Product Specifications Reference
Lenovo® ThinkPad® S/E Notebooks
2013 to present - withdrawn

January 2014 - Version 449

ThinkPad Edge E530
### ThinkPad® Edge E430 3254 (Intel) - TopSeller - withdrawn

#### Product Specifications Reference (PSREF)

#### Type-model | Processor | Memory | Wide-screen display | Camera | Disk | SATA | Mini Card WLAN | WWAN | Mini Card mSATA | Top color | Finger | Battery | Preload | Ann date
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---
3254-DNU | i3-2350M | 4GBx1 | 14.0" HD | 720p | 320G | 7200 | Intel 2230 + BT | None | None | Black aluminum | Finger | 6 | Pro 64 | 04/12
3254-AHU | i5-2450M | 4+2GB | 14.0" HD | 720p | 320G | 5400 | TP 11b/g/n + BT | None | None | Matte black | Finger | 6 | Prem 64 | 04/12
3254-AGU | i3-2350M | 4+2GB | 14.0" HD | 720p | 500G | 5400 | TP 11b/g/n + BT | None | None | Matte black | Finger | 6 | Prem 64 | 04/12
3254-AFU | i3-2350M | 2GBx1 | 14.0" HD | 720p | 320G | 5400 | TP 11b/g/n | None | None | Matte black | Finger | 6 | Prem 64 | 04/12
3254-AEU | i5-2450M | 4GBx1 | 14.0" HD | 720p | 500G | 7200 | Intel 2230 + BT | None | None | Matte black | Finger | 6 | Prem 64 | 04/12
3254-ADU | i3-2450M | 4GBx1 | 14.0" HD | 720p | 500G | 7200 | Intel 2230 + BT | None | None | Matte black | Finger | 6 | Prem 64 | 04/12
3254-ACU | i3-2350M | 4GBx1 | 14.0" HD | 720p | 320G | 7200 | Intel 2330 + BT | None | None | Matte black | Finger | 6 | Prem 64 | 04/12
3254-ALU | i5-2450M | 4GBx1 | 14.0" HD | 720p | 500G | 7200 | Intel 2230 + BT | None | None | Matte black | Finger | 6 | Prem 64 | 04/12
3254-HUJ | i5-2450M | 4GBx1 | 14.0" HD | 720p | 500G | 7200 | Intel 2230 + BT | None | None | Matte black | Finger | 6 | Prem 64 | 05/12

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

#### Preloaded applications
- Some: Access Connections™
- Some: TrueSuite Fingerprint Software (includes password manager function)
- Some: ThinkVantage System Update
- Some: ThinkVantage Power Manager
- Some: ThinkVantage Tools
- Some: Lenovo System Update
- Some: Lenovo SimpleTap
- Some: Norton® Internet Security 2012 (30 days of virus definitions)
- Some: Adobe® Reader®
- Some: Skype™ for Windows
- Some: Corel® WinDVD® (DVD:RW)

#### See footnotes for more detailed information

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US model(s) announced April 10 or May 22, 2012

US model(s) withdrawn effective July 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk</th>
<th>SATA GB</th>
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<th>PCle Mini Card WLAN / BT</th>
<th>PCle Mini Card WWAN / mSATA</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery cells</th>
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</tbody>
</table>

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

**Ready to install applications** (only some listed):
- One Key Recovery Pro

**Preloaded applications** (only some listed):
- Access Connections™
- TrueSuite Fingerprint Software
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD:RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

See footnotes for more detailed information © Lenovo
US model(s) announced May 22, June 5, June 26 or July 31, 2012
US model(s) withdrawn effective July 2013

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

**Battery - life**: 6-row, spill-resistant, multimedia Fn keys

**Battery - type**: Aluminum

**Chipset**: Mobile Intel HM77 Express Chipset

**Disk**: 14.0" HD (1366x768) color

**Display**: 65-watt AC adapter, EPEAT™ Gold rating, ENERGY STAR® 5.0-compliant RoHS-compliant

**ENERGY STAR**: 24 hour x 7 day® toll-free support during the warranty period

**Supports ThinkVantage™ technologies**:
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD:RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

For compatible accessories, please go to O-E430 sheet;
For Lenovo® service upgrade options, please go to S-EDGE sheet

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

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**Positioning Processor**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3-3110M processor (dual-core, 2.40GHz, 3MB Cache), DDR3 memory controller (up to 1600MHz), HT technology Intel Core i5-3210M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology Intel Core i7-3612QM processor (quad-core, 2.60GHz, 6MB Cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology

**Memory**

16GB max / PC3-12800 1600MHz 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, Active Protection System™

**mSATA® v SSD**

Some: 16GB mSATA Solid State Drive (SSD), via PCle Mini Card slot

**Wide-screen display**

Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**

Some: 14.0" (355mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Graphics**

Intel HD Graphics 4000 in processor, external analog external 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 TrackPoint®**

6-row, spill-resistant, multimedia F1 keys

**Touchpad ThinkLight™**

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

**Dimensions**

Matte black or Matte red (top): 14.0W" (WxDxH): 13.36" x 9.21" x 1.08-1.29"; Aluminum

Black aluminum (top): 14.0W" (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 27.4-32.8mm

**Weight**

6-cell: from 4.74 lb (2.15kg)

**Battery - type**

6-cell (62Whr): up to 8.4 hr

**Battery - life**

6-cell (48Whr): up to 6.4 hr

**Chipset ExpressCard Multicard Reader Ports**

Mobile Intel HM77 Express Chipset

Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCle Mini Card WLAN®**

Two PCle Express Mini Card slots

Some: 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 1x1

Some: 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 2x2

**WWAN Modem**

None

**Bluetooth™**

Intel® Centrino® Wireless-N 2230, Intel® Wi-Fi + Bluetooth combo adapter, 2x2

**Ethernet**

Intel 825671F Gigabit Network Connection

High Definition Audio (HD) Audio, Conexant CX20671 codec / stereo speakers, 2 watt x 2 / stereo digital microphone, combo audio jack

**Security Security chip**

None

**Fingerprint reader**

Some: UPEK Fingerprint reader on palm rest, swipe sensor

For compatible accessories, please go to O-E430 sheet;
For Lenovo® service upgrade options, please go to S-EDGE sheet
Small and medium business (SMB) model(s), part of the US TopSeller™ Program

Positioning Processor
Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3-3110M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology

Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology

Memory
16GB max/™ - PC3-12800 1600MHz 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
Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable. Active Protection System™

Widescreen display
Some: 14.0” (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

Camera
LED720p resolution, face track, low light sensitive, fixed focus, LED indicator

Graphics
Intel HD Graphics 4000 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

TrackPoint®
TrackPoint pointing device, Internet Scroll Bar

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

Dimensions³
Matte black or Matte red (top): 14.0W” (WxDxH): 13.36” x 9.21” x 1.12-1.33”; 339.4 x 234mm x 28.5-33.9mm

Black aluminum (top): 14.0W” (WxDxH): 13.36” x 9.21” x 1.08-1.29”; 339.4 x 234mm x 27.4-32.8mm

Weight²
6-cell: from 4.74 lb (2.15kg)

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

Case material
Matte black or Matte red (top): Acrylonitrile-Butadiene-Styrene (ABS) plastic

Battery - type²⁸
Lithium Ion 6-cell

Battery - life²⁸
6-cell (48Whr): up to 6.4 hr

Chipset
Mobile Intel HM77 Express Chipset

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

Multicard Reader
Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

PCIe Mini Card
Two PCI Express Mini Card slots

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

Modem
None

Bluetooth™
Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card

Ethernet
Realtek® RTL8111F Gigabit Network Connection

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

Stereo digital microphone, combo audio/mic jack

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

Security chip
None

Fingerprint reader
UPEK Fingerprint reader on palm rest, swipe sensor

Limited warranty¹²
1-year - depot repair service / service upgrades²⁷ available

Preloaded operating system¹⁰
- Some: Windows® 8 64-bit
- Some: Windows 8 Pro 64-bit

Preloaded applications¹⁴ (only some listed)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- FingerPrint Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security
- (30 days of virus definitions)
- Microsoft Office preloaded;
- purchase a product key to activate
- Skype™

See footnotes for more detailed information © Lenovo

US model(s) announced October 23, 2012

US model(s) withdrawn effective July 2013

(LEE1-5) December 2013
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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>
<th>Pcie Mini Card WLAN / BT</th>
<th>Pcie Mini Card WWAN / mSATA</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery cells</th>
<th>Battery life (Wh)</th>
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<td>Win 8 Pro 64</td>
<td>10/12</td>
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Preloaded operating system:
- Some: Windows 7 Professional (64 preinstalled through downgrade rights in Windows 8 Pro 64-bit)
- Some: Windows 8 64-bit
- Some: Windows 8 Pro 64-bit

Preloaded applications (only some listed):
- Windows 7 models
  - Access Connections
  - ThinkVantage Power Manager
  - ThinkVantage Tools
  - Lenovo SimpleTap
  - Adobe Reader

- Windows 8 models
  - Lenovo Support
  - Lenovo Companion
  - Lenovo Cloud Storage

- All models
  - ThinkVantage System Update
  - Norton Internet Security
  - (30 days of virus definitions)
  - Skype
  - Microsoft Office preloaded; purchase a product key to activate

See footnotes for more detailed information

US model(s) announced October 23 or November 6, 2012 or February 5, 2013
US model(s) withdrawn effective July 2013


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<th>Positioning Processor</th>
<th>Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</th>
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<tbody>
<tr>
<td>Memory</td>
<td>16GB max17 / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
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<tr>
<td>Optical Sata disk</td>
<td>DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5&quot; wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™</td>
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<tr>
<td>mSataSSD</td>
<td>16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot</td>
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<tr>
<td>Widescreen display</td>
<td>14.0&quot; (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio</td>
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<tr>
<td>Camera</td>
<td>HD720p resolution, face track, low light sensitive, fixed focus, LED indicator</td>
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<tr>
<td>Graphics</td>
<td>NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA GeForce® 610M, PCI Express® x16, 1GB memory, DirectX® 11, NVIDIA PureVideo® HD technology. External monitor support via analog VGA DB-15 connector / digital HDMI connector. Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</td>
</tr>
<tr>
<td>Keyboard</td>
<td>6-row, spill-resistant, multimedia Fn keys</td>
</tr>
<tr>
<td>TrackPoint Touchpad</td>
<td>TrackPoint pointing device, Internet Scroll Bar13 UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch</td>
</tr>
<tr>
<td>ThinkLight™</td>
<td>None</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Matte black or Matte red (top): 14.0W (WxHxDxH): 13.36&quot; x 9.21&quot; x 1.12-1.33&quot;; 339.4 x 234mm x 28.5-33.9mm. Black aluminum (top): 14.0W (WxHxDxH): 13.36&quot; x 9.21&quot; x 1.08-1.29&quot;; 339.4 x 234mm x 27.4-32.8mm</td>
</tr>
<tr>
<td>Weight</td>
<td>6-cell: from 4.74 lb (2.15kg) Some: Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom Some: Black aluminum (top); black bottom Matte black or Matte red (top): Acrylonitrile-Butadiene-Styrene (ABS) plastic Black aluminum (top): Aluminum</td>
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<tr>
<td>Battery - type</td>
<td>Lithium Ion 6-cell 6-cell (48Whr): up to 6.4 hr 6-cell (62Whr): up to 8.4 hr</td>
</tr>
<tr>
<td>Chipset</td>
<td>Mobile Intel HM77 Express Chipset</td>
</tr>
<tr>
<td>ExpressCard</td>
<td>None</td>
</tr>
<tr>
<td>Multicard Reader Ports</td>
<td>4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</td>
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<tr>
<td>PCIe Mini Card WLAN</td>
<td>Two PCI Express Mini Card slots 1b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</td>
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<tr>
<td>WWAN</td>
<td>None</td>
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<tr>
<td>Modem</td>
<td>None</td>
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<tr>
<td>Bluetooth™</td>
<td>Bluetooth 4.0 wireless, integrated in selected WLAN PCIe Half Mini Card</td>
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<tr>
<td>Ethernet</td>
<td>Realtek® RTL8111F Gigabit Network Connection High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereono digital microphone, combo audio/mic jack</td>
</tr>
<tr>
<td>Audio support</td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
</tr>
<tr>
<td>Security</td>
<td>Fingerprint reader UPEK Fingerprint reader on palm rest, swipe sensor</td>
</tr>
<tr>
<td>Limited warranty</td>
<td>1-year - depot repair service / service upgrades available</td>
</tr>
</tbody>
</table>

- Small and medium business (SMB) model(s), part of the US TopSellersm Program

Preloaded operating system10 - Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit

Ready to install applications14 (only some listed)
- One Key Recovery Pro

Preloaded applications14 (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions) Adobe® Reader®
- Skype™
- Corel® WinDVD® (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
- Microsoft Office preloaded; purchase a product key to activate

See footnotes for more detailed information © Lenovo
US model(s) announced October 23, 2012
US model(s) withdrawn effective July 2013

(LEE1-4) December 2013
**Small and medium business (SMB) model(s), part of the US TopSeller™ Program**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk</th>
<th>PCle Mini Card</th>
<th>PCle Mini Card WWAN</th>
<th>Carrier</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery - type</th>
<th>Weight</th>
<th>Case material</th>
<th>Case color</th>
<th>Weight</th>
<th>Battery - life</th>
<th>Preloaded operating system</th>
<th>Preloaded applications</th>
<th>Chipset</th>
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<tbody>
<tr>
<td>3365-49U</td>
<td>i3-2328M</td>
<td>4GBx1</td>
<td>14.0&quot; HD</td>
<td>0.3M</td>
<td>320G</td>
<td>5400</td>
<td>TP 11b/g/n</td>
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<td>Black textured</td>
<td>None</td>
<td>6</td>
<td>48Whr</td>
<td>6-cell</td>
<td>Black textured</td>
<td>6.4 hr</td>
<td>6-cell (48Whr)</td>
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<td>3365-47U</td>
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<td>5400</td>
<td>TP 11b/g/n</td>
<td>None</td>
<td>Black textured</td>
<td>None</td>
<td>6</td>
<td>48Whr</td>
<td>6-cell</td>
<td>Black textured</td>
<td>6.4 hr</td>
<td>6-cell (48Whr)</td>
<td>1-hour - depot repair service / service upgrades available</td>
<td></td>
<td></td>
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</tbody>
</table>

- **Positioning Processor**: Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3-2328M processor (dual-core, 2.20GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology

- **Memory**: 16GB max / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
  * System automatically clocks down for processors with 1333MHz DDR3 memory controller

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

- **mSATA™ SSD**: None

- **Widescreen display Camera**: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio
  Camera on top of screen, 0.3-megapixel, fixed focus, low light sensitive, 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

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

- **ThinkLight™**: None

- **Dimensions**: Black textured (top): 14.0W” (WxDxH): 33.6” x 23.4” x 2.8” - 3.3”

- **Weight**: 6-cell: from 4.74 lb (2.15kg)

- **Capacity**: Black textured: black bottom

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

- **Battery - life**: 6-cell (48Whr): up to 6.4 hr

- **Chipset**: Mobile Intel HM77 Express Chipset

- **ExpressCard**: None

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

- **Ports**: Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

- **PCle Mini Card WWAN**: Two PCI Express Mini Card slots

- **Modem**: None

- **Bluetooth™**: None

- **Ethernet**: Realtek® RTL8111F Gigabit Network Connection

- **Audio support**: High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/
  Stereo 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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US model(s) announced August 7, 2012

US model(s) withdrawn effective December 31, 2013
### ThinkPad® Edge E430c 3365 (Intel) - TopSeller (Windows 8) - withdrawn

#### Product Specifications 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>
<th>PCle Mini Card WLAN / BT</th>
<th>PCle Mini Card mSATA Carrier</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery cells</th>
<th>Preload</th>
<th>Ann date (mm/yy)</th>
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<tbody>
<tr>
<td>3365-4YU</td>
<td>i3-2328M</td>
<td>4GBx1</td>
<td>14.0&quot; HD</td>
<td>720p</td>
<td>500G</td>
<td>Intel 2230 + BT</td>
<td>None</td>
<td>Black textured</td>
<td>None</td>
<td>Win7 Pro64</td>
<td>10/12</td>
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<td>Intel 2230 + BT</td>
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<td>14.0&quot; HD Glos</td>
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<td>750G</td>
<td>Intel 2230 + BT</td>
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<td>320G</td>
<td>Intel 2230 + BT</td>
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<td>Intel 2230 + BT</td>
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<td>Intel 2230 + BT</td>
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<td>Win8 Pro64</td>
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<td>320G</td>
<td>Intel 2230 + BT</td>
<td>None</td>
<td>Black textured</td>
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<td>Win8 Pro64</td>
<td>10/12</td>
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<td>720p</td>
<td>320G</td>
<td>Intel 2230 + BT</td>
<td>None</td>
<td>Black textured</td>
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<td>Win8 Pro64</td>
<td>10/12</td>
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<td>Win7 Pro64</td>
<td>01/13</td>
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</tr>
</tbody>
</table>

**Positioning**

**Processor**

- **Sophisticated design with quality, durability and reliability for SMB customers:**
  - Two spindles
  - Intel® Core™ i3-3228 processor (2 cores, 2.20GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology
  - Intel Core i3-2348M processor (2 cores, 2.30GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology

**Memory**

- 16GB max1 / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- System automatically clocks down for processors with 1333MHz DDR3 memory controller

**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, Active Protection System™

**mSATA™ SSD**

- None

**Wide-screen display**

- **Black textured (top):** 14.0W (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm
- **HD720p resolution, face track, 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

**Touchpad**

- ThinkPoint pointing device, Internet Scroll Bar13
- UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

**ThinkLight™**

- None

**Dimensions3**

- Black textured (top): 14.0W (WxDxH): 13.36" x 9.21" x 1.12-1.33"; 339.4 x 234mm x 28.5-33.9mm

**Weight6**

- 6-cell: from 4.74 lb (2.15kg)
- Black textured (top): black bottom
- Acrylonitrile-Butadiene-Styrene (ABS) plastic
- Lithium Ion 6-cell
- 6-cell (48Whr): up to 6.4 hr

**Chipset/ExpressCard**

- Mobile Intel HM77 Express Chipset
- None
- 4-in-1 reader (MMC, SD, SDHC, SDXC)
- Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCle Mini Card**

- Two PCI Express Mini Card slots
- 11b/g/n, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
- None
- None
- Bluetooth 4.0 wireless, integrated in WLAN PCle Half Mini Card
- Realtek® RTL8111F Gigabit Network Connection
- HD digital microphone, combo audio/mic jack
- Power-on password, hard disk password, supervisor password, security keyhole
- None
- None

**Limited warranty12 - 1-year - depot repair service / service upgrades**

- Depot repair service / service upgrades22 available

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See footnotes for more detailed information © Lenovo

US model(s) announced October 23, 2012 or January 15, 2013

US model(s) withdrawn effective December 31, 2013
<table>
<thead>
<tr>
<th>Accessory</th>
<th>Code</th>
<th>Date</th>
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<tbody>
<tr>
<td><strong>Memory</strong></td>
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<tr>
<td>2GB PC3-12800 DDR3 SODIMM</td>
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<td>4GB PC3-12800 DDR3 SODIMM</td>
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<td>Wireless via 2.4GHz technology using a micro-size USB receiver.</td>
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<td>Kensington® MicroSaver® Cable Lock</td>
<td>73P2582</td>
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<td>ThinkPad In-Ear Headphones with mic</td>
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<td>01/07/10</td>
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<td><strong>Modem</strong></td>
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Lenovo® ThinkPad Edge E530

Lenovo ThinkPad Edge E530

Lenovo ThinkPad Edge E530c

Lenovo ThinkPad Edge E530 and E530c
with Numeric Keypad
(Matte black, Matte red, Matte blue or Black textured)

Lenovo ThinkPad Edge E530

Lenovo ThinkPad Edge E530 without Numeric Keypad
(Black aluminum)
### ThinkPad® Edge E530 3259 (Intel) - TopSeller - withdrawn

#### Product Specifications Reference (PSREF)

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

**Ready to install applications** (only some listed)
- One Key Recovery Pro

**Preloaded applications** (only some listed)
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader
- Skype™ for Windows
- Corel® WinDVD® (DVD+RW)
- Corel® DVD MovieFactory™ Lenovo Edition (DVD+RW)

### Type-model, Processor, Memory, Disk, Camera, Display, Warranty, Preload, Date

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Disk</th>
<th>Camera</th>
<th>Display</th>
<th>Warranty</th>
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<td>Finger</td>
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### Key Features

- **Limited warranty**: 1-year - depot repair service / service upgrades available
- **Preloaded applications**: Windows 7 Professional 64
- **Ready to install applications**: One Key Recovery Pro
- **Preloaded system**: Some: Genuine Windows 7
- **Battery life**: Up to 5.7 hours
- **Dimensions**: 15.6" (WxHxD): 14.84" x 9.65" x 1.16-1.39"; 727 x 225.5 x 29.5-35.3 mm
- **Weight**: 6.5 lb (2.95 kg)
- **Processor**: Intel® Core™ i3-2350M (dual-core, 2.5 GHz, 3 MB Cache)
- **Display**: 15.6" HD (1366x768) color, anti-glare, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- **Memory**: 16GB max / PC3-12800 1600MHz DDR3, non-parity, DDR3 memory controller (up to 1333 MHz), Intel Turbo Boost 2.0 (3.10GHz)
- **Hard Drive**: 7200 RPM, 250 GB, 3.5" SATA Internal Solid State Drive (SSD)
- **WLAN**: 802.11b/g/n, PCIe Half Mini Card, ThinkPad 802.11b/g/n, 1x1
- **Ports**: Two PCI Express Mini Card slots
- **Multimedia**: Supports DVD burner, 12.7 mm thick, fixed, not removable, tray-in dual-channel capable, 204-pin SO-DIMM sockets
- **Fingerprint reader**: UPEK Fingerprint reader on palm rest, swipe sensor
- **Security**: Power-on password, hard disk password, supervisor password, security keyhole
- **Operating System**: Windows 7 Professional 64

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**See footnotes for more detailed information**

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US model(s) announced April 10 or May 22, 2012

US model(s) withdrawn effective July 2013

(GLN1-1) December 2013
## ThinkPad® Edge E530 3259 (Intel) - TopSeller - II - withdrawn

### Product Specifications Reference (PSREF)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
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<th>PCIe Mini Card</th>
<th>WWAN</th>
<th>Numeric Keypad</th>
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### Preloaded operating system
- Some: Genuine Windows® 7
- Some: Genuine Windows 7 Professional 64

### Preloaded applications
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo Simple Tap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD:RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

### Dimensions
- Some: Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
- Some: Black aluminum (top); black bottom

### Optical SADA 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, Active Protection System™

### Graphics
- Intel HD Graphics 4000 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
- Matte black or Matte red (top): 6-row, spill-resistant, multimedia fn keys, numeric keypad
- Black aluminum (top): 6-row, spill-resistant, multimedia fn keys

### Preloaded options
- Lenovo 22 service upgrade
- 24 hour x 7 day toll-free support

### Software
- Adobe® Reader®, Corel®™ Burn.Now™, Corel®™ DVD MovieFactory® Lenovo Edition, One Key Recovery Pro, 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

### Battery
- 65-watt AC adapter
- 6-hour x 7 day toll-free support during the warranty period
- For compatible accessories, please go to O-E530 sheet; For Lenovo® service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information.

US model(s) announced May 1, May 22, June 5, June 26 or July 31, 2012

US model(s) withdrawn effective July 2013

© Lenovo

(GLN1-2) December 2013
**ThinkPad® Edge E530 3259 (Intel) - TopSeller (Windows 8) - withdrawn**

**See footnotes for more detailed information**

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### Type-model | Processor | Memory | Wide-screen display | Camera | Disk SATA GB | rpm | PCIe Mini Card | PCIe Mini Card WWAN | mSATA | Numeric Keypad | Top color | Finger reader | Battery cells | Battery Wh | Preload | Ann date (mm/yy)
3259-TEU | i3-3110M | 4GBx1 | 15.6" HD | 720p | 500G | 7200 | Intel 2230 + BT | None | Numpad | Matte black | Finger 6 | 48 | Win8 64 | 10/12
3259-TFU | i3-3110M | 4GBx1 | 15.6" HD | 720p | 500G | 7200 | Intel 2230 + BT | None | Numpad | Matte black | Finger 6 | 48 | Win8 Pro64 | 10/12
3259-TGU | i5-3210M | 4GBx1 | 15.6" HD | 720p | 500G | 7200 | Intel 2230 + BT | None | Numpad | Matte black | Finger 6 | 48 | Win8 Pro64 | 10/12
3259-THU | i3-3110M | 4GBx1 | 15.6" HD | 720p | 320G | 7200 | Intel 2230 + BT | None | Numpad | Matte black | Finger 6 | 48 | Win8 Pro64 | 10/12
3259-TKU | i5-3210M | 4GBx1 | 15.6" HD | 720p | 500G | 7200 | Intel 2230 + BT | 16GB | None | Black alum | Finger 6 | 62 | Win8 Pro64 | 10/12
3259-TLU | i3-3110M | 4GBx1 | 15.6" HD | 720p | 500G | 7200 | Intel 2230 + BT | None | Numpad | Black alum | Finger 6 | 48 | Win8 Pro64 | 10/12

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

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**Positioning**

**Processor**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles (only some listed)

**Intel® Core™ i3-3110M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology**

**Memory**

- 16GB max / 204-pin SO-DIMM sockets

**Optical Sata disk**

DVDR burner, 12.7mm high, fixed, not removable, tray-in

**Intel® HD Graphics 4000, Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology**

**Graphics**

- LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Keyboard**

- TrackPoint pointing device, Internet Scroll Bar

**TrackPoint® Touchpad**

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

**ThinkLight™**

None

**Dimensions**

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

**Weight**

- 6-cell from 5.4 lb (2.45kg)

**Case material**

- Black or Matte red (top)

**Battery - type**

- Lithium Ion 6-cell

**Battery - life**

- 6-cell (48Whr): up to 5.7 hr
- 6-cell (62Whr): up to 7.5 hr

**Chipset**

Mobile Intel HM77 Express Chipset

**ExpressCard**

None

**Multicard Reader**

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

**Ports**

- Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCle Mini Card WLAN®**

- Two PCI Express Mini Card slots
- 11b/g/n, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

**WWAN**

None

**Modem**

None

**Bluetooth™**

- Bluetooth 4.0 wireless, integrated in selected WLAN PCle Half Mini Card

**Ethernet**

Realtek® RTL8111F Gigabit Network Connection

**Audio support**

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

---

**Preloaded operating system**

- Some: Windows 8 64-bit
- Some: Windows 8 Pro 64-bit

**Preloaded applications**

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- Fingerprintf Software (fingerprint models)
- ThinkVantage System Update
- Norton™ Internet Security (30 days of virus definitions)
- Microsoft Office preloaded; purchase a product key to activate;
- Skype™

---

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US model(s) announced October 23, 2012
US model(s) withdrawn effective July 2013
### ThinkPad® Edge E530 6272 (Intel) - TopSeller (Windows 8) - withdrawn

#### Product Specifications 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</th>
<th>GB rpm</th>
<th>PCle Mini Card WLAN / BT</th>
<th>PCle Mini Card mSATA</th>
<th>Numeric Keypad</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery - life</th>
<th>Battery - type</th>
<th>Case color</th>
<th>Case material</th>
</tr>
</thead>
<tbody>
<tr>
<td>6272-4SU</td>
<td>i3-3120M</td>
<td>4GBx1</td>
<td>15.6” HD</td>
<td>720p</td>
<td>320G</td>
<td>7200</td>
<td>None</td>
<td>Numpad</td>
<td>Matte black</td>
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<td>Numpad</td>
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<td>Numpad</td>
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<td>None</td>
<td>None</td>
<td>6</td>
<td>48</td>
<td>None</td>
<td>Black aluminum</td>
</tr>
</tbody>
</table>

#### Positioning

- Processor: Intel Core™ i3-3120M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology, Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.0GHz), HT technology, Intel Core i7-3612QM processor (4 cores, 2.10GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.0GHz), HT technology.

#### Memory

- 16GB max DDR3 non-parity, dual-channel capable, two 204-pin SO-DIMM sockets.

#### Optical

- 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, Active Protection System™.

#### Display

- Some: 16GB mSATA Solid State Drive (SSD), via PCle Mini Card slot.
- Some: 6-cell (62Whr): up to 5.7 hr
- Some: 6-cell (48Whr): up to 5.4 hr

#### Graphics

- Intel HD Graphics 4000 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.
- Some: 5.4 lb (2.45kg)
- Some: 15.6” HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- Some: 15.6” HD (1366x768) color, VibrantView (glossy), LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- HD720p resolution, face track, low light sensitive, fixed focus, LED indicator.

#### Keyboard

- Matte black or Matte red (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad.
- Matte black or Matte red (top): 6-row, spill-resistant, multimedia Fn keys.

#### Touchpad

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

#### Weight

- 6-cell: from 5.4 lb (2.45kg).
- Some: Matte black or Matte red (top), trimming with a thin silver band (side), black bottom.
- Some: Black aluminum (top); black bottom.

#### Case material

- Acrylonitrile-Butadiene-Styrene (ABS) plastic.
- Black aluminum (top).

#### Battery - type

- Lithium Ion 6-cell.
- 6-cell (48Whr): up to 5.7 hr.
- 6-cell (55Whr): up to 7.5 hr.

#### Chipset

- Mobile Intel HM77 Express Chipset.
- Supports ThinkVantage® technologies.
- 65-watt AC adapter.
- EPEAT® Gold rating.
- ENERGY STAR® 5.0-compliant.
- RoHS-compliant.
- International Warranty Service 17
- 24 hour x 7 day® toll-free support during the warranty period.

#### Preloaded operating system

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

#### Preloaded applications (only some listed)

- Windows 7 models.
- Access Connections™.
- ThinkVantage Power Manager.
- ThinkVantage Tools.
- Lenovo SimpleTap®
- Adobe® Reader®.

#### Windows 8 models

- Lenovo Support.
- Lenovo Companion.
- Lenovo Cloud Storage.
- All models.
- ThinkVantage System Update.
- Norton™ Internet Security (30 days of virus definitions).
- Skype®.
- Microsoft Office preloaded; purchase a product key to activate.

See footnotes for more detailed information.

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US model(s) announced October 23, November 6 or December 4, 2012
US model(s) withdrawn effective July 2013.
<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>
<th>PCIe Mini Card WWAN</th>
<th>PCIe Mini Card LAN/WAN</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery Preload</th>
<th>Ann date (mm/yyyy)</th>
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<tbody>
<tr>
<td>6272-7VU</td>
<td>i3-3130M</td>
<td>4GBx1</td>
<td>15.6&quot; HD</td>
<td>720p</td>
<td>320G</td>
<td>7200</td>
<td>None</td>
<td>Matte black</td>
<td>None</td>
<td>Win7 Pro</td>
<td>02/13</td>
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<tr>
<td>6272-7UU</td>
<td>i3-3230M</td>
<td>4+2GB</td>
<td>15.6&quot; HD</td>
<td>720p</td>
<td>750G</td>
<td>5400</td>
<td>None</td>
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<td>6272-7TU</td>
<td>i5-3230M</td>
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<td>Finger print</td>
<td>Win8 Pro</td>
<td>02/13</td>
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<td>i5-3210M</td>
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<td>7200</td>
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<td>None</td>
<td>Win7 Pro</td>
<td>02/13</td>
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<td>320G</td>
<td>7200</td>
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<td>None</td>
<td>Win7 Pro</td>
<td>03/13</td>
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<td>6272-8MU</td>
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<td>15.6&quot; HD</td>
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<td>320G</td>
<td>7200</td>
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<td>Matte black</td>
<td>None</td>
<td>Win8 Pro</td>
<td>04/13</td>
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<td>6272-8LU</td>
<td>i3-2348M</td>
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<td>None</td>
<td>Win7 Pro</td>
<td>04/13</td>
</tr>
<tr>
<td>6272-8DU</td>
<td>i3-2348M</td>
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<td>15.6&quot; HD</td>
<td>720p</td>
<td>320G</td>
<td>7200</td>
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<td>None</td>
<td>Win8 Pro</td>
<td>04/13</td>
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<tr>
<td>6272-64U</td>
<td>i5-2430M</td>
<td>8GBx1</td>
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<td>None</td>
<td>Matte black</td>
<td>None</td>
<td>Win7 Pro</td>
<td>06/13</td>
</tr>
</tbody>
</table>

Fingerprint reader

Security chip

Audio support

Ethernet

Modem

Bluetooth

Battery life

Case color

Weight

Dimensions

Memory

Optical drive

SATA disk

mSATA SSD

Widescreen display

Camera

Graphics

Processor

Positioning

Keyboard

TrackPoint

Touchpad

ThinkLight

Chipset

ExpressCard/34

MultiCard Reader

Ports

PCIe Mini Card

WLAN

Modem

Audio

Security

Fingerprint reader

Limited warranty

Preloaded operating system

Preloaded applications

- Intel® Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology
- Intel Core i3-3130M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology
- Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 3500MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology
- Intel Core i5-3230M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology

- Windows 7 models
- Access Connections
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader

- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo Mobile Access
- Lenovo Cloud Storage

- All models
  - ThinkVantage System Update
  - Norton™ Internet Security
  - Windows RT
  - Microsoft Office preloaded; purchase a product key to activate

Some: UPEK Fingerprint reader on palm rest, swipe sensor

Some: 24 hour x 7 day toll-free support

ENERGY STAR

- Lenovo 22 service upgrade go to O-E530 sheet;
- For compatible accessories, please purchase a product key to activate

- Supports 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

For compatible accessories, please go to O-E530 sheet; for Lenovo service upgrade options, please go to S-EDGE sheet
Small and medium business (SMB) model(s), part of the US TopSeller™ Program

<table>
<thead>
<tr>
<th>Positioning Processor</th>
<th>Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i5-3210M processor (2 cores, 2.50GHz, 3MB cache). Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Memory</td>
<td>16GB max² / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
</tr>
<tr>
<td>Optical SATA disk</td>
<td>DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5&quot; wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™</td>
</tr>
<tr>
<td>mSATA™ SSD</td>
<td>None</td>
</tr>
<tr>
<td>Widescreen display</td>
<td>Some: 15.6&quot; (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio. Some: 15.6&quot; (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio. HD720p resolution, face track, low light sensitive, fixed focus, LED indicator</td>
</tr>
<tr>
<td>Camera</td>
<td>NIVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA GeForce® 610M, PCI Express® x16, 1GB memory, DirectX® 11, NVIDIA PureVideo® HD technology, External monitor support via analog VGA DB-15 connector / digital HDMI connector Max external resolution: 2048x1536 (VGA) @75Hz; 1920x1200 (HDMI) @60Hz</td>
</tr>
<tr>
<td>Keyboard</td>
<td>Matte black, Matte red or Matte blue (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad</td>
</tr>
<tr>
<td>TrackPoint® Touchpad</td>
<td>TrackPoint pointing device, Internet Scroll Bar™ UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch</td>
</tr>
<tr>
<td>ThinkLight™</td>
<td>None</td>
</tr>
<tr>
<td>Dimensions³</td>
<td>Matte black, Matte red or Matte blue (top): 15.6&quot;W (WxDxH): 14.84&quot; x 9.65&quot; x 1.16-1.39&quot;; 377 x 245mm x 29.5-35.3mm</td>
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<tr>
<td>Weight⁴</td>
<td>6-cell: from 5.47 lb (2.48kg)</td>
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<tr>
<td>Case color</td>
<td>Matte black, Matte red or Matte blue (top), trimmed with a thin silver band (side); black bottom</td>
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<tr>
<td>Case material</td>
<td>Acrylonitrile-Butadiene-Styrene (ABS) plastic</td>
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<tr>
<td>Battery - type⁷</td>
<td>Lithium Ion 6-cell</td>
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<tr>
<td>Battery - life¹⁵</td>
<td>6-cell (62Whr): up to 7.3 hr</td>
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<tr>
<td>Chipset</td>
<td>Mobile Intel HM77 Express Chipset</td>
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<tr>
<td>ExpressCard</td>
<td>None</td>
</tr>
<tr>
<td>Multicard Reader</td>
<td>4-in-1 reader (MMC, SD, SDHC, SDXC)</td>
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<tr>
<td>Ports</td>
<td>Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</td>
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<tr>
<td>PCIe Mini Card WLAN⁶</td>
<td>Two PCI Express Mini Card slots: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2</td>
</tr>
<tr>
<td>WWAN</td>
<td>None</td>
</tr>
<tr>
<td>Modem</td>
<td>None</td>
</tr>
<tr>
<td>Bluetooth™</td>
<td>Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card</td>
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<tr>
<td>Ethernet</td>
<td>Realtek® RTL8111F Gigabit Network Connection</td>
</tr>
<tr>
<td>Audio support</td>
<td>High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack</td>
</tr>
<tr>
<td>Security</td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
</tr>
<tr>
<td>Security chip</td>
<td>None</td>
</tr>
<tr>
<td>Fingerprint reader</td>
<td>UPEK Fingerprint reader on palm rest, swipe sensor</td>
</tr>
<tr>
<td>Limited warranty¹⁶</td>
<td>1-year - depot repair service / service upgrades²² available</td>
</tr>
</tbody>
</table>

See footnotes for more detailed information
## ThinkPad® Edge E530c 3366 (Intel) - TopSeller - withdrawn

### Product Specifications 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</th>
<th>PCIe Mini Card</th>
<th>PCIe Mini Card WWAN</th>
<th>Numeric Keypad</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery cells</th>
<th>Preload</th>
<th>Ann date (mm/dd/yyyy)</th>
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<tbody>
<tr>
<td>3366-2YU</td>
<td>i3-2328M</td>
<td>4GBx1</td>
<td>15.6&quot; HD 0.3M</td>
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<td>500G</td>
<td>None</td>
<td>None</td>
<td>Numpad</td>
<td>Black textured</td>
<td>None</td>
<td>6</td>
<td>Pro 64</td>
<td>08/12</td>
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<tr>
<td>3366-2WU</td>
<td>i3-2328M</td>
<td>4GBx1</td>
<td>15.6&quot; HD 0.3M</td>
<td>320G</td>
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<td>Black textured</td>
<td>None</td>
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<td>i3-2328M</td>
<td>2GBx1</td>
<td>15.6&quot; HD 0.3M</td>
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<td>500G</td>
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<td>None</td>
<td>Numpad</td>
<td>Black textured</td>
<td>None</td>
<td>6</td>
<td>Pro 64</td>
<td>08/12</td>
</tr>
</tbody>
</table>

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

### Positioning

**Processor**

- **Intel® Core™ i3-2328M processor (dual-core, 2.20GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology**

### Memory

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

### Optical Drive

- 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, 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

### 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)

### Keyboard

- Black textured (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad

### Touchpad

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

### Dimensions

- Black textured (top): 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm

### Weight

- 6-cell: from 5.4 lb (2.45kg); 377 x 245mm x 29.5-35.3mm

### Case Color

- Black textured (top); black bottom

### Case Material

- Acrylonitrile-Butadiene-Styrene (ABS) plastic

### Battery - type

- Lithium Ion 6-cell

### Battery - life

- 6-cell (48Whr): up to 5.7 hr

### Chipset

- Mobile Intel HM77 Express Chipset

### ExpressCard

- None

### Multicard Reader

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

### Ports

- Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

### PCle Mini Card

- Two PCI Express Mini Card slots: 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 1x1

### WWAN

- None

### Modern

- None

### Bluetooth

- Realtek™ RTL8111F Gigabit Network Connection

### Audio Support

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

### 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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See footnotes for more detailed information: © Lenovo

US model(s) announced August 7, 2012

US model(s) withdrawn effective December 31, 2013

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Preloaded operating system:
- Genuine Windows 7 Professional 64

Ready to install applications (only some listed):
- One Key Recovery Pro

Preloaded applications (only some listed):
- Access Connections™
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Corel® WinDVD® (DVD+RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD+RW)

Supports ThinkVantage® technologies:
- ENERGY STAR® 5.0-compliant
- RoHS-compliant
- 65-watt AC adapter
- EPEAT® Gold rating
- 24 hour x 7 day 18 toll-free support during the warranty period®

For compatible accessories, please go to O-E530 sheet;

For Lenovo® service upgrade options, please go to S-EDGE sheet.
<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</th>
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Preloaded operating system:
- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows® 8 Pro 64-bit
- Some: Windows® 8 Pro 64-bit

Preloaded applications (only some listed):
- Windows® 7 models
  - Access Connections™
  - ThinkVantage Power Manager
  - ThinkVantage Tools
  - Lenovo SimpleTap
  - Adobe® Reader™
- Windows® 8 models
  - Lenovo Support
  - Lenovo Companion
  - Lenovo Cloud Storage

- All models
  - ThinkVantage System Update
  - Norton™ Internet Security (30 days of virus definitions)
  - Skype™
  - Microsoft Office preloaded; purchase a product key to activate

See footnotes for more detailed information © Lenovo

US model(s) announced October 23, 2012 or January 15, 2013
US model(s) withdrawn effective December 31, 2013

(GLN1c-2) January 2014
### ThinkPad® Edge E535 3260 (AMD) - TopSeller - withdrawn

#### Type-model

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</table>

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

#### Ready to install applications
- One Key Recovery Pro

#### Preloaded applications
- Access Connections
- TrueSuite FingerPrint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton Internet Security 2012 (30 days of virus definitions)
- Adobe Reader
- Skype for Windows
- Corel® WinDVD® (DVD±RW)
- Corel DVD MovieFactory™ Lenovo Edition (DVD±RW)
- Microsoft Office preloaded; purchase a product key to activate

#### Support for Lenovo services
- depot repair service / service upgrades available
- 24 hour x 7 day toll-free support
- For compatible accessories, please go to O-E530 sheet
- For Lenovo service upgrade options, please go to S-EDGE sheet

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*Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
## Product Specifications Reference (PSREF)

### ThinkPad® Edge E535 3260 (AMD) - TopSeller (Windows 8) - withdrawn

<table>
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<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>
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<td>15.6&quot; HD 720p</td>
<td>500G</td>
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<td>TP</td>
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<td>Matte black</td>
<td>Finger</td>
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<td>Win8 Pro64</td>
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<tr>
<td>3260-DGU</td>
<td>A4-4300M</td>
<td>4GBx1</td>
<td>15.6&quot; HD 720p</td>
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### Positioning
- **Processor**
  - **AMD Accelerated Processor A4-4300M** (dual-core, 2.50GHz, 1MB L2 cache), integrated AMD Radeon HD 7420G Graphics, AMD Turbo Core technology (up to 3.00GHz), integrated DDR3 memory controller (up to 1600MHz)
  - **AMD Accelerated Processor A4-4600M** (dual-core, 2.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7520G Graphics, AMD Turbo Core technology (up to 3.20GHz), integrated DDR3 memory controller (up to 1600MHz)
  - **AMD Accelerated Processor A8-4500M** (quad-core, 1.90GHz, 4MB L2 cache), integrated AMD Radeon HD 7640G Graphics, AMD Turbo Core technology (up to 2.80GHz), integrated DDR3 memory controller (up to 1600MHz)

### 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;
- **external resolution**: 1920x1080 (VGA) @ 60Hz; 1920x1200 (HDMI) @ 60Hz
- **Kilobyte**
  - Matte black or Matte red (top): 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
- **Width**
  - Matte black or Matte red: 15.6W (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm
- **Weight**
  - 6-cell: from 5.4 lb (2.45kg)
- **Case color**
  - Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
- **Active Protection System**
  - Acrylonitrile-Butadiene-Styrene (ABS) plastic

### Chipset
- **ExpressCard**
  - None
- **Multicard Reader**
  - 4-in-1 reader (MMC, SD, SDHC, SDXC)
- **Battery - type**
  - Lithium Ion 6-cell
- **Battery - life**
  - 6-cell (48Whr): up to 6.0 hr

### PCle Mini Card WLAN
- One PCI Express Mini Card slot
- **Some**: 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 1x1
- **Some**: 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1

### WWAN
- None

### Bluetooth™
- **Some**: Bluetooth 4.0 wireless, integrated in selected WLAN PCle Half Mini Card Realtek® RTL8111F Gigabit Network Connection

### Power-on password, hard disk password, supervisor password, security keyhole
- For compatible accessories, please go to O-E530 sheet; for Lenovo® service upgrade options, please go to S-EDGE sheet

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See footnotes for more detailed information © Lenovo

US model(s) announced October 23, 2012 or May 21, 2013

US model(s) withdrawn effective December 31, 2013

(GLN11-2) January 2014
ThinkPad® Edge E530, E535 Accessories - withdrawn

Memory
- 2GB PC3-12800 DDR3 SODIMM: 0A65722, ann 06/05/12
- 4GB PC3-12800 DDR3 SODIMM: 0A65723, ann 06/05/12

Storage and removable storage
- USB 2.0 Portable 500GB Hard Disk: 45K1690, ann 05/26/09
- USB 3.0 Secure 500GB Hard Drive: 0A65619, ann 11/29/11
- USB 3.0 Secure 750GB Hard Drive: 0A65616, ann 11/29/11
- USB 3.0 Secure 1TB Hard Drive: 0A65621, ann 08/28/12
- E530 Only: ThinkPad 16GB mSATA Solid State Cache Drive: 0B47309, ann 12/11/12

ThinkPad Expansion
- Lenovo® Essential Notebook Stand: 45J9292, ann 05/12/09
- USB 2.0 Port Replicator with Digital Video: 0A33942, ann 03/22/11

Keyboard
- TrackPoint Cap Collection: 73P2698, ann 12/16/03
- Ultraslim Plus Wireless Keyboard and Mouse: 0A34032, ann 04/05/11
  " Wireless via 2.4GHz technology using a micro-size USB receiver.
- Lenovo Numeric Keypad: 33L3225, ann 05/01/00
- Preferred Pro USB Keyboard: 73P5220, ann 06/21/05
- Enhanced Performance USB Keyboard: 73P2620, ann 03/23/04
- ThinkPad USB Keyboard with TrackPoint: 55Y9003, ann 08/18/09
- Lenovo USB Fingerprint Keyboard: 73P4730, ann 02/22/05
- Lenovo USB Smartcard Keyboard: 51J0155, ann 03/24/09

Mouse
- ThinkPad Bluetooth Laser Mouse: 0A36407, ann 06/26/12
- Lenovo Optical Mouse (USB): 06P4069, ann 05/21/03
- Lenovo Laser Mouse (USB): 41J3074, ann 01/23/07
- ThinkPad USB Laser Mouse: 57Y4635, ann 12/15/09
- Lenovo ScrollPoint® Mouse (USB, Optical): 31P7405, ann 08/27/02
- ThinkPad Travel Mouse (USB, Optical): 31P7410, ann 06/04/02
- Lenovo Wireless Laser Mouse: 0A36188, ann 12/20/11
  " Wireless via 2.4GHz technology using a micro-size USB receiver.

Security
- 3M 15.6W Privacy Filter from Lenovo: 0A61771, ann 04/05/11
- Kensington® MicroSaver® Cable Lock: 73P2582, ann 12/29/03
- Kensington Twin Head Cable Lock: 45K1620, ann 09/30/08
- Lenovo Security Cable Lock: 57Y4303, ann 08/24/10
- USB Gemplus GemPC Smart Card Reader: 41N3040, ann 02/21/06

Multimedia
- ThinkPad In-Ear Headphones with mic: 57Y4488, ann 01/07/10

Modem
- USB 2.0 Lenovo Modem: 43R8141, ann 02/26/08

Batteries
- ThinkPad Battery 75+ (6-cell): 0A36311, ann 04/10/12
- ThinkPad External Battery Charger: 40Y7625, ann 09/20/05
  " Requires the ThinkPad 90W AC Adapter 40Y7659 or the adapter provided with the system.

Carrying Cases
- Up to 15.6" widescreen models:
  • Lenovo Messenger Max: 41U5253, ann 05/01/07
  • Lenovo Performance BackPack: 41U5254, ann 05/01/07
  • ThinkPad Business Topload Case: 43R2476, ann 05/13/08
  • ThinkPad Business Backpack: 43R2482, ann 05/13/08
  • ThinkPad Deluxe Expander Case: 43R2478, ann 05/13/08
  • ThinkPad Executive Leather Case: 43R2480, ann 05/13/08
  • Lenovo Sport Backpack - Red: 0A33896, ann 02/28/12
  • Lenovo Sport Slimcase - Red: 0A33897, ann 02/28/12
  • Lenovo Sport Messenger - Red: 0A33898, ann 02/28/12
  • Lenovo Sport Backpack - Blue: 0B47296, ann 08/28/12
  • Lenovo Sport Slimcase - Blue: 0B47300, ann 08/28/12
  • Lenovo Sport Messenger - Blue: 0B47299, ann 08/28/12
  • Lenovo Sport Backpack - Grey: 0B47301, ann 08/28/12
  • Lenovo Sport Slimcase - Grey: 0B47303, ann 08/28/12
  • Lenovo Sport Messenger - Grey: 0B47302, ann 08/28/12

Monitors
- ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D): 2448MB6, ann 09/13/11
- ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0): 1452DS6, ann 08/16/11

Monitor Accessories
- Lenovo USB Soundbar: 0A36190, ann 05/01/12
- Lenovo HDMI to HDMI Monitor Cable: 0B47070, ann 05/22/12
- Lenovo HDMI to VGA Monitor Cable: 0B47069, ann 06/26/12
- Lenovo USB 3.0 to DVI/VGA Monitor Adapter: 0B47072, ann 08/14/12
- Kensington MicroSaver Cable Lock: 73P2582, ann 12/29/03
- Kensington Twin Head Cable Lock: 45K1620, ann 09/30/08
- Lenovo Security Cable Lock: 57Y4303, ann 08/24/10
- Lenovo Easy Reach Monitor Stand: 55Y9258, ann 09/22/09

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4949:
- iPod and iPhone Charge Tip (L10a): 41R4481, ann 12/18/07
- Generic Micro USB charge tip (L18): 41R4490, ann 01/06/09

For more information on accessories:
www.lenovo.com/accessories
www.lenovo.com/support/accessories
www.lenovo.com/support/monitoraccessories
www.lenovo.com/support/cases
www.lenovo.com/support/poweradapters
www.lenovo.com/support/monitoraccessories
www.lenovo.com/support/monitors
www.lenovo.com/support/monitors

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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.
5 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.
6 Maximum memory capacity may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems Windows XP Professional 64-bit and Windows Vista 64-bit Editions.
7 Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
8 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.
9 Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
10 Internet access not included.
11 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.
12 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.
13 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.
14 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 varies 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.
15 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.
16 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.

ThinkPlus Services: These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part will be express shipped to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See ThinkPlus terms and conditions for complete details and restrictions.

Activating AT&T Wireless Service: Requires separate agreement with AT&T, subject to service agreement, rate plan and coverage maps. AT&T, not Lenovo, is solely responsible for service. Coverage not available in all areas; AT&T BroadbandConnect available in select metropolitan markets. Special credit and tenure restrictions and additional charges may apply to international roaming. A network connection, third-party software, additional hardware, and/or subscription to a third-party service may be required for certain solutions/applications. Additional restrictions apply, including early termination fee; see www.wireless.att.com for details. To activate call Lenovo Wireless Activation Hot Line at 1-877-299-4710.

The IEEE 802.11n specification (MIMO) has not been finalized and is currently in draft release. The ThinkPad 11a/b/g/n (11n) Wireless LAN Mini PCI Express Adapters are based on the Draft Release, Version 1.02, of the IEEE 802.11n specification. The Intel Mini PCI Express Adapters are based on the Draft Release, Version 2.0 of the IEEE 802.11n specification. 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, or 11a/b/g/n can communicate on any of its supported formats.

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](http://lenovo.com/think/support) and enter your machine type and model number for more information.

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