW</td>
<td>Multi-Burner DL DVD±RW SATAT 1.5Gb/s Drive</td>
</tr>
<tr>
<td>SATA cables</td>
<td>Two SATA cables (each 1-drop to device), four SATA connectors</td>
</tr>
<tr>
<td>IDE controller</td>
<td>None</td>
</tr>
<tr>
<td>IDE cables</td>
<td>None</td>
</tr>
<tr>
<td>Diskette drive</td>
<td>None</td>
</tr>
<tr>
<td>Media reader</td>
<td>6-in-1 media reader</td>
</tr>
<tr>
<td>Chipset</td>
<td>AMD 760G Chipset with HyperTransport 3.0 and PCI Express® 2.0 support; SB710 south bridge</td>
</tr>
<tr>
<td>Front ports</td>
<td>Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)</td>
</tr>
<tr>
<td>Rear ports</td>
<td>Four USB 2.0, keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (VGA DB-15, HDMI)</td>
</tr>
<tr>
<td>Rear audio ports</td>
<td>Line-in (stereo, 3.5mm), line-out (stereo, 3.5mm), microphone-in (stereo, 3.5mm)</td>
</tr>
<tr>
<td>Audio</td>
<td>High Definition (HD) audio, Realtek® ALC662 codec</td>
</tr>
<tr>
<td>External speakers</td>
<td>None</td>
</tr>
<tr>
<td>Internal speaker</td>
<td>None</td>
</tr>
<tr>
<td>Ethernet</td>
<td>10/100 ethernet on planar, Realtek 8103EL</td>
</tr>
<tr>
<td>Modem</td>
<td>None</td>
</tr>
<tr>
<td>Security chip</td>
<td>None</td>
</tr>
<tr>
<td>TV tuner</td>
<td>None</td>
</tr>
<tr>
<td>Camera</td>
<td>None</td>
</tr>
<tr>
<td>Keyboard</td>
<td>104-key standard keyboard (PS/2 connector), black</td>
</tr>
<tr>
<td>Mouse</td>
<td>Optical Wheel Mouse (USB connector), black</td>
</tr>
<tr>
<td>Power supply</td>
<td>280 watts, universal, manual switch</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)
- 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) withdrawn effective March 2014

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(PGKR1-2) December 2011
### Lenovo H420 (7752) - Windows 7 - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot × bay</th>
<th>Processor</th>
<th>GHz</th>
<th>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>802.11 wireless</th>
<th>Power supply</th>
<th>Keyboard / Mouse</th>
<th>Win7 preload</th>
</tr>
</thead>
<tbody>
<tr>
<td>7752-1OU</td>
<td>4x4</td>
<td>Pentium G620</td>
<td>2.60</td>
<td>3MB</td>
<td>2</td>
<td>4GBx1</td>
<td>6-in-1</td>
<td>1TB²</td>
<td>DVD+RW</td>
<td>Intel HD</td>
<td>None</td>
<td></td>
<td>280W</td>
<td>PS/2 / USB Prem 64</td>
<td></td>
</tr>
<tr>
<td>7752-1RU</td>
<td>4x4</td>
<td>Pentium G620</td>
<td>2.60</td>
<td>3MB</td>
<td>2</td>
<td>4GBx1</td>
<td>6-in-1</td>
<td>1TB²</td>
<td>DVD+RW</td>
<td>Intel HD</td>
<td>None</td>
<td></td>
<td>280W</td>
<td>PS/2 / USB Prem 64</td>
<td></td>
</tr>
<tr>
<td>7752-1SU</td>
<td>4x4</td>
<td>Pentium G630</td>
<td>3.10</td>
<td>3MB</td>
<td>2</td>
<td>4GBx1</td>
<td>6-in-1</td>
<td>1TB²</td>
<td>DVD+RW</td>
<td>Intel HD</td>
<td>None</td>
<td></td>
<td>11b/g/n</td>
<td>280W / PS/2 USB Prem 64</td>
<td></td>
</tr>
<tr>
<td>7752-1TU</td>
<td>4x4</td>
<td>Pentium G630</td>
<td>3.10</td>
<td>3MB</td>
<td>2</td>
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</table>

- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

#### Processor

- **Intel® Pentium® G620 Processor (2 cores / 2 threads, 2.60 GHz, 3MB Cache)**
- **Intel® Pentium® G630 Processor (2 cores / 2 threads, 2.70 GHz, 3MB Cache)**
- **Intel Core™ i3-2100 Processor (2 cores / 4 threads, 3.10 GHz, 3MB Cache)**
- **Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache)**

#### Implementation

- Processor in LGA1155 socket

#### Memory

- 8GB max*, dual-channel capable, PC3-10600 1333MHz DDR3*, non-parity, two 240-pin DIMM sockets
- *System automatically clocks down for processors with 1066MHz DDR3 memory controller

#### Graphics

- **Intel HD Graphics**, integrated graphics in processor, uses main memory, DirectX®10, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 models)

#### SATA disk

- 500GB or 1TB, SATA 3.0Gb/s, 7200 rpm

#### Power supply

- 280W, universal, manual switch

#### Tower

- Black bezel with glossy finish
- **6.9” W X 16.9” D X 368mm H**
- **17.6 lb (8.0 kg), weight may vary by configuration**

#### Mechanical

- **Bay ①**: 5.25”, 16 high, access, standard optical
- **Bay ②**: N/A, N/A, media reader*
- **Bay ③**: 3.5”, 1” high, no access, standard disk
- **Bay ④**: 3.5”, 1” high, no access, optical disk
- *Only for optional 6-in-1 media reader

#### Rearports

- Two USB 2.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm), four USB 2.0, keyboard (PS/2, mouse (PS/2), microphone-in (stereo, 3.5mm)
- One analog VGA DB-15 connector, composite, S-video, component, two composite, two S-video, one component, one stereo audio, one stereo phone, one stereo microphone, five audio inputs, four audio outputs, one microphone-in, one microphone-out, one line-in, one line-out, one audio line-in, one audio line-out

#### Optical drive

- 175mm W X 430mm D X 368mm H
- 6.9” W X 16.9” D X 14.5” H
- 17.6 lb (8.0 kg), weight may vary by configuration

#### 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
  - 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

See footnotes for important warranty information

US model(s) withdrawn effective March 2014

© Lenovo (PGKR2-1) March 2012
### Lenovo H430 (2558) - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot bay</th>
<th>Processor</th>
<th>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>Power supply</th>
<th>Keyboard / Mouse</th>
<th>Win7 preload</th>
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</tr>
</tbody>
</table>

- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows
- These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

### Processor

Intel® Pentium® G640 Processor (2 cores / 2 threads, 2.80 GHz, 3MB Cache)
- integrated Intel HD Graphics
- integrated 1066MHz dual-channel DDR3 memory controller

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

Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6MB Cache)
- integrated Intel HD Graphics 2000, Turbo Boost Technology 2.0 (up to 3.30 GHz)
- integrated 1333MHz dual-channel DDR3 memory controller

### Memory

- 8GB max, dual-channel capable, PC3-10600 1333MHz DDR3*, non-parity
- two 240-pin DIMM sockets
- System automatically clocks down for processors with 1066MHz DDR3 memory controller

### Graphics

Intel HD Graphics or Intel HD Graphics 2000, integrated graphics in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 models)
- High Definition (HD) audio, Realtek® ALC662 codec
- System automatically clocks down for processors with 1066MHz DDR3 memory controller
- System automatically clocks down for processors with 1066MHz DDR3 memory controller

### Preloaded operating system²
- Genuine Windows® 7
- Home Premium 64

### Preloaded applications³ (only some listed)
- Lenovo® Rescue System
- Driver and Application Installation
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- CyberLink Power2Go (DVD±RW)

---

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US model(s) withdrawn effective March 2014

(PGKR4-1) November 2012

See footnotes for important warranty information

### Tower
- Black bezel with glossy finish
- 6.9” W x 16.9” D x 14.5” H
- 175mm W x 430mm D x 368mm H
- 17.6 lb (8.0 kg), weight may vary by configuration

Bay ① 5.25”, 1.6” high, access, standard optical
Bay ② N/A, N/A, N/A, media reader*
Bay ③ 3.5”, 1” high, no access, standard disk
Bay ④ 3.5”, 1” high, no access, optional disk

* Only for optional 6-in-1 media reader

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

** TV tuner, USB 3.0 adapter, or wireless adapter in slot in some models

* Graphics adapter in slot in some models

### Mechanical
- Black bezel with glossy finish
- 6.9” W x 16.9” D x 14.5” H
- 175mm W x 430mm D x 368mm H
- 17.6 lb (8.0 kg), weight may vary by configuration

Bay ① 5.25”, 1.6” high, access, standard optical
Bay ② N/A, N/A, N/A, media reader*
Bay ③ 3.5”, 1” high, no access, standard disk
Bay ④ 3.5”, 1” high, no access, optional disk

* Only for optional 6-in-1 media reader

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

** TV tuner, USB 3.0 adapter, or wireless adapter in slot in some models

* Graphics adapter in slot in some 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)
- 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
Lenovo® H430 (Windows 8) - withdrawn

Personal Systems Reference (PSREF)

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

- Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows

Processor
- Intel® Pentium® G645 Processor (2 cores / 2 threads, 2.90 GHz, 3MB Cache)
- Intel Pentium® G2020 Processor (2 cores / 2 threads, 2.90 GHz, 3MB Cache)
- Intel Core™ i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3MB Cache)
- Intel Core™ i5-3330 Processor (4 cores / 6 threads, 3.00 GHz, 6MB Cache)
- Intel Core™ i3-3220 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache)
- Intel Pentium® G2020 Processor (2 cores / 2 threads, 2.90 GHz, 3MB Cache)
- Intel Core™ i5-3330 Processor (4 cores / 6 threads, 3.00 GHz, 6MB Cache)

SATA disk
1TB, SATA 3.0Gb/s, 7200 rpm

Chips
- Intel H61 Express Chipset
- Intel HD Graphics, Intel HD Graphics 2000, or Intel HD Graphics 2500, integrated graphics in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant (only for i3/i5/i7 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
  - 3-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) withdrawn effective March 2014

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(PGKR4-2) March 2013

Preloaded operating system
- Windows® 8 64-bit
Preloaded applications (only listed)
- Lenovo® Rescue System
- Driver and Application Installation
- Lenovo Cloud Storage by SugarSync
- McAfee® Internet Security (30-Day Trial)
- Adobe® Reader®
- Cyberlink PowerDVD (DVD±RW)
- Cyberlink Power2Go (DVD±RW)
- Microsoft Office preloaded; purchase product key to activate
- Intel AppUp®
- AccuWeather
- Evernote
- Kindle
- Lenovo Support
- Lenovo Companion
**Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**

**These systems are Microsoft Office 2010 Product Key Ready (O10PKR)**

---

**Processor**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot x bay</th>
<th>Processor</th>
<th>GHz</th>
<th>Cores</th>
<th>Memory</th>
<th>Graphics</th>
<th>TV tuner</th>
<th>Power supply</th>
<th>Keyboard/Mouse</th>
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<td>DVD:RW</td>
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</table>

**Graphics**

- AMD Radeon HD Graphics, integrated in processor, uses main memory, Direct3D 11, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant
- Integrated AMD Radeon HD 6530D Graphics, AMD Turbo Core technology (up to 1600MHz)
- Integrated AMD Radeon HD 6530D Graphics, AMD Turbo Core technology (up to 1600MHz)
- Integrated AMD Radeon HD 6530D Graphics, AMD Turbo Core technology (up to 1600MHz)
- Integrated AMD Radeon HD 6530D Graphics, AMD Turbo Core technology (up to 1600MHz)
- Processor in FM1 socket

**Memory**

- 8GB max, dual-channel capable, PC3-10600 1333MHz DDR3 or PC3-12800 1600MHz DDR3, non-parity, two 240-pin DIMM sockets

**SATA disk**

- 500GB or 1TB, SATA 3.0Gb/s, 7200 rpm

**SATA controller**

- Serial ATA, SATA 3.0Gb/s, integrated (chipset)

**SATA DVD:RW**

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

**SATA cables**

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

**EIDE controller**

- None

**Diskette drive**

- None

**Media reader**

- 6-in-1 media reader

**Chipset**

- AMD A55 FCH

**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, HDMI)

**Rear audio ports**

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

**Audio**

- High Definition (HD) audio, Realtek ALC662 codec

**External speakers**

- None

**Internal speaker**

- None

**Wireless**

- None

**Ethernet**

- Gigabit ethernet on planar, Realtek RTL8111E

**Modem**

- None

**Security chip**

- None

**TV tuner**

- None

**Camera**

- None

**Keyboard Mouse**

- Optical Wheel Mouse (USB connector), black

**Power supply**

- Some: 180 watts, universal, manual switch
- Some: 280 watts, universal, manual switch

---

**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)
- 9x5 Next Business Day (78Y1553)
- 24x7 toll-free support for warranty issues during the warranty period via 877-453-6686

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See footnotes for important warranty information

US model(s) withdrawn effective March 2014

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(PGKR3-1) August 2012
**Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows**

| Processor | AMD Accelerated Processor A4-3420 (dual-core, 2.80GHz, 1MB L2 cache), integrated AMD Radeon™ HD 6410D Graphics, integrated DDR3 memory controller (up to 1600MHz) |
| Processor | AMD Accelerated Processor A6-3650 (quad-core, 2.60GHz, 4MB L2 cache), integrated AMD Radeon HD 6530D Graphics, integrated DDR3 memory controller (up to 1866MHz) |
| Processor | AMD Accelerated Processor A8-3850 (quad-core, 2.90GHz, 4MB L2 cache), integrated AMD Radeon HD 6550D Graphics, integrated DDR3 memory controller (up to 1866MHz) |

| Memory | 8GB max*, dual-channel capable, PC3-12800 1600MHz DDR3, non-parity, two 240-pin DIMM sockets |

| Graphics | AMD Radeon HD Graphics, integrated graphics in processor, uses main memory, DirectX® 11, one analog VGA DB-15 connector, one HDMI connector, HDCP-compliant |

| SATA disk | 1TB or 2TB, SATA 3.0Gb/s, 7200 rpm |
| SATA controller | Serial ATA, SATA 3.0Gb/s, integrated in chipset |
| SATA controller | Multi-Burner DL DVD+/-RW SATA 1.5Gb/s Drive |
| SATA controller | Two SATA cables (each 1-drop to device), three SATA connectors |
| EIDE controller | None |
| EIDE controller | None |
| EIDE cables | None |
| Diskette drive | None |
| Media reader | 6-in-1 media reader |

| Chipset | AMD A55 FCH |

| 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, HDMI) |
| Audio | High Definition (HD) audio, Realtek® ALC662 codec |
| Audio | None |
| Audio | None |
| Audio | Gigabit ethernet on planar, Realtek RTL8111E |
| Modern | None |
| Security chip | None |
| TV tuner | None |
| Camera | None |

| Keyboard | Full-size keyboard (USB connector), Fn keys, black |
| Mouse | Optical Wheel Mouse (USB connector), black |
| Power supply | Some: 180 watts, universal, manual switch |
| Power supply | Some: 280 watts, universal, manual switch |

| Tower | Black bezel with glossy finish |
| Tower | 6.9” W X 16.9” D X 14.5” H |
| Tower | 175mm X W 430mm D X 368mm H |
| Tower | 17.6 lb (8.0 kg), weight may vary by configuration |

| Mechanical | Bay 1: 5.25”, 1.6” high, access, standard optical |
| Mechanical | Bay 2: N/A, N/A, N/A, media reader* |
| Mechanical | Bay 3: 3.5”, 1” high, no access, standard disk |
| Mechanical | Bay 4: 3.5”, 1” high, no access, optional disk |
| Mechanical | Only for optional 6-in-1 media reader |
| Mechanical | Slot 1: half-length, full-height, PCI Express x16 Ver 2.0 |
| Mechanical | Slot 2: half-length, full-height, PCI Express x16 Ver 2.0* |
| Mechanical | Slot 3: half-length, full-height, PCI Express x16 Ver 2.0 |
| Mechanical | Slot 4: half-length, full-height, PCI Express x16 Ver 2.0 |
| Mechanical | * Wireless adapter in slot in some models |

| Preloaded operating system® | - Windows® 8 64-bit |
| Preloaded applications® | (only some listed) |
| Preloaded applications® | • Lenovo® OneKey Recovery |
| Preloaded applications® | • Driver and Application Installation |
| Preloaded applications® | • Lenovo Cloud Storage by SugarSync |
| Preloaded applications® | • McAfee® Internet Security (30-Day Trial) |
| Preloaded applications® | • Nitro PDF |
| Preloaded applications® | • Adobe® Reader® |
| Preloaded applications® | • Microsoft® Office preloaded; purchase product key to activate |
| Preloaded applications® | • Cyberlink PowerDVD (DVD±RW) |
| Preloaded applications® | • CyberLink Power2Go (DVD±RW) |
| Preloaded applications® | • Exent Games Portal |
| Preloaded applications® | • Intel AppUp® |
| Preloaded applications® | • AccuWeather |
| Preloaded applications® | • Evernote |
| Preloaded applications® | • Kindle |
| Preloaded applications® | • Rara Streaming |
| Preloaded applications® | • eBay |
| Preloaded applications® | • Lenovo Support |
| Preloaded applications® | • Lenovo Companion |

See footnotes for important warranty information

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US model(s) withdrawn effective March 2014

PGKR3-2 November 2012
### Lenovo H505s (Windows 8) - withdrawn

<table>
<thead>
<tr>
<th>Part number</th>
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<th>Cores</th>
<th>Memory</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>802.11 wireless</th>
<th>TV tuner</th>
<th>Power adapter</th>
<th>Keyboard/ Mouse</th>
<th>Win8 preload</th>
<th>Avail date (mm/yy)</th>
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<tr>
<td>57308578</td>
<td>1x2</td>
<td>E2-1800</td>
<td>1.70</td>
<td>Dual</td>
<td>4GBx1</td>
<td>7-in-1</td>
<td>500GB²</td>
<td>DVD±RW</td>
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<td>None</td>
<td>65W</td>
<td>USB / USB</td>
<td>Win8 64</td>
<td>01/13</td>
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<td>E2-1800</td>
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<td>Dual</td>
<td>4GBx1</td>
<td>7-in-1</td>
<td>1TB</td>
<td>DVD±RW</td>
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<td>65W</td>
<td>USB / USB</td>
<td>Win8 64</td>
<td>03/13</td>
<td></td>
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</tbody>
</table>

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

### Processor
- **AMD Accelerated Processor E2-1800** (2 cores, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)

### Implementation
- Processor in FT1 packages

### Memory
- 8GB max², PC3-12800 1600MHz DDR3³, non-parity, single-channel, two 240-pin DIMM sockets
- System automatically clocks down for processors with 1333MHz DDR3 memory controller

### Graphics
- **AMD Radeon HD 7340 graphics**, integrated in processor, uses main memory, DirectX® 11, one analog VGA DB-15 connector, one HDMI connector, HDCP

### SATA disk
- 500GB or 1TB, SATA 6.0Gb/s, 7200 rpm

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

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

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

### EIDE controller
- None

### EIDE cables
- None

### Diskette drive
- None

### Multicard reader
- 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro)

### Chipset
- **AMD A68 FCH**

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

### Rear ports
- Two USB 2.0, two USB 3.0, ethernet (RJ-45), monitor (VGA DB-15, HDMI)

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

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

### External speakers
- None

### Internal speaker
- None

### Wireless
- None

### Ethernet
- 10/100M ethernet on planar, Realtek RTL8105E

### Security chip
- None

### TV tuner
- None

### Camera
- None

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

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

### Power supply
- 65 watts power adapter, ENERGY STAR® qualified

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

### Preloaded applications
- (only some listed)
  - Lenovo® OneKey Recovery
  - Driver and Application Installation
  - Lenovo Cloud Storage by SugarSync
  - McAfee® Internet Security (30-Day Trial)
  - Nitro PDF
  - Adobe® Reader
  - Microsoft® Office preloaded:
    - purchase product key to activate
  - Cyberlink PowerDVD (DVD±RW, Blu-ray models)
  - CyberLink Power2Go (DVD±RW, Blu-ray models)
  - Exten Games Portal
  - Intel AppUp®
  - AccuWeather
  - Evernote
  - Kindle
  - Rara Streaming
  - eBay
  - Lenovo Support
  - Lenovo Companion

### Small Form Factor (11L)
- Glossy black and brushed metal
- 4.1" L X 14.2" D X 12.0" H
- 105mm W X 360mm D X 305mm H
- 11.0 lb (5.0 kg) vary by configuration

### Bay
- 5.25", 1.6" high, access, standard optical
- 3.5", 1" high, no access, standard disk

### Chipset slot 1:
- half-length, Low Profile, PCI Express x1 Ver 2.0

### 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):³
  - 2-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair
  - 9x5 Next Business Day (78Y1553)
- 24x7⁴ toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

US model(s) withdrawn effective March 2014

© Lenovo (CRET3-1) March 2013
## Lenovo® H520s (2561) - withdrawn

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory *</th>
<th>Sata Disks</th>
<th>Sata Optical</th>
<th>Graphics</th>
<th>Wireless</th>
<th>USB 3.0</th>
<th>Power Supply</th>
<th>Keyboard/Mouse</th>
<th>Win 7 Preload</th>
<th>Availability</th>
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<tbody>
<tr>
<td>2561-2JU</td>
<td>Intel® Pentium® G640 (2 cores / 2 threads, 2.80 GHz, 3MB Cache)</td>
<td>4GBx1</td>
<td>500GB+</td>
<td>DVD±RW</td>
<td>Intel HD Graphics</td>
<td>11b/g/n</td>
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<td>180W USB/USB</td>
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<td>08/12</td>
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<td>2561-1SU</td>
<td>Intel Core™ i3-2120 (2 cores / 4 threads, 3.30 GHz, 3MB Cache)</td>
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<td>Intel HD 2000</td>
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<td>11b/g/n</td>
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<td>180W USB/USB</td>
<td>None</td>
<td>08/12</td>
<td></td>
</tr>
<tr>
<td>2561-2JU</td>
<td>Intel Core™ i5-2320 (4 cores / 4 threads, 3.00 GHz, 6MB Cache)</td>
<td>4GBx2+</td>
<td>DVD±RW</td>
<td>Intel HD 2000</td>
<td>None</td>
<td>11b/g/n</td>
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<td>240W USB/USB</td>
<td>None</td>
<td>08/12</td>
<td></td>
</tr>
</tbody>
</table>

* Lenovo Rescue System provides OneKey recovery without booting into Windows
* These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

### Processor
- **Intel** Pentium® G640 Processor (2 cores / 2 threads, 2.80 GHz, 3MB Cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller
- **Intel Core™ i3-2120 Processor (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller
- **Intel Core™ i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6MB Cache),** Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

### Memory
- 8GB max, 500GB or 1TB, 7200 rpm
- Dual-channel capable, two 240-pin DIMM sockets
- System automatically clocks down for processors with 1066MHz DDR3 memory controller

### Graphics
- Intel HD Graphics or Intel HD Graphics 2000, integrated in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP

### 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

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See footnotes for important warranty information

US model(s) withdrawn effective March 2014

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(creat1-2) August 2012
## Lenovo® H520s (Windows 8) - withdrawn

### Processor
- **Intel® Pentium® G645 Processor** (2 cores / 2 threads, 2.90 GHz, 3MB Cache), integrated Intel HD Graphics, integrated 1066MHz dual-channel DDR3 memory controller
- **Intel Pentium G2020 Processor** (2 cores / 2 threads, 2.90 GHz, 3MB Cache), integrated Intel HD Graphics, integrated 1333MHz dual-channel DDR3 memory controller
- **Intel Core™ i3-2130 Processor** (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller
- **Intel Core i3-3220 Processor** (2 cores / 4 threads, 3.30 GHz, 3MB Cache), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller
- **Intel Core i5-3330 Processor** (4 cores / 4 threads, 3.00 GHz, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.20 GHz), integrated Intel HD Graphics 2500, integrated 1600MHz dual-channel DDR3 memory controller

### Memory
- 8GB max\(^5\), **PC3-10600 1333MHz DDR3**, non-parity, dual-channel capable, two 240-pin DIMM sockets
- System automatically clocks down for processors with 1066MHz DDR3 memory controller

### Graphics
- **Intel HD Graphics**, Intel HD Graphics 2000, or Intel HD Graphics 2500, integrated in processor, uses main memory, one VGA connector, one HDMI connector
- Two SATA cables (each 1-drop to device), four SATA connectors
- **7-in-1 reader** (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro)

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

### 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, HDMI])

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

### External speakers
- None

### Internal speaker
- None

### Wireless
- **Some:** 11b/g/n wireless\(^5\), PCIe Half Mini Card, Realtek\(^®\) or Atheros\(^®\) chip

### Ethernet
- Gigabit ethernet on planar, Realtek RTL8111F

### Modem
- None

### Security chip
- None

### TV tuner
- None

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

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

### Power supply
- Some: 180 watts, universal, manual switch
- Some: 240 watts, universal, auto-sensing

### Preloaded operating system\(^6\)
- Windows® 8 64-bit

### Preloaded applications\(^5\)
- (only some listed)
  - Lenovo® OneKey Recovery
  - Driver and Application Installation
  - Lenovo Cloud Storage by SugarSync
  - McAfee® Internet Security (30-Day Trial)
  - Nitro PDF
  - Adobe® Reader®
  - Microsoft® Office preloaded; purchase product key to activate

### Preloaded applications\(^5\)
- Cyberlink PowerDVD (DVD±RW, Blu-ray models)
- CyberLink Power2Go (DVD±RW, Blu-ray models)
- Exent Games Portal
- Intel AppUp\(^®\)
- AccuWeather
- eReader
- Kindle
- Rara Streaming
- Kindle
- eBay
- Lenovo Support
- Lenovo Companion

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

### Small Form Factor (11L)
- Glossy black and brushed metal
- 4.1" L X 14.2" D X 12.0" H
- 105mm W X 360mm D X 305mm H
- 17.4 lb (7.9 kg) vary by configuration

### Bay
- **5.25\(®\), 1.6\(®\) high, access, standard optical**
- **3.5\(®\), 1\(®\) high, no access, standard disk**

### Slot 1
- half-length, Low Profile, PCI Express x16 Ver 2.0

### Slot 2
- half-length, Low Profile, PCI Express x1 Ver 2.0

### Graphics adapter in slot on some models

### **TV tuner or USB 3.0 card in slot on some models**

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

### Avail date
- (CRET1-4) February 2013

See footnotes for important warranty information

US model(s) withdrawn effective March 2014

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## Lenovo® H520s (2561) - web only models - 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>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>802.11 wireless</th>
<th>Power supply</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
<th>Avail date (mm/yy)</th>
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<tbody>
<tr>
<td>2561-5AU</td>
<td>2x2</td>
<td>i3-2130</td>
<td>3.40</td>
<td>4+2GB</td>
<td>7-in-1</td>
<td>1TB²</td>
<td>DVD±RW</td>
<td>Intel HD 2000</td>
<td>None</td>
<td>USB3.0</td>
<td>180W</td>
<td>2.4G / 2.4G</td>
<td>Prem 64</td>
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</tbody>
</table>

* Lenovo Rescue System provides OneKey recovery without booting into Windows
* These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)

### Processor
- **Intel® Core™ i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller**

#### Implementation
- Processor in LGA1155 socket

#### Memory
- 8GB max², PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 240-pin DIMM sockets

#### Graphics
- **Intel HD Graphics 2000**, integrated in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP

#### SATA disk
- 1TB, SATA 3.0Gb/s, 7200 rpm

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

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

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

#### EIDE controller
- None

#### EIDE cables
- None

#### Diskette drive
- None

#### Multicard reader
- 7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro)

### Chipset
- Intel H61 Express Chipset

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

#### Rear ports
- Four USB 2.0 and two USB 3.0 (Via USB 3.0 adding card on selected models), ethernet (RJ-45), monitor (VGA DB-15, HDMI)

#### 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

#### Wireless
- None

#### Ethernet
- Gigabit ethernet on planar, Realtek RTL8111F

#### Modem
- None

#### Security chip
- None

#### TV tuner
- None

#### Camera
- None

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

#### Mouse
- 2.4G wireless Laser Wheel Mouse, black

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

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

### Preloaded applications
- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® AntiVirus Plus
  - (60 days of virus definitions)

- Power Setting
- Cyberlink PowerDVD (Blu-ray)
- CyberLink Power2Go (DVD±RW, Blu-ray)
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

### Small Form Factor (11L)
- Glossy black and brushed metal
- 4.1" L X 14.2" D X 12.0" H
- 105mm W X 360mm D X 305mm H
- 17.4 lb (7.9 kg) vary by configuration

#### Bay
- 5.25", 1.6" high, access, standard optical
- 3.5", 1" high, no access, standard disk

#### Slot
- 1: half-length, Low Profile, PCI Express x16 Ver 2.0
- 2: half-length, Low Profile, PCI Express x1 Ver 2.0

* Graphics adapter in slot on some models
** TV tuner or USB 3.0 card in slot on some models

### Limited Warranty
- 1-year parts and labor
- Customer Replaceable Unit (CRU) parts only (with limited onsite service for selected parts², 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time)
- Service upgrade options (in eligible locations):²
  - 2-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1552)
  - 3-year Lenovo Onsite Repair 9x5 Next Business Day (78Y1553)
  - 24x7²² toll-free support for warranty issues during the warranty period via 877-453-6686

See footnotes for important warranty information

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(cret1-3) August 2012

US model(s) withdrawn effective March 2014
Lenovo® H520s (4746) - web only models - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
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<th>Processor</th>
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<th>Memory</th>
<th>Media reader</th>
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<th>SATAv optical</th>
<th>Graphics</th>
<th>802.11 wireless</th>
<th>USB3.0</th>
<th>Power supply</th>
<th>Keyboard/ Mouse</th>
<th>Win7 preload</th>
<th>Avail date (mm/yy)</th>
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<tbody>
<tr>
<td>4746-1DU</td>
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<td>i3-2120</td>
<td>3.30</td>
<td>4x2GB</td>
<td>7-in-1</td>
<td>1TBv</td>
<td>DVD±RW</td>
<td>Radeon HD 7570</td>
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<td>i7-3770</td>
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<td>4xGBx2</td>
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<td>2TBv</td>
<td>DVD±RW</td>
<td>Intel HD 4000</td>
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<td>USB3.0</td>
<td>240W</td>
<td>2.4G / 2.4G Prem 64</td>
<td>06/12</td>
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<td>2TBv</td>
<td>BD burner</td>
<td>GeForce GT 620</td>
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<td>4746-1VU</td>
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<td>i5-2320</td>
<td>3.00</td>
<td>3.30</td>
<td>4GBx2</td>
<td>1TBv</td>
<td>DVD±RW</td>
<td>Intel HD 2000</td>
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<td>240W</td>
<td>2.4G / 2.4G Prem 64</td>
<td>06/12</td>
<td></td>
</tr>
</tbody>
</table>

- 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, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

Intel Core i5-2320 Processor (4 cores / 4 threads, 3.00 GHz, 6MB Cache), Turbo Boost Technology 2.0 (up to 3.30 GHz), integrated Intel HD Graphics 2000, integrated 1600MHz dual-channel DDR3 memory controller

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

**Implementation**

Processor in LGA1155 socket

**Memory**

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

**Graphics**

Some: Intel HD Graphics 2000 or 4000, integrated in processor, uses main memory, one analog VGA DB-15 connector, one HDMI connector, HDCP

Some: NVIDIA GeForce GT 620, PCI Express x16, 1GB DDR3

Some: AMD Radeon™ HD 7570, PCI Express x16, 2GB DDR3

**SATA disk**

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

**SATA controller**

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

**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), four SATA connectors

**EIDE controller**

None

**EIDE cables**

None

**Diskette drive**

None

**Multicard reader**

7-in-1 reader (SD, SDHC, SDXC, MMC, MMC plus, MS, MS pro)

**Chipset**

Intel H61 Express Chipset

**Front ports**

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

**Rear ports**

Four USB 2.0 and two USB 3.0 (Via USB 3.0 adding card on selected models), ethernet (RJ-45), monitor (VGA DB-15, HDMI)

**Rear audio ports**

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

**External speakers**

None

**Internal speaker**

None

**Wireless**

None

**Ethernet**

Gigabit ethernet on planar, Realtek RTL8111F

**Modem**

None

**Security chip**

None

**TV tuner**

None

**Camera**

None

**Keyboard**

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

**Mouse**

2.4G wireless Laser Wheel Mouse, black

**Power supply**

240 watts, universal, auto-sensing, 85% PSU, 80 PLUS® Bronze qualified

**Preloaded operating system**

- Genuine Windows® 7 Home Premium 64

**Preloaded applications**

- Lenovo® OneKey Recovery
- Driver and Application Installation
- McAfee® AntiVirus Plus (60 days of virus definitions)

- Power Setting
- Cyberlink PowerDVD (Blu-ray)
- CyberLink Power2Go (DVD±RW, Blu-ray)
- Windows Live Essentials
- Microsoft® Office 2010 preloaded; purchase product key to activate

See footnotes for important warranty information

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US model(s) withdrawn effective March 2014

(CRET1-1) October 2012
**Lenovo Rescue System provides OneKey recovery without booting into Windows**

Processor: Intel® Core™ i3-2130 Processor (2 cores / 4 threads, 3.40 GHz, 3MB Cache), integrated Intel HD Graphics 2000, integrated 1333MHz dual-channel DDR3 memory controller

Small Form Factor (11L)
- Glossy black and brushed metal
- 4.1" L X 14.2" D X 12.0" H
- 105mm W X 360mm D X 305mm H
- 17.4 lb (7.9 kg) vary by configuration

Bay: 5.25", 1.6" high, access, standard optical
Bay: 3.5", 1" high, no access, standard disk

Slot 1: half-length, Low Profile, PCI Express x16 Ver 2.0
Slot 2: half-length, Low Profile, PCI Express x1 Ver 2.0

* Graphics adapter in slot on some models
** TV tuner or USB 3.0 card in slot on some models

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### Lenovo H520s (Windows 8) - web only models - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Slot xbay</th>
<th>Processor</th>
<th>Max turbo (GHz)</th>
<th>Memory</th>
<th>Media reader</th>
<th>SATA disk</th>
<th>SATA optical</th>
<th>Graphics</th>
<th>802.11 wireless</th>
<th>Power supply</th>
<th>Keyboard/Mouse</th>
<th>Win8 preload</th>
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<td>180W USB / USB</td>
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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 877-453-6686

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See footnotes for important warranty information
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Partial list of Lenovo® Care Services for Lenovo Essential desktops


**Lenovo Care service upgrade options**

*Lenovo Essential desktops with 1-year Onsite warranty*

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<tr>
<td>3-year Lenovo Onsite Repair warranty 9x5</td>
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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 WAN Cards: Wireless data service requires separate agreement with Verizon Wireless. Verizon Wireless, not Lenovo, is solely responsible for service. Monthly and airtime charges may apply. Service may not be available in all areas; purchaser is responsible for verifying with Verizon Wireless that service is available for the intended location before the purchase of the card. For complete details, including service plans, additional required hardware or software, and service coverage, visit www.verizonwireless.com.

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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Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

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

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

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

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

4 CD and DVD list maximum rates; rates are variable and are often less than the maximum.

5 Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. License agreements may apply.

6 Post-warranty annual maintenance agreement: Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.

7 Lenovo Care Services: Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part at your discretion, will be express shipped to you for quick replacement. See Lenovo Care terms and conditions for complete details and restrictions.

8 Memory: For PCs without a separate video card, memory supports both system and video. Accessible system memory is up to 64MB less than the amount stated, depending on video mode.

9 International Warranty Service is available for most models in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

10 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.

11 For combination drives, maximum speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.

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

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

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