Personal Systems Reference
Lenovo® ThinkPad® Edge Notebooks
2010 to present - withdrawn

February 2013 - Version 432 (Western Europe)
**ThinkPad® Edge E320 1298 (Intel) - TopSeller - withdrawn**

**Personal Systems Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA GB rpm</th>
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- **Small and medium business (SMB) model(s), part of the WE TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**

### Preloaded operating system
- Some: Genuine Windows 7
- Some: Genuine Windows 7 Professional

### Ready to install applications (only some listed)
- Rescue and Recovery™
- Access Connections™
- FingerPrint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

### Preloaded applications (only some listed)
- Norton™ Internet Security 2011
- Adobe® Reader®
- Skype™ for Windows
- Microsoft Office 2010 preloaded
- purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD:RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

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See footnotes for more detailed information

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WE model(s) announced December 20, 2011; previous models on July 5 or October 4, 2011

WE model(s) withdrawn effective July 2012

(G-PT1-1) February 2013

65-watt AC adapter
PEPATT® Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service
24 hour x 7 day toll-free support during the warranty period
## ThinkPad® Edge E320 (Intel) - TopSeller (January 2012) - withdrawn

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- Small and medium business (SMB) model(s), part of the WE TopSeller™ Program
- Microsoft® Office 2010 Product Key Ready (O10PKR)

### Preloaded operating system
- Some: Genuine Windows® 7
- Some: Genuine Windows 7 Professional

### Ready to install applications
- Norton™ Internet Security 2011
- Adobe® Reader®
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

### Preloaded applications
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

See footnotes for more detailed information © Lenovo

WE model(s) announced January 17, 2012
WE model(s) withdrawn effective July 2012

1298-A9G i5-2450M 4GBx1 13.3" HD 720p 320G 7200 Intel 1000 Ericsson selectable Matte black Blue 6 Pro 64
1298-82G i3-2350M 4GBx1 13.3" HD 720p 320G 7200 Intel 1000 Ericsson selectable Matte black Blue 6 Pro 64
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1298-84G i3-2350M 4GBx1 13.3" HD 720p 320G 7200 Intel 1000 Ericsson selectable Matte black Blue 6 Pro 64
**ThinkPad® Edge E320 1298 (Intel) - Switchable (TopSeller) - withdrawn**

**Positioning**
- Small and medium business (SMB) model(s), part of the WE TopSeller™ Program
- Microsoft® Office 2010 Product Key Ready (O10PKR)

**Type-model** | **Processor** | **Memory** | **Wide-screen display** | **Disk** | **PCle Mini Card** | **PCle Mini Card WWAN** | **Carrier** | **Top color** | **Battery cells** | **Preload** |
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**Key Features**
- Preloaded operating system
  - Genuine Windows® 7
  - Home Premium 64
- Ready to install applications
  - Rescue and Recovery™
  - Access Connections™
  - Fingerprint Software (fingerprint models)
  - Password Manager (fingerprint models)
  - ThinkVantage System Update
  - ThinkVantage Power Manager
  - ThinkVantage Toolbox
- Preloaded applications
  - Norton™ Internet Security 2011
  - Adobe® Reader™
  - Skype™ for Windows
  - Microsoft Office 2010 preloaded; purchase product key to activate
  - Adobe Acrobat® X Standard (bundled with Microsoft Office)
  - Corel® WinDVD® (DVD±RW)
  - Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
- Supports ThinkVantage™ technologies
  - 90-watt AC adapter
  - EPEAT® Gold rating
  - ENERGY STAR® 5.0-compliant
  - RoHS-compliant
  - International Warranty Service
  - 24 hour x 7 days toll-free support during the warranty period

See footnotes for more detailed information
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WE model(s) announced January 17, 2012; previous model(s) on July 5 or October 4, 2011
WE model(s) withdrawn effective July 2012

(G-PTI-2) February 2013
## Positioning

**Processor**
- Sophisticated design with quality, durability and reliability for SMB customers
- One spindle Intel® Core™ i3-2330M processor (dual-core, 2.20GHz, 3MB Cache)
- DDR3 memory controller (up to 1333MHz, HT technology)

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

**Optical SATA disk**
- None

**mSATA SSD**
- None

**Wide screen display**
- 13.3" (338mm) HD (1366x768) color, anti-glare
- 16:9 aspect ratio, 400:1 contrast ratio

**Camera**
- HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator

**Graphics**
- Intel HD Graphics 3000 in processor
- External analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display
- Max external resolution: 2048x1536 (VGA)@75Hz; 2560x1600 (HDMI)@60Hz

**Keyboard**
- 6-row, spill-resistant, multimedia Fn keys

**TrackPoint®**
- TrackPoint pointing device, Internet Scroll Bar

**Touchpad**
- UltraNav™, buttonless touchpad below keyboard, multi-touch

**ThinkLight™**
- None

**Dimensions**
- 13.3W" (WxDxH): 12.67" x 8.98" x 1.05-1.21"; 322 x 228 x 26.7-30.9mm
- Weight: 6-cell: from 4.07 lb (1.85kg)

**Case color**
- Matte black (top), trimmed with a thin silver band (side); black bottom

**Case material**
- Acrylonitrile-Butadiene-Styrene (ABS) plastic

**Battery - type**
- Lithium Ion 6-cell

**Battery - life**
- 6-cell (62Whr): up to 6.0 hr

**Chipset**
- Mobile Intel HM65 Express Chipset

**ExpressCard**
- None

**Multicard Reader**
- 4-in-1 reader (MMC, SD, SDHC, SDXC)

**Ports**
- Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCIe Mini Card**
- Two PCI Express Mini Card slots

**WLAN/WWAN**
- None

**Modem**
- None

**Bluetooth™**
- Bluetooth 3.0 wireless

**Ethernet**
- Gigabit ethernet, Atheros® AR8151

**Audio support**
- High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/
  mono digital microphone, combo audio/mic jack

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

**Security chip**
- None

**Fingerprint reader**
- None

**Limited warranty**
- 1-year - depot repair service / service upgrades available

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

Preloaded operating system
- DOS-Lic.

### See footnotes for more detailed information

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WE model(s) announced October 4, 2011
WE model(s) withdrawn effective July 2012

(G-PT1-4) February 2013
## ThinkPad® Edge E325 1297 (AMD) - TopSeller - withdrawn

### Specifications

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### Features

- Small and medium business (SMB) model(s), part of the WE TopSeller℠ Program
- Microsoft® Office 2010 Product Key Ready (O10PKR)

### Positioning Processor

- Sophisticated design with quality, durability and reliability for SMB customers; one spindle
- AMD Accelerated Processor E-350 with dual-core, integrated AMD Radeon™ HD 6310M Graphics, virtualization technology, integrated 1066MHz DDR3 memory controller, and 1MB L2 cache
- AMD Accelerated Processor E-450 with dual-core, integrated AMD Radeon HD 6320M Graphics, virtualization technology, integrated 1333MHz DDR3 memory controller, and 1MB L2 cache

### Memory

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

### Optical SATA disk

- None
- Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5” wide, 7mm high, upgradeable
- Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5” wide, 7mm high, removable, upgradeable
- Active Protection System™

### mSATA™ SSD

- None

### Widescreen display

- 13.3” (338mm) HD (1366x768) color, anti-glare
- LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio
- Active Protection System™

### Camera

- HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator
- Supports dual independent display;
- Maximum external resolution: 2048x1536 (VGA) @60Hz; 1920x1200 (HDMD) @60Hz

### Keyboard

- 6-row, spill-resistant, multimedia Fn keys

### TrackPoint™

- TrackPoint pointing device, Internet Scroll Bar™

### Touchpad

- UltraNav™, buttonless touchpad below keyboard, multi-touch

### ThinkLight™

- None

### Dimensions

- 13.3”W (WxDxH): 12.67” x 8.98” x 1.05-1.21”; 322 x 228mm x 26.7-30.9mm
- Lithium Ion 6-cell
- 6-cell (62Whr): up to 6.2 hr

### Chipset

- AMD A50M FCH Chipset

### ExpressCard

- None

### Multicard Reader

- 4-in-1 reader (MMC, SD, SDHC, SDXC)

### PCle Mini Card

- One PCI Express Mini Card slot
- Some: 11b/g/n, PCie Half Mini Card, ThinkPad b/g/n, 1x1
- Some: 11a/b/g/n, PCie Half Mini Card, ThinkPad a/b/g/n, 2x2

### WWAN

- None

### Modem

- None

### Bluetooth™

- Bluetooth 3.0 wireless

### Ethernet

- Gigabit ethernet, Atheros® AR8151

### Audio support

- High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2 /
- mono digital microphone, combo audio/mic jack

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Fingerprint Software (fingerprint

### Limited warranty

- 1-year - depot repair service / service upgrades® available
ThinkPad® Edge E325 1297 (AMD) - TopSeller (DOS) - withdrawn

| Type-model | Processor | Memory | Wide-screen display | Camera | Integrated graphics | Disk Sata/Gb rpm | PCie Mini Card WLAN | PCie Mini Card WWAN | Top color | Bluetooth | Battery cells | Preload |
|------------|-----------|--------|---------------------|--------|--------------------|-----------------|-------------------|-------------------|-----------|-----------|---------------|---------|---------|
| 1297-2UG   | E-450     | 1.65   | 4GBx1               | 13.3" HD | 720p    | HD 6320         | 320G 7200       | TP 11b/g/n       | None      | Matte black | Blue          | 6       | DOS-Lic. |

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

Positioning

Processor: Sophisticated design with quality, durability and reliability for SMB customers; one spindle

AMD Accelerated Processor E-450 with dual-core, integrated AMD Radeon™ HD 6320M Graphics, virtualization technology, integrated 1333MHz DDR3 memory controller, and 1MB L2 cache

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

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

Optical

SATA disk: None

Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high, upgradable

Some: Hard Disk Drive / SATA 3.0Gb/s or 2.5" wide, 7mm high, removable, upgradable,

Active Protection System™

mSATA™ SSD: None

Widescreen display: 13.3" (338mm) HD (1366x768) color, anti-glare,

LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio

Camera: HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator

Graphics: AMD Radeon HD 6320M graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content);
supports dual independent display;

Maximum external resolution: 2048x1536 (VGA)@60Hz; 1920x1200 (HDMI)@60Hz

Keyboard: 6-row, spill-resistant, multimedia Fn keys

TrackPoint™: TrackPoint pointing device, Internet Scroll Bar

Touchpad: UltraNav™, buttonless touchpad below keyboard, multi-touch

ThinkLight™

Dimensions3: 13.3W" (WxDxH): 12.67" x 8.98" x 1.05-1.21"; 322 x 228mm x 26.7-30.9mm

Weight2: 6-cell: from 3.95 lb (1.79kg)

Case color: Matte black (top), trimmed with a thin silver band (side); black bottom

Battery - type37: Lithium Ion 6-cell

Battery - life10: 6-cell (62Whr): up to 6.2 hr

Chipset: AMD A50M FCH Chipset

ExpressCard: None

Multicard Reader: 4-in-1 reader (MMC, SD, SDHC, SDXC)

Ports: Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

PCie Mini Card WLAN4: One PCI Express Mini Card slot

11b/g/n, PCie Half Mini Card, ThinkPad b/g/n, 1x1

WWAN: None

Modem: None

Bluetooth™: Bluetooth 3.0 wireless

Ethernet: Gigabit ethernet, Atheros® AR8151

Audio support: High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/

mono digital microphone, combo audio/mic jack

Security: Power-on password, hard disk password, supervisor password, security keyhole

Security chip: None

Fingerprint reader: None

Limited warranty12: 1-year - depot repair service / service upgrades available

Preloaded operating system10: - DOS-Lic.

Supports ThinkVantage® technologies

65-watt AC adapter

EPEAT™ Gold rating

(Windows 7 models)

ENERGY STAR® 5.0-compliant

(Windows 7 models)

RoHS-compliant

International Warranty Service17

24 hour x 7 day18 toll-free support during the warranty period11

See footnotes for more detailed information

WE model(s) announced October 4, 2011

WE model(s) withdrawn effective July 2012
**ThinkPad® Edge E420s 4401 (TopSeller) - withdrawn**

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

**Microsoft® Office 2010 Product Key Ready (O10PKR)**

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<thead>
<tr>
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<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA 038 rpm</th>
<th>PCIe Mini Card WLAN</th>
<th>PCIe Mini Card WWAN</th>
<th>Finger print reader</th>
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<td>Intel 1000</td>
<td>Finger</td>
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<td>Prem 64</td>
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</table>

- **Positioning**
  - Elegant design with quality, reliability, and portability for SMB customers; two spindles Intel® Core™ i3-2330M processor (dual-core, 2.20GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology
  - Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology
  - Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology

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

- **Optical SATA disk**
  - DVD burner, 9.5mm high, fixed, not removable, slot-in
  - Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high
  - Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
  - All: removable, upgradable, Shock Mounted Hard Drive

- **Battery**
  - Integrated Lithium Ion 4-cell, 1000 cycle battery
  - Starting at 4.14 lb (1.88kg)

- **Chipset**
  - Mobile Intel HM65 Express Chipset

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

- **Preloaded applications**
  - Norton™ Internet Security 2011 (30 days of virus definitions)
  - Adobe® Reader®
  - Skype™ for Windows
  - Windows Live™ Essentials
  - Microsoft Office 2010 preloaded; purchase product key to activate
  - Adobe Acrobat® X Standard (bundled with Microsoft Office)
  - Core™ WinDVD® (DVD±RW)
  - Core™ Burn.Now™ Lenovo Edition (DVD±RW)
  - Core™ DVD MovieFactory® Lenovo Edition (DVD±RW)

- **See footnotes for more detailed information**

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WE model(s) announced January 17, 2012; previous model(s) on October 4, 2011

WE model(s) withdrawn effective May 2012
ThinkPad® Edge E420s 4401 (Switchable) - TopSeller - withdrawn

<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk</th>
<th>SATA GB</th>
<th>rpm</th>
<th>PCIe Mini Card</th>
<th>WWAN</th>
<th>mSATA</th>
<th>Carrier</th>
<th>Finger print reader</th>
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</table>

- Small and medium business (SMB) model(s), part of the WE TopSeller™ Program
- Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor

- Elegant design with quality, reliability, and portability for SMB customers; two spindles
- Intel® Core™ i5-2430M processor (dual-core, 2.40GHz, 3MB Cache), DRR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology
- Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache).
- DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology

Memory

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

Optical SATA disk

- DVD burner, 9.5mm high, fixed, not removable, slot-in
- Some: Solid State Drive (SSD) / SATA 3.0Gbs/s, 2.5" wide, 7mm high
- Some: Hard Disk Drive / SATA 3.0Gbs/s, 2.5" wide, 7mm high, Active Protection System™
- All: removable, upgradable, Shock Mounted Hard Drive

mSATA

- None

Widescreen display

- 14.0" (355mm) HD (1366x768) color, anti-glare display with glossy infinity glass, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
- HD720p resolution, wide view angle, low light sensitive, fixed focus

Graphics

- Switches between discrete and integrated graphics,
- Intel HD Graphics 3000 in processor, and
- AMD Radeon™ HD 6630M graphics, 2GB memory,
- external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display;
- Max external resolution: 2048x1536 (VGA) @ 75Hz

Keyboard

- 6-row, spill-resistant, multimedia Fn keys

Touchpad

- UltraNav™, buttonless touchpad below keyboard, Tap Zones, scrolling regions, multi-touch
- ThinkLight™
- Illuminates the keyboard to improve visibility in low-light conditions

Dimensions

- 14.0W (WxDxH): 13.74" x 9.29" x 0.91-1.23"; 349mm x 236mm x 23.1-31.2mm
- Weight: starting at 4.22 lb (1.92kg)
- Case color: Moss Black soft touch finish, authentic metal accents
- Battery - type: Integrated Lithium Ion 4-cell, 1000 cycle battery
- Battery - life: up to 6.0 hr

Chipset

- Mobile Intel HM65 Express Chipset
- ExpressCard/34 None
- Multicard Reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
- Ports Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
- PCI Express Mini Card Two PCI Express Mini Card slots
- WWAN 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2
- Modem None
- Bluetooth™ Bluetooth 3.0 wireless
- Ethernet Realtek® RTL8111E Gigabit Network Connection
- Intel AMT None
- Audio support High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/
- mono digital microphone, combo audio/mic jack
- Security Power-on password, disk hard password, supervisor password, security keyhole
- Security chip None
- Fingerprint reader UPEK Fingerprint reader on palm rest, swipe sensor
- Limited warranty 1-year - depot repair service / service upgrades available

See footnotes for more detailed information

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WE model(s) announced January 17, 2012; previous model(s) on October 4, 2011
WE model(s) withdrawn effective May 2012
ThinkPad® Edge E520 1143 (Intel) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

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<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA GB rpm</th>
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</table>

**Positioning**

- **Processor**
  - Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i3-2330M processor (dual-core, 2.20GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i5-2410M processor (dual-core, 2.90GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i3-2310M processor (dual-core, 2.10GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology
  - Intel Core i5-2450M processor (dual-core, 2.55GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HD technology

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

- **Optical SATA disk**
  - DVD burner, 12.7mm high, fixed, not removable, tray-in

- **mSATA™ SSD**
  - None

- **Widescreen display**
  - 15.6" (396mm) HD (1366x768) color, anti-glare,

- **Camera**
  - HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator

- **Graphics**
  - Intel HD Graphics 3000 in processor,

- **Keyboard**
  - 6-row, spill-resistant, multimedia Fn keys, numeric keypad

- **TrackPoint®**
  - TrackPoint pointing device, Internet Scroll Bar®

- **Touchpad**
  - UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

- **ThinkLight™**
  - None

- **Dimensions**
  - 15.6" (396mm) HD (1366x768) color, anti-glare, Portable

- **Weight**
  - 6-cell: from 5.51 lb (2.5kg), 2.9" wide, 7mm or 9.9mm high, removable, upgradeable, Shock Mounted Hard Drive, Active Protection System™

- **Battery**
  - 6-cell or 9-cell

- **Processor Preload**
  - Some: Genuine Windows 7 Professional 64

- **Ready to install applications**
  - Some: Rescue and Recovery™

- **Preloaded applications**
  - Some: Norton™ Internet Security 2011

- **Chipset**
  - Mobile Intel HM65 Express Chipset

- **Multicard Reader**
  - 4-in-1 reader (MMC, SD, SDHC, SDXC)

- **Ports**
  - Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

- **PCell Mini Card**
  - Two PCell Express Mini Card slots

- **Carrier**
  - User selectable, contract required with service provider

- **Modem**
  - None

- **Bluetooth™**
  - Bluetooth 3.0 wireless

- **Ethernet**
  - Realtek® RTL8111E Gigabit Network Connection

- **Audio support**
  - High Definition (HD); Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2 mono digital microphone, combo audio/mic jack

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

- **Fingerprint reader**
  - Some: UPEK Fingerprint reader on palm rest, swipe sensor

- **Limited warranty**
  - 1-year - depot repair service / service upgrades available

See footnotes for more detailed information

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(G-GGR1-1) February 2013

WE model(s) announced January 17, 2012; previous model(s) on April 19, August 2, August 30, October 4 or December 13, 2011

WE model(s) withdrawn effective September 2012
## ThinkPad® Edge E520 1143 (Intel) - TopSeller (February 2012) - withdrawn

**Personal Systems Reference (PSREF)**

### Specifications

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SAVTA GB</th>
<th>PCIe Mini Card</th>
<th>PCIe Mini Card WWAN</th>
<th>Carrier</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Bluetooth cells</th>
<th>Battery - type</th>
<th>Preload</th>
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</table>

### Features

- **Small and medium business (SMB) model(s), part of the WE TopSeller™ Program**
- **Microsoft® Office 2010 Product Key Ready (O10PKR)**

### Positioning

**Processor**

- Intel® Core™ i3-2350M processor (dual-core, 2.30GHz, 3MB Cache)
- DDR3 memory controller (up to 1333MHz), HT technology

**Memory**

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

**Optical Sata disk**

- DVD burner, 12.7mm high, fixed, not removable, tray-in
- Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™

**mSATA™ SSD**

- None

**Widescreen display**

- 15.6" (396mm) HD (1366x768) color, anti-glare,
- LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**

- HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator

**Graphics**

- Intel HD Graphics 3000 in processor,
- external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content);
- supports dual independent display;
- Max external resolution: 2048x1536 (VGA) @75Hz; 1920x1200 (HDMI) @60Hz

**Keyboard**

- 6-row, spill-resistant, multimedia Fn keys, numeric keypad

**TrackPoint®**

- TrackPoint pointing device, Internet Scroll Bar

**Touchpad**

- UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

**ThinkLight™**

- None

**Dimensions**

- 15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm

**Weight**

- 6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)

**Case color**

- Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom

**Case material**

- Acrylicitrile-Butadiene-Styrene (ABS) plastic

**Battery - type**

- Lithium Ion 6-cell or 9-cell

**Battery - life**

- 6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr

**Chipset**

- Mobile Intel HM65 Express Chipset

**ExpressCard**

- One ExpressCard/34

**Multicard Reader**

- 4-in-1 reader (MMC, SD, SDHC, SDXC)

**Ports**

- Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**Preloaded operating system**

- Some: Genuine Windows® 7 Home Premium 64
- Some: Genuine Windows® 7 Professional 64

**Ready to install applications**

- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®, Adobe Acrobat®, Realtek® RTL8111E Gigabit Network Connection
- Corel® WinDVD® (DVD:RW)

**Preloaded applications**

- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®, Adobe Acrobat®, Realtek® RTL8111E Gigabit Network Connection
- Corel® WinDVD® (DVD:RW)

**Suppores ThinkVantage™ technologies**

- 65-watt AC adapter
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- International Warranty Service 24 hour x 7 day toll-free support during the warranty period

**Limited warranty**

- 1-year - depot repair service / service upgrades available

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See footnotes for more detailed information

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WE model(s) announced January 24, 2012

WE model(s) withdrawn effective September 2012
### ThinkPad® Edge E520 1143 (Intel) - TopSeller (October 2011) - withdrawn

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<td>Blue</td>
<td>6 Prem 64</td>
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</table>
| Preloaded operating system®:
  - Some: Genuine Windows® 7  
  - Some: Genuine Windows® 7  
  - Professional 64

Ready to install applications® (only some listed):
- Rescue and Recovery™
- Access Connections®
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

Preloaded applications® (only some listed):
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD±RW)
- Corel® DVD MovieFactory® Lenovo Edition (DVD±RW)

### Specifications

- Small and medium business (SMB) model(s), part of the WE TopSeller™ Program
- Microsoft® Office 2010 Product Key Ready (O10PKR)

- Positioning: Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- Processor:
  - Intel® Celeron® B800 processor (dual-core, 1.50GHz, 2MB Cache), DDR3 memory controller (up to 1333MHz)
  - Intel® Celeron® B810 processor (dual-core, 1.60GHz, 2MB Cache), DDR3 memory controller (up to 1333MHz)
  - Intel Pentium® B940 processor (dual-core, 2.00GHz, 2MB Cache), DDR3 memory controller (up to 1333MHz)
  - Intel Pentium® B950 processor (dual-core, 2.10GHz, 2MB Cache), DDR3 memory controller (up to 1333MHz)
  - Intel Pentium® B960 processor (dual-core, 2.20GHz, 2MB Cache), DDR3 memory controller (up to 1333MHz)
- Memory: 8GB max / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- Optical: DVD burner, 12.7mm high, fixed, not removable, tray-in
- SATA disk: Hard Disk Drive / SATA 3.0Gb/s, 2.5” wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
- mSATA™ SSD: None
- Widescreen display: 15.6” (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16.9 aspect ratio, 500:1 contrast ratio
- Camera: HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator
- Graphics: Intel HD Graphics in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536 (VGA) @ 75Hz; 1920x1200 (HDMI) @ 60Hz
- Keyboard: 6-row, spill-resistant, multimedia Fn keys, numeric keypad
- TrackPoint®: TrackPoint pointing device, Internet Scroll Bar®
- Touchpad: UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
- ThinkLight™: None
- Dimensions: 15.6W” (WaDxH): 14.96” x 9.78” x 1.15-1.33”; 380 x 248.5mm x 29.3-33.7mm
- Weight: 6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)
- Case color: Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
- Case material: Acrylonitrile-Butadiene-Styrene (ABS) plastic
- Battery - type®: Lithium Ion 6-cell or 9-cell
- Battery - life: 6-cell (48Whr); up to 6.2 hr; 9-cell (94Whr); up to 11.7 hr
- Chipset: Mobile Intel HM65 Express Chipset
- ExpressCard: One ExpressCard/34
- Multicard Reader: 4-in-1 reader (MMC, SD, SDHC, SDXC)
- Ports: Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
- PCie Mini Card: Two PCI Express Mini Card slots
- WLAN®: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1
- WWAN: None
- Modem: None
- Bluetooth™: Bluetooth 3.0 wireless
- Ethernet: Realtek® RTL8111E Gigabit Network Connection
- Audio support: High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack
- Security: Power-on password, hard disk password, supervisor password, security keyhole
- Security chip: None
- Fingerprint reader: Some: UPEK Fingerprint reader on palm rest, swipe sensor
- Limited warranty®: 1-year - depot repair service / service upgrades® available

See footnotes for more detailed information

WE model(s) announced June 21 or October 4, 2011; January 17, January 24, or February 28, 2012

WE model(s) withdrawn effective September 2012

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Some: EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service®
24 hour x 7 day® toll-free support during the warranty period®

1143-KLG B960 4GBx1 15.6” HD 720p 7200 TP 11b/g/n None None Matte black Finger Blue 6 Prem 64
### ThinkPad® Edge E520 1143 (Intel) - Switchable (TopSeller) - withdrawn

#### Personal Systems Reference (PSREF)

**Dimensions**
- Small and medium business (SMB) model(s), part of the WE TopSeller™ Program
- Microsoft® Office 2010 Product Key Ready (O10PKR)

**Specifications**

<table>
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<tr>
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<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera memory</th>
<th>Disk</th>
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**Preloaded operating system**
- Some: Genuine Windows® 7 Home Premium 64
- Some: Genuine Windows® 7 Professional 64

**Preloaded applications**
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD:RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

**Limited warranty**
- 1-year - depot repair service / service upgrades available during the warranty period

See footnotes for more detailed information

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WE model(s) announced January 17, 2012; previous model(s) on April 19 or October 4, 2011

WE model(s) withdrawn effective September 2012
### ThinkPad® Edge E520 1143 (Intel) - TopSeller (DOS) - withdrawn

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

| Positioning | Processor: Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i5-2430M processor (dual-core, 2.40GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology. |
|-------------| Memory: 8GB max⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets. |
| Optical SATA disk: DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™. |
| mSATA™ SSD: None |
| Widescreen display: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio | Graphics: Intel HD Graphics 3000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536 (VGA) @75Hz; 1920x1200 (HDMI) @60Hz |
| Camera: HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator |
| Keyboard: 6-row, spill-resistant, multimedia Fn keys, numeric keypad |
| TrackPoint™: TrackPoint pointing device, Internet Scroll Bar¹³ |
| Touchpad: UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch |
| ThinkLight™: None |
| Dimensions³: 15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm |
| Weight²: 6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg) |
| Case color: Matte black (top), trimmed with a thin silver band (side); black bottom |
| Case material: Acrylonitrile-Butadiene-Styrene (ABS) plastic |
| Battery - type⁷: Lithium Ion 6-cell or 9-cell |
| Battery - life: 6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr |
| Chipset: Mobile Intel HM65 Express Chipset |
| ExpressCard: One ExpressCard/34 |
| Multicard Reader: 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| Ports: Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45) |
| PCle Mini Card: Two PCI Express Mini Card slots |
| WWAN⁴: 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 1x1 |
| Modern: None |
| Bluetooth™: Bluetooth 3.0 wireless |
| Ethernet: Realtek® RTL8111E Gigabit Network Connection |
| Audio support: High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2 mono digital microphone, combo audio/mic jack |
| Security: Power-on password, hard disk password, supervisor password, security keyhole |
| Security chip: None |
| Fingerprint reader: None |
| Limited warranty: 1-year - depot repair service / service upgrades available |

See footnotes for more detailed information

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WE model(s) announced October 4, 2011 (G-GGR1-4) February 2013

WE model(s) withdrawn effective September 2012
<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera</th>
<th>Disk SATA GB rpm</th>
<th>PCIe Mini Card</th>
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</table>

* Small and medium business (SMB) model(s), part of the WE TopSeller™ Program
* Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor
Sophisticated design with quality, durability and reliability for SMB customers; two spindles

AMD Accelerated Processor E2-3000M (dual-core, 1.80GHz, 1MB L2 cache), integrated AMD Radeon HD 6380G Graphics, AMD Turbo Core technology (up to 2.40GHz), integrated DDR3 memory controller (up to 1333MHz)

AMD Accelerated Processor A4-3300M (dual-core, 1.90GHz, 2MB L2 cache), integrated AMD Radeon HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1333MHz)

AMD Accelerated Processor A6-3400M (quad-core, 1.40GHz, 4MB L2 cache), integrated AMD Radeon HD 6520G Graphics, AMD Turbo Core technology (up to 2.30GHz), integrated DDR3 memory controller (up to 1333MHz)

Preloaded operating system: Some: Genuine Windows® 7 Professional 64

Ready to install applications: Some listed

- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

Preloaded applications: Some listed

- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype® for Windows
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)
- Corel® WinDVD® (DVD+RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD+RW)

Battery - life: 6-cell (48Whr): up to 7.5 hr; 9-cell (94Whr): up to 7.4 hr

Chipset A60M FCH

See footnotes for more detailed information

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WE model(s) announced April 17, 2012; previous model(s) on August 9, 2011; January 17 or January 24, 2012
WE model(s) withdrawn effective July 2012
**ThinkPad® Edge E525 1200 (AMD) - TopSeller (DOS) - withdrawn**

<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA GB</th>
<th>Mini Card</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Bluetooth cells</th>
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</table>

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

**Positioning**
- Sophisticated design with quality, durability and reliability for SMB customers; two spindles

**Processor**
- **AMD Accelerated Processor A4-3300M** (dual-core, 1.90GHz, 2MB L2 cache), integrated AMD Radeon™ HD 6480G Graphics, AMD Turbo Core technology (up to 2.50GHz), integrated DDR3 memory controller (up to 1333MHz)

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

**Optical Sata disk**
- DVD burner, 12.7mm high, fixed, not removable, tray-in
- Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™

**Widescreen display**
- 15.6" (396mm) HD (1366x768) color, anti-glare.
- LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator

**Graphics**
- **AMD Radeon HD Graphics** in processor
- external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content);
- supports dual independent display;
- Max external resolution: 1920x1080p (HDMI) @60Hz

**Keyboard**
- 6-row, spill-resistant, multimedia Fn keys, numeric keypad

**TrackPoint®**
- TrackPoint® pointing device, Internet Scroll Bar®

**Touchpad**
- UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

**ThinkLight™**
- None

**Dimensions**
- 15.6W" (WxDxH): 14.96" x 9.78" x 1.2-1.51"; 380mm x 248.5mm x 30.6-38.3mm

**Weight**
- 6-cell: from 5.69 lb (2.58kg); 9-cell: from 6.04 lb (2.74kg)

**Case color**
- Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom

**Case material**
- Acrylonitrile-Butadiene-Styrene (ABS) plastic

**Battery - type**
- Lithium Ion 6-cell or 9-cell
- Battery - life: 6-cell (48Whr): up to 3.75 hr; 9-cell (94Whr): up to 7.4 hr

**Chipset**
- **AMD A60M FCH**

**ExpressCard**
- One ExpressCard/34

**Multicard Reader**
- 4-in-1 reader (MMC, SD, SDHC, SDXC)

**Ports**
- Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCle Mini Card**
- One PCIe Express Half Mini Card slot

**WLAN**
- 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1

**Modem**
- None

**Bluetooth™**
- Bluetooth 3.0 wireless

**Ethernet**
- Realtek® RTL8111E Gigabit Network Connection

**Audio support**
- High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack

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

**Security chip**
- None

**Fingerprint reader**
- Some: UPEK Fingerprint reader on palm rest, swipe sensor

**Limited warranty**
- 1-year - depot repair service / service upgrades available

See footnotes for more detailed information

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WE model(s) announced December 20, 2011; previous models on September 6, 2011

WE model(s) withdrawn effective July 2012

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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, PO Box 12195, RTP NC, 27709, Attn: Dept ZPY A/B676. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

1 Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.

2 Weight includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.

3 Thinness may vary at certain points on the system.

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

6 Public network download modem 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.

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

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

10 Battery: These model numbers achieved the battery life based on MobileMark® 2007 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

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

12 Internet access not included.

13 Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

14 Activating Verizon Wireless Service: Lenovo customers will be contacted after purchase to activate service; requires separate agreement with Verizon Wireless and is subject to the Customer Agreement, Calling Plan, and credit approval. Service, airtime, and early termination charges may apply. Verizon Wireless, not Lenovo, is solely responsible for service. Not available in all areas; purchaser is responsible for verifying that service is available for the intended location before purchasing a computer equipped with WAN card. Network details, coverage limitations, and maps at www.verizonwireless.com.

17 International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

18 Telephone support may be subject to additional charges, even during the limited warranty period. Response times may vary. May exclude some holidays. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, Lenovo will provide the customer a replacement part for customer installation. The parts for which onsite service is available vary by machine, but may include the processor, power supply, heat sink, system board, or base cover. For ThinkPad notebooks with EasyServ or Courier service, Lenovo will attempt to diagnose and resolve the problem remotely before sending a courier.

19 EasyServ depot repair service: In the United States call 1-800-426-7378. The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.

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.
Limited onsite service systems are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. In the United States call 1-800-426-7378.

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

Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day (NBD) response time.

Based on IEEE 802.11a and 802.11b. A customer can not upgrade to a different wireless Mini PCI adapter due to FCC regulations. Security screws prevent removal of this adapter. This wireless LAN product has been designed to permit legal operation world-wide in regions which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.

Measures only maximum data transfer rate, not application performance. Many factors affect application performance.
32 **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

35 **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/think/support and enter your machine type and model number for more information.

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