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2013 to present - withdrawn

May 2014 - Version 454 (Western Europe)
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Summary of Changes

This section describes the withdrawn products which are added in this edition and in previous editions.

May 27, 2014 - Version 454

► Withdrawn product(s)
   E130/E135 are withdrawn and added in the book
   E330/E335 are withdrawn and added in the book
ThinkPad Edge E130, E135
<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Screen type</th>
<th>Camera</th>
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**Positioning Processor**
Sophisticated design with quality, durability and reliability for SMB customers; one spindle Intel® Pentium® 977 processor (2 cores, 1.40GHz, 2MB cache), Intel HD Graphics, DDR3 memory controller (up to 1333MHz)

**Optical SATA disk**
None

**Battery** 6-cell (62.4Whr): up to 8.5 hr

**Audio support**
- Intel® HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2 watt x 2 / monaural digital microphone, combo audio/mic jack
- Power-on password, hard disk password, supervisor password, security keyhole
- Security chip
- Fingerprint reader

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

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

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**Product Specifications Reference (PSREF)**

**Supported operating system**
- Some: No operating system
- Some: DOS-Lic.
- Some: Genuine Windows® 7 Home Premium 64
- Some: Genuine Windows® 7 Professional 64

**Ready to install applications**
(Windows 7 models; only some listed)
- OneKey Recovery Pro
- Password Manager

**Preloaded applications**
(Windows 7 models; only some listed)
- Lenovo® Solution Center
- Lenovo Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- TrueSuite™ (fingerprint motors
- ThinkVantage System Update
- ThinkVantage Power Manager
- Lenovo Cloud Storage

**Summary**
- Lenovo SimpleTap
- Norton™ Internet Security 2012
- 24 hour x 7 day toll-free support
- Lenovo Small Business Advantage
- RapidBoot HDD Accelerator
- Symanetc™ VIP
- Windows Live™ Essentials
- Microsoft® Office preloaded;
- purchase a product key to activate

See footnotes for more detailed information

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WE model(s) announced May 29, June 12, August 7 or October 2, 2012; March 19 or April 16, 2013

WE model(s) withdrawn effective April 1, 2014
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**Positioning**

- **Processor**
  - Sophisticated design with quality, durability and reliability for SMB customers; one spindle Intel® Pentium® 997 processor (2 cores, 1.60GHz, 2MB cache), Intel HD Graphics, DDR3 memory controller (up to 1333MHz)
  - **Intel Core™ i3-2365M processor (2 cores, 1.40GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology**
  - Intel Core i3-3237M processor (2 cores, 1.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology
  - **Intel Core i3-3217U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology**

**Memory**

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

**Optical**

- **SATa disk**
  - None
- Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Active Protection System
- **mSATA™ drive**
  - 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot

**Widescreen display**

- **Some:** 11.6" (295mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 40:1 contrast ratio
- **Some:** 11.6" (295mm) HD (1366x768) color, VIBRANTVIEW (glossy), LED backlight, 200 nits, 16.9 aspect ratio, 50:1 contrast ratio

**Camera**

- HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

**Graphics**

- **Intel HD Graphics, Intel HD Graphics 3000 or 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® pointing device, Internet Scroll Bar
- **Touchpad**
  - None
  - UltraNav™, buttonless touchpad below keyboard, multi-touch

**Thinklight™**

- None

**Dimensions**

- 11.6W (WxDxH): 11.30" x 8.35" x 0.85-0.91"; 287mm x 212mm x 21.7-23mm

**Weight**

- 6-cell: from 3.40 lb (1.54kg)
- 9-cell: from 5.09 lb (2.31kg)

**Battery - type**

- Acrylonitrile-Butadiene-Styrene (ABS) plastic
- Lithium ion 6-cell, HW Authentication
- 6-cell: 20hr x 2 watt / 6.5 hours

**Chips**

- Mobile Intel HM77 Express Chipset
- 4-in-1 reader (MMC, SD, SDHC, SDXC)
- Two USB 3.0, one powered USB 2.0, external monitor (VGA DB-15, HDMI)
- **PCle Mini Card**
  - Two PCI Express Mini Card slots
  - **PCle WIFI™**
  - Intel Centrino® Wireless-N 2230, 2x2, Wi-Fi + BT combo adapter

**SIM card**

- User selectable, contract required with service provider
- **Modern**
  - None
- **Bluetooth™**
  - 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
- **Ethernet**
  - Realtek® RTL8111F Gigabit Network Connection
- **Audio support**
  - HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2
  - **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

---

**Preloaded operating system**

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

**Preloaded applications**

- 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 (30 days of virus definitions)
  - Skype
  - Microsoft Office preloaded; purchase a product key to activate

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See footnotes for more detailed information

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WE model(s) announced October 23, 2012 or January 22, 2013

WE model(s) withdrawn effective April 1, 2014

(G-DT1-2) May 2014
### ThinkPad Edge E130 3358 (Intel) - T (Win 8) - II - withdrawn

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</tbody>
</table>

### Positioning

**Processor**

Sophisticated design with quality, durability and reliability for SMB customers; one spindle Intel® Core™ i3-3217U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology

Intel Core i3-3217U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology

Intel Core i3-3272U processor (2 cores, 1.90GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology

**Memory**

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

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

**Optical**

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

**SATA disk**

Active Protection System™

**mSATA™ SSD**

None

**Widescreen display**

Some: 11.6" (295mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 40:1 contrast ratio

Some: 11.6" (295mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 200 nits, 16.9 aspect ratio, 50:1 contrast ratio

**Camera**

HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

**Graphics**

Intel HD Graphics 3000 or 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 Bar13

**Touchpad**

UltraNav™, buttonless touchpad below keyboard, multi-touch

**ThinkLight™**

None

**Dimensions**

- 11.6W" (WxDxH): 11.30" x 8.35" x 0.85-0.91" (287mm x 212mm x 21.7-23mm)

**Weight**

6-cell: from 3.40 lb (1.54kg)

**Case material**

Acrylonitrile-Butadiene-Styrene (ABS) plastic

**Battery - type**

Lithium Ion 6-cell, HW Authentication

**Battery - life**

6-cell (62.4Whr): up to 8.5 hr

**Chips**

Mobile Intel HM77 Express Chipset

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

**ExpressCard**

None

**Multicard Reader**

None

**Ports**

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

**PCIe Mini Card**

Two PCI Express Mini Card slots

**PCIe WLAN**

Two PCI Express Half Mini Card, ThinkPad a/b/g/n, 2x2, Wi-Fi + BT combo adapter

**PCIe WWAN**

Some: Wireless WAN, Ericsson H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/EDGE/WCDMA/HSPA/HSPA+, GPS

**SIM card**

Some: User selectable, contract required with service provider

**Modem**

None

**Bluetooth™**

Some: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

**Ethernet**

Realtek® RTL8111F Gigabit Network Connection

**Intel AMT**

None

**Audio support**

HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2 watt x 2 / monaural digital microphone, combo audio/mic jack

**Security**

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

**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 February 19, March 19 or May 21, 2013

WE model(s) withdrawn effective April 1, 2014
### Product Specifications Reference (PSREF)

#### ThinkPad Edge E135 3359 (AMD) - TopSeller - withdrawn

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Screen display</th>
<th>Camera</th>
<th>Disk</th>
<th>SATA GB* rpm</th>
<th>PCle Mini Card</th>
<th>WLAN</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Bluetooth</th>
<th>Battery cells</th>
<th>Preload</th>
<th>Ann Date (mm/yy)</th>
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<td>07/12</td>
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</table>

- **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-300 (dual-core, 1.30GHz, 1MB L2 cache), integrated AMD Radeon HD 6310 Graphics, integrated DDR3 memory controller (up to 1066MHz)
AMD Accelerated Processor E2-1800 (dual-core, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, integrated DDR3 memory controller (up to 1333MHz)

Memory: 8GB max / 4GBx1, 11.6" HD anti-glare 720p, 320G 7200 TP 11a/b/g/n Black, None BT 6 Prem 64 07/12

- **Ready to install applications** (only some listed)
  - Lenovo SimpleTap
  - Lenovo Solution Center
  - Lenovo Message Center Plus
  - ThinkVantage Product Recovery
  - Access Connections™
  - ThinkVantage System Update
  - ThinkVantage Power Manager
  - Lenovo Cloud Storage
  - Evernote®
  - RapidBoot HDD Accelerator
  - Symantec™ VIP
  - Windows Live™ Essentials
  - Microsoft Office preloaded; purchase a product key to activate

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

#### Optical

SATA disk: None
SATA drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, removable, upgradeable, Active Protection System™

#### Widescreen display

Some: 11.6" (295mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 400:1 contrast ratio

#### Camera

Camera: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

#### Graphics

AMS Radeon HD 6310 or 7340 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
- ThinkLight™: UltraNav™, buttonless touchpad below keyboard, multi-touch

#### Dimensions

- **6-cell (62.4Whr):** up to 8.5 hr
- **Battery life:** 6-cell (62.4Whr) up to 8.5 hr
- **Battery:** Lithium Ion 6-cell, HW Authentication
- **Battery life:** 6-cell (62.4Whr): up to 8.5 hr

#### Chipset

Chips: AMD A68M FCH Chipset

#### ExpressCard

ExpressCard: None

#### Multicard Reader

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

#### PCle Mini Card

PCle Mini Card: One PCI Express Mini Card slot
PCle WLAN*: One PCI Express Mini Card slot

#### PCle WWAN

PCle Card: None

#### SIM card

Modem: None

#### Bluetooth™

Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

#### Audio support

Audio: HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 2 watt x 2 / monaural digital microphone, combo audio/mic jack

#### Security

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

#### Fingerprint reader

Fingerprint reader: None

#### Limited warranty

1-year - depot repair service / service upgrades available

See footnotes for more detailed information

© Lenovo (G-DT11-1) May 2014

WE model(s) announced July 10, 2012

WE model(s) withdrawn effective April 1, 2014
## ThinkPad Edge E135 3359 (AMD) - T (DOS) - withdrawn

**Product Specifications Reference (PSREF)**

### Preloaded operating system
- DOS-Lic.

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

### Processor

<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
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<th>Wide-screen display</th>
<th>Screen type</th>
<th>Camera</th>
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<th>rpm</th>
<th>PCIe Mini Card</th>
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### Memory

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

### Graphics
- AMD Radeon HD 6310 or 7340 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

### Keyboards
- 6-row, spill-resistant, multimedia Fn keys
- TrackPoint® pointing device, Internet Scroll Bar
- UltraNav™, buttonless touchpad below keyboard, multi-touch

### Dimensions
- 16.69 mm (WxDxH): 11.30 x 8.35 x 0.85-0.91
- 287mm x 212mm x 21.7-23mm

### Weight
- 3.40 lb (1.54kg)
- 1.54 kg

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

### Battery - type
- Lithium Ion 6-cell, HW Authentication

### Battery - life
- 6-cell (62.4Whr): up to 8.5 hr
- 8.5 hr

### Chipset
- AMD A68M FCH Chipset

### Preloaded operating system
- DOS-Lic.

### Security chip
- None

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

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

See footnotes for more detailed information

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WE model(s) announced July 10, 2012; March 19 or April 16, 2013

WE model(s) withdrawn effective April 1, 2014
<table>
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<th>Type-model</th>
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<th>PCIe Mini Card WLAN</th>
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<td>Win8 Pro</td>
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</tbody>
</table>

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

Processor: AMD Accelerated Processor E2-1800 (dual-core, 1.70GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, DDR3 memory controller (up to 1333MHz)

AMD Accelerated Processor E2-2000 (dual-core, 1.75GHz, 1MB L2 cache), integrated AMD Radeon HD 7340 Graphics, 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: None

mSATA SSD: None

Wide-screen display: Some: 11.6" (295mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16.9 aspect ratio, 400:1 contrast ratio

Some: 11.6" (295mm) HD (1366x768) color, VibrantView (glossy), LED backlight, 200 nits, 16.9 aspect ratio, 500:1 contrast ratio

Camera: HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics: AMD Radeon HD 7340 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

Dimensions: 11.6"W (WxDxH): 11.30" x 8.35" x 0.85-0.91"; 287mm x 212mm x 21.7-23mm

Weight: 6-cell: from 3.40 lb (1.54kg)

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

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

Battery - type: Lithium Ion 6-cell, HW Authentication

Battery - life: 6-cell (62.4Whr): up to 8.5 hr

Chipset: AMD A68M FCH Chipset

ExpressCard: None

Multicard Reader: None

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

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

PCle Mini Card: One PCI Express Mini Card slot

PCle WLAN: None

Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter

Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT combo adapter

PCle WWAN: None

SIM card: None

Modern: None

Bluetooth: Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter

Ethernet: Realtek RTL8111F Gigabit Network Connection

Audio support: HD Audio, Realtek ALC3202 codec, Dolby® Advanced Audio® v2 / stereo speakers, 2 watt x 2 / monaural 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

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: 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

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

See footnotes for more detailed information

WE model(s) announced October 23, 2012 or February 19, 2013

WE model(s) withdrawn effective April 1, 2014

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(G-DT11-3) May 2014
ThinkPad Edge E330, E335

Lenovo® ThinkPad Edge E330

Lenovo ThinkPad Edge E330

Lenovo ThinkPad Edge E330

Lenovo ThinkPad Edge E330

Lenovo ThinkPad Edge E330

Lenovo ThinkPad Edge E335
## ThinkPad Edge E330 3354 (Intel) - TopSeller - withdrawn

### Product Specifications Reference (PSREF)

**Type-model** | **Processor** | **Memory** | **Display** | **Audio** | **Security** | **Battery** | **Prefeed date** | **Ann date (mm/yy)***
---|---|---|---|---|---|---|---|---
3354-4SG | i3-2370M | 4GBx1 | 13.3” HD | Intel AMT | | | | 05/12
3354-4RG | i3-2370M | 4GBx1 | 13.3” HD | Black | | | Prem 64 | 05/12
3354-4OG | i3-2370M | 4GBx1 | 13.3” HD | None | | | Pro 64 | 05/12
3354-95G | Pen B970 | 4GBx1 | 13.3” HD | None | | | Red | 06/12
3354-96G | i3-2370M | 4GBx1 | 13.3” HD | None | | | Black | 08/12
3354-99G | i3-2370M | 4GBx1 | 13.3” HD | None | | | Black | 08/12

#### Positioning
- **Processor**: Sophisticated design with quality, durability and reliability for SMB customers; one spindle Intel® Pentium® B970 processor (2 cores, 2.3GHz, 2MB cache), Intel HD Graphics, DDR3 memory controller (up to 1333MHz)
- **Intel Core™ i3-2328M processor (2 cores, 2.1GHz, 3MB cache)**, Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology
- **Intel Core i3-2370M processor (2 cores, 2.4GHz, 3MB cache)**, Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology

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

#### Optical
- **Hard Disk Drive / SATA 3.0Gb/s, 2.5” wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™**
- **mSATA™ SSD**

#### Widescreen display
- **13.3” (338mm) HD (1366x768) color**, anti-glare, LED backlight, 200 nit, 16:9 aspect ratio, 500:1 contrast ratio
- **HD720p resolution, wide view angle, low light view, face tracking, fixed focus**

#### Graphics
- **Intel HD Graphics or 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
- **Intel HD Graphics** or **Intel HD Graphics 3000** in processor, **HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus**
- **LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio**
- **Wide-viewport, HD (1366x768) color (338mm)**

#### Chipset
- **Mobile Intel HM77 Express Chipset**

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

#### Port
- **USB 3.0 port, one powered USB 2.0**, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
- **Two PCI Express Mini Card slots**, **thinkpad a/b/g/n, 2x2, Wi-Fi / BT combo adapter**, **5.0-compliant technologies**
- **Wireless WAN, Ericsson H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA+ / HSPA+**, **65-watt AC adapter**
- **Supports ThinkVantage® technologies**

#### SIM card
- **User selectable, contract required with service provider**
- **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**

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

---

*Small and medium business (SMB) model(s), part of the WE TopSeller™ Program*
## ThinkPad Edge E330 3354 (Intel) - T - II - withdrawn

### Product Specifications Reference (PSREF)

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

<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>
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<th>SIM card</th>
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<td>DOS-Lic.</td>
<td>08/12</td>
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</tr>
</tbody>
</table>

*Positioning*

**Processor**

Sophisticated design with quality, durability and reliability for SMB customers; one spindle Intel\textsuperscript{TM} Core\textsuperscript{TM} 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**

8GB max\textsuperscript{7} / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

**Optical**

None

**SATA disk**

Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System\textsuperscript{TM}

**mSATA\textsuperscript{TM} SSD**

None

**Widescreen display**

13.3" (338mm) HD (1366x768) color, anti-glare.

**Camera**

LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Graphics**

Intel HD Graphics 4000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI\textsuperscript{TM} (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\textsuperscript{TM}**

TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar\textsuperscript{13}

**Touchpad**

UltraNav\textsuperscript{TM}, buttonless touchpad below keyboard

**Dimensions\textsuperscript{3}**

13.3"W (WxDxH): 12.67" x 8.98" x 0.79-1.09"; 322 x 228mm x 20-27.8mm

**Weight\textsuperscript{2}**

6-cell: from 3.97 lb (1.80kg)

**Case color**

Midnight black (top), trimmed with a thin silver band (side); black bottom

**Case material**

Acrylonitrile-Butadiene-Styrene (ABS) plastic

**Battery - type\textsuperscript{2}**

Lithium Ion 6-cell, HW Authentication

**Battery - life\textsuperscript{14}**

6-cell (62.4 Whr): up to 7.5 hr

**Chipset**

Mobile Intel HM77 Express Chipset

**ExpressCard**

None

**Multicard Reader**

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

**Ports**

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

**Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System\textsuperscript{TM}**, Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology

**Preloaded operating system\textsuperscript{10}**

- Some: DOS-Lic.
- Some: Genuine Windows 7 Professional 64

**Ready to install applications\textsuperscript{14}**

(Windows 7 models; only some listed)

- OneKey Recovery Pro
- Password Manager

**Preloaded applications\textsuperscript{14}**

(Windows 7 models; only some listed)

- Access Connections\textsuperscript{14}
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton\textsuperscript{TM} Internet Security 2012 (30 days of virus definitions)
- Adobe\textsuperscript{®} Reader\textsuperscript{®}
- Skype\textsuperscript{TM} for Windows
- Microsoft Office preloaded; purchase a product key to activate

**Preloaded applications\textsuperscript{14}**

- Access Connections\textsuperscript{14}
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- Skype\textsuperscript{TM} for Windows
- Microsoft Office preloaded; purchase a product key to activate

**Lenovo**

Genuine Windows 7

- Some: Windows 7 models
- Some: Windows 8 models

**Password Manager**

- Some: DOS-Lic.
- Some: Genuine Windows 7 Professional 64

**Security**

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

**Audio support**

High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 2 watt x 2/ dual array digital microphone, combo audio/mic jack

**Security**

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

**Security**

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

**Fingerprint reader**

None

**Limited warranty\textsuperscript{15}**

- 1-year - depot repair service / service upgrades\textsuperscript{20} available

See footnotes for more detailed information

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WE model(s) announced June 26 or August 28, 2012

WE model(s) withdrawn effective April 1, 2014

(G-PRN1-2) May 2014
<table>
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<th>Wide-screen display</th>
<th>Camera</th>
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</table>

Positioning

Processor

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

Intel® Pentium® B980 processor (2 cores, 2.40GHz, 2MB cache), Intel HD Graphics, DDR3 memory controller (up to 1333MHz)

Intel Core™ i3-2328M processor (2 cores, 2.0GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology

Intel Core™ i3-2348M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), 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

8GB max7 / 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

Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradeable, Active Protection System™

mSATA SSD

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

Wide-screen display

Camera

13.3" (338mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

HD 200p resolution, wide view angle, low light sensitive, face tracking, fixed focus

Graphics

Intel HD Graphics, Intel HD Graphics 3000 or 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

TrackPoint®

6-row, spill-resistant, multimedia Fn keys

Touchpad

UltraNav™, buttonless touchpad below keyboard

ThinkLight™

None

Dimensions

Weight

3.6lb (1.63kg)

3354-BNG: 12.67" x 8.98" x 0.79-1.09"; 322 x 228mm x 20-27.8mm

Case material

Acrylonitrile-Butadiene-Styrene (ABS) plastic

Battery - type®

Lithium Ion 6-cell, HW Authentication

Battery - life®

65-85 Whr (2.4 Whr): up to 7.5 hr

Chipset

ExpressionCard

Mobile Intel HM77 Express Chipset

Multicard Reader

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

Ports

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

Pcie Mini Card

Two PCI Express Mini Card slots

Pcie WLAN

Some: 11a/b/g/n, Pcie Half Mini Card, ThinkPad a/b/g/n, 2x2, Wi-Fi / BT combo adapter

Pcie WWAN

Some: Wireless WAN, Ericsson® HS321gw Mobile Broadband Module, Pcie Half Mini Card, GPRS/WCDMA/HSPA+/HSPA+, GPS

SIM card

Some: User selectable, contract required with service provider

Modem

None

Bluetooth™

Supports ThinkVantage® technologies

65-watt AC adapter

EPEAT® Gold rating

ENERGY STAR® 5.0-compliant

RoHS-compliant

International Warranty Service

24 hour x 7 day10 toll-free support during the warranty period

Limited warranty

1-year - depot repair service / service upgrades available

See footnotes for more detailed information
Type-model | Processor | Memory | Wide-screen display | Camera | Disk | SATA | GB' rpm | PCIe Mini Card WLAN / BT | PCIe Mini Card WWAN /mSATA | SIM card | Top color | Battery cells | Preload | Ann date (mm/yy)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
3354-DZG i3-3120M 4GBx1 | 13.3'' HD | 270p | 500G 7200 | Intel 2230 + BT | None | None | Black | 6 | DOS-Lic. | 02/13
3354-DYG i3-2348M 4GBx1 | 13.3'' HD | 270p | 500G 5400 | TP 11a/b/g/n + BT | None | None | Black | 6 | Win8 64 | 02/13
3354-DXG i3-2348M 4GBx1 | 13.3'' HD | 270p | 500G 5400 | Intel 2230 + BT | None | None | Black | 6 | Win7 Pro64 | 02/13
3354-DWG i3-3120M 4GBx1 | 13.3'' HD | 270p | 500G 7200 | TP 11a/b/g/n + BT | None | None | Red | 6 | Win8 64 | 02/13
3354-DVG i3-3120M 4GBx1 | 13.3'' HD | 270p | 500G 7200 | Intel 2230 + BT | None | None | Black | 6 | Win7 Pro64 | 02/13
3354-DUJ G i3-3120M 4GBx1 | 13.3'' HD | 270p | 500G 7200 | Intel 2230 + BT | Ericsson | Selectable | Black | 6 | Win7 Pro64 | 02/13
3354-DTG i5-3310M 4+4GB | 13.3'' HD | 270p | 750G 5400 | Intel 2230 + BT | None | None | Blue | 6 | Win8 64 | 02/13
3354-DXG i3-2348M 4GBx1 | 13.3'' HD | 270p | 500G 7200 | Intel 2230 + BT | Ericsson | Selectable | Black | 6 | Win7 Pro64 | 02/13
3354-EGG i5-3230M 4GBx2 | 13.3'' HD | 270p | 500G 7200 | Intel 2230 + BT | None | None | Black | 6 | Win7 Pro64 | 02/13
3354-E9G i3-3110M 4GBx1 | 13.3'' HD | 270p | 500G 5400 | Intel 2230 + BT | None | None | Black | 6 | Win8 64 | 02/13
3354-E8G i3-3110M 4GBx1 | 13.3'' HD | 270p | 500G 5400 | Intel 2230 + BT | None | None | Black | 6 | Win7 Pro64 | 02/13
3354-EGG i5-3230M 4GBx2 | 13.3'' HD | 270p | 500G 7200 | Intel 2230 + BT | None | None | Black | 6 | Win7 Pro64 | 02/13

**Positioning**

**Processor**
Sophisticated design with quality, durability and reliability for SMB customers; one spindel

Intel® Core™ i3-3348M processor (2 cores, 2.30GHz, 3MB cache), Intel HD Graphics 3000,

DDR3 memory controller (up to 1333MHz), HT technology

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 i5-3120M processor (2 cores, 2.30GHz, 3MB cache), Intel HD Graphics 4000,

DDR3 memory controller (up to 1600MHz), 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

**Memory**

8GB max / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable,

two 204-pin SO-DIMM sockets

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

**Optical**

SATA disk
Hard Disk Drive / SATA 3.0Gb/s, 2.5” wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™

mSATA™ SSD
None

**Widescreen display**

Camera
13.3” (338mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

HD7200 resolution, wide angle, low light sensitive, face tracking, fixed focus

**Graphics**

Intel HD Graphics 3000 or Intel HD Graphics 4000 Internal 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**

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

TrackPoint pointing device, “Press-to-Select,” Internet Scroll Bar®

Touchpad
UltraNav™, buttonless touchpad below keyboard

ThinkLight™
None

**Dimensions**

Weight
6-cell: from 3.97 lb (1.80kg)

Midnight black, Heatwave red or Arctic blue (top), trimmed with a thin silver band (side); black bottom

**Battery - type**

Acrylonitrile-Butadiene-Styrene (ABS) plastic

Lithium Ion 6-cell, HW Authentication

**Chipset**

Mobile Intel HM77 Express Chipset

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

Two USB 3.0 port, one powered USB 2.0,

external monitor (VGA DB-15, HDMI), ethernet (RJ-45)

**PCle Mini Card**

Two PCIe Express Mini Card slots

Some: 11b/g/n, PCle Half Mini Card, ThinkPad a/b/g/n, 2x2, Wi-Fi / BT combo adapter

Some: 11b/g/n, PCle Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2,

Wi-Fi / BT combo adapter

**PCle WWAN**

Some: Wireless WAN, Ericsson® HS321gw Mobile Broadband Module, PCle Half Mini Card,

GPRS/WCDMA/HSPA/HSPA+, GPS

**SIM card**

None

**Modem**

Some: User selectable, contract required with service provider

**Modem**

Bluetooth®
Bluetooth 4.0 wireless, integrated in WLAN PCle Half Mini Card

Ethernet
Gigabit ethernet, Realtek® RTL8111F

**Intel AMT**

None

**Audio support**

HD Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 2 watt x 2/
dual array digital microphone, combo audio/mic jack

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

Security chip
None

Fingerprint reader
None

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

---

Preloaded operating system

- Some: DOS-Lic.
- Some: Windows® 7 Professional
downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 8 64-bit

Preloaded applications

(listed, exclude DOS models)

- Windows 7 models
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- All models(exclude DOS models)
- ThinkVantage System Update
- Norton™ Internet Security
 (30 days of virus definitions)
- Skype™
- Microsoft Office preloaded; purchase a product key to activate

Lenovo Support

- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage

Preloaded applications

(listed, exclude DOS models)

Windows 8 models

- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

Windows 7 models

- Access Connections™
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Adobe® Reader®

Technical specifications and product specifications are subject to change without notice.

See footnotes for more detailed information

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WE model(s) announced May 21, or December 17, 2013

WE model(s) withdrawn effective April 1, 2014

(G-PRN1-6) May 2014
<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 SATA GB/ rpm</th>
<th>PCIe Mini Card WLAN / BT</th>
<th>PCIe Mini Card WWAN / mSATA</th>
<th>SIM card</th>
<th>Top color</th>
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</table>

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

---

- Preloaded operating system\textsuperscript{10}
  - Genuine Windows\textsuperscript{®} 7 Home Premium 64

- Ready to install applications\textsuperscript{14} (only some listed)
  - OneKey Recovery Pro
  - Password Manager

- Preloaded applications\textsuperscript{14} (only some listed)
  - Access Connections\textsuperscript{™}
  - ThinkVantage System Update
  - ThinkVantage Power Manager
  - ThinkVantage Tools
  - Lenovo SimpleTap
  - Norton\textsuperscript{™} Internet Security 2012 (30 days of virus definitions)
  - Adobe\textsuperscript{®} Reader\textsuperscript{®}
  - Skype\textsuperscript{®} for Windows

---

See footnotes for more detailed information.
**ThinkPad Edge E330 3354 (Intel) - Opt (T) - Win 8 - withdrawn**

Product Specifications Reference (PSREF)

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<th>Camera</th>
<th>Disk SATA GB rpm</th>
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</table>

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

Preloaded operating system*

- Windows 8 64-bit

Preloaded applications** (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

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WE model(s) announced October 23, 2012
WE model(s) withdrawn effective April 1, 2014

(G-PRN1-5) May 2014

**Positioning**

- Sophisticated design with quality, durability and reliability for SMB customers; one spindle 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**

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

**Optical**

- None

**SATA disk**

- Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™

**mSATA™ SSD**

- 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot

**Widescreen display**

- 13.3" (338mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**

- HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

**Graphics**

- 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

**Keyboard**

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

**TrackPoint® Pointing Device**

- TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar

**Touchpad**

- UltraNav™, buttonless touchpad below keyboard

**ThinkLight™**

- None

**Dimensions**

- 13.3W (WxDxH): 12.67" x 8.98" x 0.79-1.09"; 322 x 228mm x 20-27.8mm

**Weight**

- 6-cell: from 3.97 lb (1.80kg)

**Case color**

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

**Battery - type**

- Acrylonitrile-Butadiene-Styrene (ABS) plastic

**Battery - life**

- Lithium Ion 6-cell, HW Authentication

**Chipset**

- Mobile Intel HM77 Express Chipset

**ExpressCard**

- None

**Multicard Reader**

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

**Ports**

- Two USB 3.0 port, one powered USB 2.0, external monitor support via analog VGA DB-15 connector / digital HDMI connector

**PCIe Mini Card**

- Two PCI Express Mini Card slots

**PCIe WLAN**

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

**PCIe WWAN**

- None

**SIM card**

- None

**Modem**

- None

**Bluetooth™**

- Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card

**Ethernet**

- Gigabit ethernet, Realtek® RTL8111F

**Intel AMT**

- None

**Audio support**

- High Definition (HD) Audio, Realtek ALC269 codec / stereo speakers, 2 watt x 2, dual array 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

Supports ThinkVantage® technologies

- 90-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
**Small and medium business (SMB) model(s), part of the WE TopSeller\textsuperscript{TM} Program**

<table>
<thead>
<tr>
<th>Positioning</th>
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See footnotes for more detailed information.

WE model(s) announced July 17, 2012.

WE model(s) withdrawn effective April 1, 2014.

© Lenovo (G-PRN11-1) May 2014.
## ThinkPad Edge E335 3355 (AMD) - T (Win 8) - withdrawn

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<th>Camera</th>
<th>Disk</th>
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<td>5400</td>
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<td>Red</td>
<td>6</td>
<td>Windows 8 Pro64-bit</td>
<td>10/12</td>
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</table>

**Positioning**

**Processor**

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

AM/DA Accelerated Processor E2-1800 (dual-core, 1.70GHz, 1MB L2 cache), integrated AMD Radeon™ HD 7340 Graphics, DDR3 memory controller (up to 1333MHz).

**Memory**

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

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

**Optical**

SATA disk

Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm 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, 500:1 contrast ratio.

**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: 2048x1536 (VGA) @60Hz; 1920x1200 (HDMI) @60Hz.

**Keyboard**

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

**TrackPoint®**

TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar®.

**ThinkLight™**

buttonless touchpad below keyboard.

**Dimensions**

13.3W" (WxDxH): 12.67" x 8.98" x 0.79-1.09"; 322 x 228mm x 20-27.7mm.

6-cell: from 3.97 lb (1.80kg)

**Weight**

6-cell: from 3.97 lb (1.80kg)

**Battery - type**

Lithium Ion 6-cell, HW Authentication.

6-cell (62.4 Whr): up to 7.5 hr.

**Chipset**

AMD A68M FCH.

**ExpressCard**

None.

**Multicard Reader**

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

**Ports**

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

**Limited warranty**

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

---

See footnotes for more detailed information.

WE model(s) announced October 23, 2012 or February 19, 2013

(© Lenovo)
ThinkPad E530, E530c, E535

Lenovo® ThinkPad Edge E530

Lenovo ThinkPad Edge E530

Lenovo ThinkPad Edge E530 (Matte black, Matte red or Matte blue)

Lenovo ThinkPad Edge E530 without Numeric Keypad (Black aluminum)
### ThinkPad Edge E530 (Intel) - T - withdrawn

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

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

#### Preloaded applications
- 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 Burn.Now (DVD+RW)
- Corel DVD MovieFactory (DVD+RW)

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<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera</th>
<th>Disk</th>
<th>SATA</th>
<th>GB/ rpm</th>
<th>PCIe Mini Card</th>
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<td>Matte black</td>
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</table>

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

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**Positioning**

- Processor: Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel Core i3/i5-2520M processor (dual-core, 2.5GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology, Intel Core i3-2350M processor (dual-core, 2.3GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology, Intel Core i3-2370M processor (dual-core, 2.4GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology, Intel Core i5-2520M processor (dual-core, 2.5GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.1GHz), HT technology Intel Core i5-2520M processor (dual-core, 2.5GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.1GHz), 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 Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System
- None

**Mount** SSD

- None

**Widescreen display**

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

**Camera**

- 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

**Graphics**

- TrackPoint pointing device, Internet Scroll Bar
- UltraNav, wide touchpad below keyboard, Tap Zones, multi-touch
- None

**Dimensions**

- 6-cell: from 5.4 lb (2.45kg)
- Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
- Matte black or Matte red (top):
  - 15.6" (WxHxD): 14.84" x 9.65" x 1.16-1.39"
  - 377 x 245mm x 29.5-35.3mm

**Weight**

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

**Chipset**

- Mobile Intel HM77 Express Chipset

**ExpressCard**

- Mobile Intel HM77 Express Chipset

**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)

**PCiE Mini Card**

- Two PCI Express Mini Card slots
- 11b/g/n, PCIe Half Mini Card, Intel Centrino Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
- WWAN: Wireless WAN, Ericsson H5321gw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS
- SIM card: Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required
- Bluetooth: Lenovo Bluetooth 4.0 wireless, integrated in WLAN PCIe Mini Card
- Ethernet: 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: UPEK Fingerprint reader on palm rest, swipe sensor

**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 April 24, May 15, May 29 or July 3, 2012

US model(s) withdrawn effective December 31, 2013

(G-GLN1-1) February 2014
**Small and medium business (SMB) model(s), part of the WE TopSeller\textsuperscript{10} Program**

<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\textsuperscript{1} rpm</th>
<th>PCIe Mini Card WWAN</th>
<th>PCIe Mini Card mSATA SIM card</th>
<th>Numeric Keypad</th>
<th>Top color</th>
<th>Finger Print reader</th>
<th>Preload</th>
<th>Ann date (mm/mn/yyyy)</th>
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<tr>
<td>3259-9UG</td>
<td>B960</td>
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<tr>
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<td>B970</td>
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**Positioning Processor**
- Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- Intel Pentium \textsuperscript{®} B960 processor (2 cores, 2.20GHz, 2MB Cache), Intel HD Graphics, DDR3 memory controller (up to 1333MHz)
- Intel Pentium B970 processor (2 cores, 2.30GHz, 2MB Cache), Intel HD Graphics, DDR3 memory controller (up to 1333MHz)
- Intel Core \textsuperscript{®} i3-2328M processor (2 cores, 2.0GHz, 3MB Cache), Intel HD Graphics 3000, 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 Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradeable, Active Protection System\textsuperscript{10}

**mSATA\textsuperscript{TM} SSD**
- None

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

**Camera**
- LED backlit, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- Some: Camera on top of screen, 0.3-megapixel, fixed focus
- Some: HD720p resolution, face track, low light sensitive, fixed focus, LED indicator

**Graphics**
- Intel HD Graphics or Intel HD Graphics 3000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI\textsuperscript{TM} (supporting HDCP to output protected content); supports dual independent displays;
- 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
- TrackPoint\textsuperscript{®} pointing device, Internet Scroll Bar\textsuperscript{13}
- Touchpad
- UltraNav\textsuperscript{™}, wide touchpad below keyboard, Tap Zones, multi-touch
- ThinkLight\textsuperscript{™}

**Dimensions**
- Matte black or Matte red (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)

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

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

**Battery - life**
- 6-cell (48Whr): up to 5.4 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)

**PCle Mini Card**
- Two PCIE Express Mini Card slots
- Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1
- Some: 11b/g/n, PCIe 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 WLAN PClEs Half Mini Card

**Ethernet**
- Realtek\textsuperscript{®} 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**
- Security chip
- None

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

**Limited warranty**
- 1-year - depot repair service / service upgrades\textsuperscript{22} available

See footnotes for more detailed information

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WE model(s) announced April 10, May 22, August 7 or August 28, 2012

US model(s) withdrawn effective December 31, 2013
### ThinkPad Edge E530 (Intel) - T - III - withdrawn

#### Product Specifications Reference (PSREF)

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<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera</th>
<th>Disk SATA GB</th>
<th>rpm</th>
<th>PCIe Mini Card WL/ BT</th>
<th>PCIe Mini Card mSATA</th>
<th>Numeric Keypad</th>
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<th>Battery - life</th>
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- Small and medium business (SMB) model(s), part of the WE TopSeller™ Program

<table>
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<th>Positioning</th>
<th>Processor</th>
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<th>Sata disk</th>
<th>mSATA SSD</th>
<th>Memory</th>
<th>Preloaded operating system</th>
<th>Preloaded applications</th>
<th>Ready to install applications</th>
<th>Preloaded applications preparation</th>
<th>Preloaded applications completion time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</td>
<td>Intel® Core™ i5-3210M processor (dual-core, 2.50GHz, 3MB Cache)</td>
<td>DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</td>
<td>Intel HD Graphics 4000 in processor, external analog monitor support via VESA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display;</td>
<td>Max external resolution: 2048x1536 (VGA) @75Hz; 1920x1200 (HDMI) @60Hz</td>
<td>DVD burner, 12.7mm high, fixed, not removable, tray-in</td>
<td>Hard Disk Drive / SATA 3.0Gb/s, 2.5” wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™</td>
<td>Some: 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot</td>
<td>16GB max* / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets</td>
<td>External analog monitor support via VESA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display;</td>
<td>GENUINE Windows 7 Professional 64</td>
<td>One Key Recovery Pro</td>
<td>Only some listed</td>
<td>Only some listed</td>
<td>24 hour x 7 day toll-free support</td>
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</table>

- 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 Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

### See footnotes for more detailed information

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G-GLN1-4 February 2014
### ThinkPad Edge E530 3259 (Intel) - T (Win 8) - withdrawn

- **Preloaded operating system**: 
  - Some: Windows 8 64-bit
  - Some: Windows 8 Pro 64-bit
- **Preloaded applications**: (only some listed)
  - Lenovo Support
  - Lenovo Companion
  - Lenovo Mobile Access
  - Lenovo Cloud Storage
  - Password Manager
  - Fingerprint Software (fingerprint models)
  - ThinkVantage System Update
  - Norton™ Internet Security
  - Microsoft Office preloaded; purchase a product key to activate
  - Skype™

### Features
- **Processor**: Sophisticated design with quality, durability and reliability for SMB customers; two spindles, Intel® Pentium® B960 processor (2 cores, 2.40GHz, 2MB cache), Intel HD Graphics, DDR3 memory controller (up to 1333MHz), Intel Core™ i3-2328M processor (2 cores, 2.2GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1600MHz), HT technology
- **Memory**: 16GB max (up to 32GB), PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 20-pin SO-DIMM sockets
- **Widescreen display**: 15.6" (396mm) (HD+) (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- **Graphics**: Intel HD Graphics, Intel HD Graphics 3000 or 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**: Matte black or Matte red (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad
- **Touchpad**: UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch
- **Dimensions**: Matte black or Matte red (side): 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm
- **Weight**: 6.67 lb (3.03kg)
- **Chipset**: Mobile Intel HM77 Express Chipset
- **PCle Mini Card**: Two PCI Express Mini Card slots

### Specifications

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processors</th>
<th>Memory</th>
<th>Disk</th>
<th>PCIe Mini Card</th>
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See footnotes for more detailed information

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(G-GLN1-8) February 2014
### ThinkPad Edge E530 3259 (Intel) - Opt (T) - withdrawn

**Product Specifications Reference (PSREF)**

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<thead>
<tr>
<th>Type-model</th>
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<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk</th>
<th>SATA GB</th>
<th>rpm</th>
<th>PCle Mini Card</th>
<th>PCle Mini Card WWAN</th>
<th>BMW</th>
<th>Numeric Keypad</th>
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<th>Finger print reader</th>
<th>Battery cells Preload</th>
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<td>6</td>
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</table>

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

- Preloaded operating system™
  - Genuine Windows 7 Professional 64
- 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™ for Windows
  - Corel® WinDVD® (DVD±RW)
  - Corel® DVD MovieFactory® Lenovo Edition (DVD±RW)

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

### Processor
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 Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™

### Graphics
NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 3000 in processor, and NVIDIA GeForce® GT 630M, PCI Express® x16, 2GB 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

### Keyboard
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

### Dimensions³
Matte black or Matte red (top): 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm

### Weight²
6-cell: from 5.47 lb (2.48kg)

### 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 - type²
Lithium Ion 6-cell

### Battery - life¹⁰
6-cell: (48Whr): up to 5.5 hr

### Chipset
Mobile Intel HM77 Express Chipset

### ExpressCard
None

### Multicard Reader Ports
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

### WWAN
None

### Modem
None

### Bluetooth™
Bluetooth 4.0 wireless, integrated in WLAN PCle 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
UEPK Finger print reader on palm rest, swipe sensor

### Limited warranty12 1-year - depot repair service / service upgrades20 available

See footnotes for more detailed information
WE model(s) announced April 10, 2012
US model(s) withdrawn effective December 31, 2013

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(G-GLN1-2) February 2014
<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>
<th>rpm</th>
<th>PCIe Mini Card WL AN / BT</th>
<th>PCIe Mini Card /mSATA SIM card</th>
<th>Numeric Keypad</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery life</th>
<th>Battery type</th>
<th>Case material</th>
<th>Case color</th>
<th>Dimensions</th>
<th>TrackPoint®</th>
<th>Touchpad</th>
<th>ThinkLight®</th>
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<tr>
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<td>i7-3612QM</td>
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<td>5400</td>
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<td>Matte blue</td>
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<td>Prem 64 05/12</td>
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<td>Pro 64 06/12</td>
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<td>6-cell (48Whr): up to 5.5 hr</td>
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<td>6-cell (62Whr): up to 7.3 hr</td>
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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
- 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, 2.10GHz, 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
- 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, upgradeable, Active Protection System™
- Some: 16GB mSATA Solid State Drive (SSD), via PCIe Mini Card slot

Widescreen display
- Some: 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 50:1 contrast ratio
- LED backlight, 220 nits, 16:9 aspect ratio, 50:1 contrast ratio
- HD2720p resolution, face track, low light sensitive, fixed focus, LED indicator

Graphics
- NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics
- Intel HD Graphics 4000 in processor, and NVIDIA GeForce® GT 630M, PCI Express x16, 2GB 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

Keyboard
- Matte black, Matte red or Matte blue (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad
- TrackPoint® pointing device, Internet Scroll Bar
- UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

Dimensions³
- Matte black, Matte red or Matte blue (top): 15.6"W (WxDxH): 14.84 x 9.65 x 1.16-1.39; 377 x 245mm x 29.5-35.3mm

Weight²
- 6-cell: from 5.47 lb (2.48kg)
- Matte black, Matte red or Matte blue (top), trimmed with a thin silver band (side); black bottom
- Acrylonitrile-Butadiene-Styrene (ABS) plastic
- Lithium Ion 6-cell
- 6-cell (48Whr): up to 5.5 hr
- 6-cell (62Whr): up to 7.3 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 W LAN⁴
- Two PCI Express Mini Card slots
- 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2
- Modern None
- Bluetooth™ 4.0 wireless, integrated in WLAN PCle Mini Card
- Ethernet 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 UPEK Fingerprint reader on palm rest, swipe sensor

Limited warranty¹² 1-year - depot repair service / service upgrades² available

See footnotes for more detailed information © Lenovo

WE model(s) announced May 1 or June 5, 2012
US model(s) withdrawn effective December 31, 2013

(©GLN1-5) February 2014
<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>
<th>PCIe Mini Card</th>
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</table>

**Widescreen display**
- **Some:** 15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
- **Some:** 15.6" (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

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

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

**Chipset**
- Mobile Intel HM77 Express Chipset

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

**WWAN**
- None

**Modern**
- None

**Ethernet**
- 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

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

**Limited warranty**
- 1-year - depot repair service / service upgrades available
- 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™ i5-3210M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology.

**Memory**
- 16GB max^1 / 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 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, 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**
- Matte black or Matte red (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad

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

**ThinkLight™**
- None

**Dimensions**
- Matte black or Matte red (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);
- Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
- Acrylonitrile-Butadiene-Styrene (ABS) plastic

**Battery - type**
- Lithium Ion 6-cell
- 6-cell (48Whr): up to 5.7 hr

**Battery - life**
- Mobile Intel HM77 Express Chipset

**Ports**
- 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
- 11b/g/n, PCIe 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 WLAN PCIe 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 warranty**
- 1-year - depot repair service / service upgrades™ available

See footnotes for more detailed information

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WE model(s) announced June 5, 2012

US model(s) withdrawn effective December 31, 2013

(G-GLN1-6) February 2014
Positioning Processor
Sophisticated design with quality, durability and reliability for SMB customers; two spindles
Intel® Core™ i3-2328M processor (2 cores, 2.20GHz, 3MB cache), Intel HD Graphics 3000,
DDR3 memory controller (up to 1333MHz), HT technology
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), HT technology
Intel Core i5-3230M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000,
DDR3 memory controller (up to 1600MHz), HT technology
Intel Core i7-3612QM processor (4 cores, 2.10GHz, 6MB cache), Intel HD Graphics 4000,
DDR3 memory controller (up to 1600MHz), HT technology
Intel Core i7-3632QM processor (4 cores, 2.20GHz, 6MB cache), Intel HD Graphics 4000,
DDR3 memory controller (up to 1600MHz), 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 Disk Drive / Sata 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high,
removable, upgradable, Active Protection System™
mSATA™ SSD
Some: 16GB mSata Solid State Drive (SSD), via PCIe Mini Card slot

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

Graphics
Intel HD Graphics 3000 or 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
Matte black or Matte red (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad
Touchpad
UltraNav®, wide touchpad below keyboard, Tap Zones, multi-touch
ThinkLight™
None

Dimensions
Matte black or Matte red (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)
Matte black or Matte red (top), trimmed with a thin silver band (side): black bottom
Matte black or Matte red (top): Acrylonitrile-Butadiene-Styrene (ABS) plastic

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)

Pcie Mini Card
Two PCI Express Mini Card slots

WLAN
Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1, Wi-Fi + BT combo adapter
Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, 2x2,
Wi-Fi / BT combo adapter

WWAN
Some: Wireless WAN, Ericsson® HS321np Mobile Broadband Module, PCIe Half Mini Card,
GPRS/WCDMA/HSPA/HSPA+, GPS

SIM card
Some: Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required
Modern
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
Password on password, hard disk 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\textsuperscript{2} available

Preloaded operating system\textsuperscript{a}
- 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\textsuperscript{b}
  ThinkVantage Power Manager
  ThinkVantage Tools
  Lenovo SimpleTap
  Adobe® Reader\textsuperscript{b}
- Windows 8 models
  Lenovo Support
  Lenovo Companion
  Lenovo Mobile Access
  Lenovo Cloud Storage
- All models
  ThinkVantage System Update
  Norton™ Internet Security
  (30 days of virus definitions)
  Skype\textsuperscript{b}
  Microsoft Office preloaded; purchase a product key to activate

See footnotes for more detailed information
<table>
<thead>
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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 rpm</th>
<th>PCIe Mini Card</th>
<th>WWAN/mSATA</th>
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<td>Battery</td>
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</table>

**Positioning Processor**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology

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

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

**Optical SATA disk**

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

Some: Solid State Drive (SSD) / SATA 6.0Gb/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

**Widescreen display**

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

Some: 15.6” (396mm) HD+ (1600x900) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio

**Camera**

HD720p resolution, face track, low light sensitive, fixed focus, LED indicator

**Graphics**

Intel HD Graphics 3000 or 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 TrackPoint®**

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

TrackPoint pointing device, Internet Scroll Bar®

**Touchpad ThinkLight™**

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

**Dimensions**

Matte black or Matte red (top): 15.6W (WxDxH): 14.84” x 9.65” x 1.16-1.39”

HD720p resolution, face track, low light sensitive, fixed focus, LED indicator

**Weight**

15.6W* (WxDxH): 14.84” x 9.65” x 1.16-1.39”;

377 x 245mm x 29.5-35.3mm

**Battery - type**

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

**Battery - life**

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

**Chipset ExpressCard**

Mobile Intel HM77 Express Chipset

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, 2x2, Wi-Fi / BT combo adapter

**WWAN**

None

**SIM card**

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**

UPEK Fingerprint reader on palm rest, swipe sensor

**Limited warranty**

1-year - depot repair service / service upgrades available

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

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WE model(s) announced December 4, 2012 or January 1, 2013

US model(s) withdrawn effective December 31, 2013

(G-GLN1-13) February 2014

ENERGY STAR® Gold rating

RoHS-compliant

International Warranty Service®

24 hour x 7 day® toll-free support during the warranty period®
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Display</th>
<th>Camera</th>
<th>Disk</th>
<th>PClE Mini Card WLAN / BT</th>
<th>PClE Mini Card WWAN / mSATA</th>
<th>SIM card</th>
<th>Numeric Keypad</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery - life10</th>
<th>Battery - type37</th>
<th>Case color</th>
<th>Weight2</th>
<th>Dimensions3</th>
<th>Chipset</th>
<th>ExpressCard</th>
<th>Multicard Reader</th>
<th>Ports</th>
<th>PCIE Mini Card WWAN</th>
<th>PCIE Mini Card slots</th>
<th>SIM card</th>
<th>Modem</th>
<th>Bluetooth™</th>
<th>Audio support</th>
<th>Security</th>
<th>Security chip</th>
<th>Fingerprint reader</th>
<th>Limited warranty12</th>
<th>Preload</th>
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<tbody>
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<td>i7-3612QM</td>
<td>4GBx2</td>
<td>15.6” HD+</td>
<td>720p</td>
<td>750G</td>
<td>5400</td>
<td>TP 11b/g/n + BT</td>
<td>Ericsson</td>
<td>Lenovo</td>
<td>Numpad</td>
<td>Black</td>
<td>6-cell: 15.6W</td>
<td>90-watt AC adapter</td>
<td>Matte black</td>
<td>6.39 lb</td>
<td>377 x 245mm x 29.5-35.3mm</td>
<td>Mobile Intel H77 Widget Chipset</td>
<td>None</td>
<td>4-in-1 reader (MMC, SD, SDHC, SDXC)</td>
<td>Three USB 3.0, one USB 2.0 (powered), external monitor (VGA DB-15, HDMI), ethernet (RJ-45)</td>
<td>Two PCI Express Mini Card slots</td>
<td>Wireless LAN, Ericsson H5321gw Mobile Broadband Module, PCIE Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS</td>
<td>Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack</td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
<td>None</td>
<td>Lenovo Fingerprint Reader</td>
<td>One Key Recovery Pro</td>
<td>1-year - depot repair service / service upgrades22 available</td>
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<td>i5-3210M</td>
<td>4GBx1</td>
<td>15.6” HD+</td>
<td>720p</td>
<td>500G</td>
<td>7200</td>
<td>TP 11b/g/n + BT</td>
<td>Ericsson</td>
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<td>Numpad</td>
<td>Black</td>
<td>6-cell: 15.6W</td>
<td>90-watt AC adapter</td>
<td>Matte black</td>
<td>6.39 lb</td>
<td>377 x 245mm x 29.5-35.3mm</td>
<td>Mobile Intel H77 Widget Chipset</td>
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<td>4-in-1 reader (MMC, SD, SDHC, SDXC)</td>
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<td>Two PCI Express Mini Card slots</td>
<td>Wireless LAN, Ericsson H5321gw Mobile Broadband Module, PCIE Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS</td>
<td>Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2/ Stereo digital microphone, combo audio/mic jack</td>
<td>Power-on password, hard disk password, supervisor password, security keyhole</td>
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<td>UPEK Fingerprint Reader</td>
<td>One Key Recovery Pro</td>
<td>1-year - depot repair service / service upgrades22 available</td>
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<td>Mobile Intel H77 Widget Chipset</td>
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</table>

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

**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™
- Corel® WinDVD® (DWD:RW)
- Corel® DVD MovieFactory® Lenovo Edition (DWD:RW)
- Microsoft Office preloaded; purchase a product key to activate

See footnotes for more detailed information
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<thead>
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<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Display</th>
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**Positioning Processor**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel Core i5-3210M processor (2 cores, 2.5GHz, 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, can use two 204-pin SO-DIMM sockets.

**Optical Drive**

DVD burner, 12.7mm high, fixed, non-removable, tray-in.

**Display**

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

**Storage**

Some models have an mSATA Solid State Drive (SSD), via PCIe Mini Card slot.

**Graphics**

NVIDIA Optimus technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA GeForce GT 635M, PCI Express x16, 2GB memory, DirectX 11, NVIDIA PureVideo HD technology.

**Keyboard**

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

**Trackpad**

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

**Dimensions**

Matte black, Matte red or Matte blue (top): 15.6"W x 9.65"H x 1.16-1.39"D.

**Weight**

6-cell: from 5.47 lb (2.48kg).

**Battery**

Lithium Ion 6-cell 4-cell (48Whr): up to 5.5 hours.

**Chipset**

Mobile Intel HM77 Express Chipset.

**Multicard Reader**

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

**Network Interface**

Two PCI Express Mini Card slots.

**WWAN**

Some: Wireless WAN, Ericsson HS321 tw Mobile Broadband Module, PCIe Half Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS.

**SIM card**

None.

**Security**

Password-on-password, hard disk password, supervisor password, security keyhole.

**Fingerprint reader**

UPEK Fingerprint reader on palm rest, swipe sensor.

**Limited warranty**

1-year - depot repair service / service upgrades available.
## ThinkPad Edge E530c 3366 (Intel) - T (Win 8) - withdrawn

Product Specifications Reference (PSREF)

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### Positioning

**Processor**
- Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- Intel® Pentium® B960 processor (2 cores, 2.20GHz, 2MB cache), Intel HD Graphics, DDR3 memory controller (up to 1333MHz)
- **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™i5-2520M** processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), HT technology
- **Intel Core™i5-2520M** processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology
- **Intel Core™i7-3620QM** processor (4 cores, 2.20GHz, 6MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), 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

- 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™

### SATA disk

- 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, face track, low light sensitive, fixed focus, LED indicator

### Graphics

- Intel HD Graphics, Intel HD Graphics 3000 or 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

- **Black textured (top)**: 6-row, spill-resistant, multimedia Fn keys, numeric keypad, Fingerprint Reader
- **TrackPoint™**: TrackPoint pointing device, Internet Scroll Bar™
- **Touchpad**: UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch

### Dimensions

- Black textured (top): 15.6" (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 to 2.45kgs
- 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

- WLAN: Two PCle Mini Express Card slots
- WWAN: None

### Modem

- None

### Bluetooth™

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

### Audio support

- High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watts x 2
- Digital monitor support via HDMI
- External analog monitor support via VGA DB-15 connector
- Intel HD Graphics or HD720p resolution, face track, low light sensitive, LED indicator

### Security

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

### Security chip

- None

### Finger-prints reader

- None

### 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 November 6, December 18, 2012 or January 15, March 19, April 16, June 25, 2013

US model(s) withdrawn effective December 31, 2013

(G-LN1c-1) February 2013
**ThinkPad Edge E530c 3366 (Intel) - T (Win 8) - II - withdrawn**

**Product Specifications Reference (PSREF)**

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**Positioning Processor**

- **Sophisticated design with quality, durability and reliability for SMB customers; two spindles: Intel® Celeron® 1000M processor (2 cores, 1.80GHz, 2MB cache), Intel HD Graphics, DDR3 memory controller (up to 1600MHz), Intel Celeron 1005M processor (2 cores, 1.90GHz, 2MB cache), Intel HD Graphics, DDR3 memory controller (up to 1600MHz), Intel Pentium® 2020P Processor (2 cores, 2.40 GHz, 2MB Cache), Intel HD Graphics, DDR3 memory controller (up to 1600MHz), Intel Core™ i3-2348M processor (2 cores, 2.30GHz, 3MB cache), Intel Core® 3366-9DG Intel HD Graphics 4000, DDR3 memory controller (up to 1333MHz), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology

**Memory**

- 16GB max\(^\text{12}\) / 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 high or 9.5mm tall, removable, upgradable, Active Protection System\(^\text{12}\)

**SSD 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, HD720p resolution, face track, low light sensitive, fixed focus, LED indicator

**Camera**

- **Intel HD Graphics, Intel HD Graphics 3000 or Intel HD Graphics 4000 in processor, extended tether monitor support via VGA DB-15 connector and digital monitor support via HDMI, supports dual independent display; Max external resolution: 2048x1536 (VGA) @75Hz; 1920x1200 (HDMI) @60Hz**

**Keyboard TrackPoint**

- Black textured (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad
- **ThinkVantage System\(^\text{12}\) TrackPoint pointing device, Internet Scroll Bar**
- UltraNav\(^\text{13}\) wide touchpad below keyboard, Tap Zones, multi-touch

**Dimensions\(^\text{3}\)**

- **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\(^\text{3}\)**

- 6-cell: from 5.4 lb (2.45kg)
- **16-row, spill-resistant, multimedia Fn keys, numeric keypad**
- **5.0-compliant**
- **Black textured (top): 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm**

**Case color**

- Black textured (top): black bottom

**Battery - type\(^\text{3}\)**

- Lithium Ion 6-cell
- **ThinkLight\(^\text{13}\) Battery - life\(^\text{13}\)**
- 6-cell (48Whr): up to 5.7 hr

**Chipset ExpressCard**

- Mobile Intel HM77 Express Chipset

**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)

**PCIe Mini Card**

- **WLAN\(^\text{4}\)**: Two PCI Express Mini Card slots
- Some: 11a/b/g/n, PCIe Half Mini Card, ThinkPad 11a/b/g/n, Wi-Fi + Bluetooth combo adapter, 2x2
- Some: 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 2230, Wi-Fi + Bluetooth combo adapter, 2x2

**Modem**

- None
- **Bluetooth\(^\text{4}\)**: Bluetooth 4.0 wireless, integrated in WLAN PCIe Half Mini Card
- **RTU111F Gigabit Network Connection**
- **High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 2 watt x 2**
- **Stereo digital microphone or Mono digital microphone, audio codec/mic jack**

**Security chip**

- Power-on password, hard disk drive, supervisor password, audio security key

**Fingerprint reader**

- None

**Limited warranty\(^\text{12}\)**

- 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 February 5, 2013, May 21 or September 17, 2013

US model(s) withdrawn effective December 31, 2013
## ThinkPad Edge E535 3260 (AMD) - T - withdrawn

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<td>Numpad Matte red</td>
<td>Finger 6</td>
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</table>

**Positioning Processor**
- Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- 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 A6-4400M (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)

**Memory**
- 16GB max1/ 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 3.0Gbs, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™
- None

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

**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: 1920x1080 (VGA) @60Hz; 1920x1200 (HDMI) @60Hz

**Keyboard**
- Matte black or Matte red (top):
- 6-row, spill-resistant, multimedia Fn keys, numeric keypad
- TrackPoint® pointing device, Internet Scroll Bar13

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

**Dimensions**
- Matte black or Matte red (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)

**Chipset**
- A470M FCH

**EPEAT®**
- RoHS-compliant
- 5.0-compliant

**ENERGY STAR®**
- 5.0-compliant
- 5.0-compliant

**Supports ThinkVantage® technologies**
- 5.0-compliant
- 5.0-compliant

See footnotes for more detailed information

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WE model(s) announced June 19, July 24 or October 16, 2012

US model(s) withdrawn effective December 31, 2013

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   - TrueSuite Fingerprint Software (includes password manager function)

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5. ThinkVantage Tools

6. Lenovo SimpleTap

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<td>07/13</td>
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</table>

**Positioning Processor**
- Sophisticated design with quality, durability and reliability for SMB customers; two spindles
- AMD Accelerated Processor A4-4300M (dual-core, 2.50GHz, 1MB L2 cache), integrated DDR3 memory controller (up to 1600MHz)
- AMD Accelerated Processor A4-4300M (dual-core, 2.70GHz, 1MB L2 cache), integrated DDR3 memory controller (up to 1600MHz)
- AMD Accelerated Processor A6-4400M (dual-core, 2.90GHz, 2MB 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)

**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 Drive / SATA 3.0/Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Active Protection System™

**SSD**
- None

**Wide-screen display**
- 15.6" (396mm) HD (1366x768) 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

**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;
- supports dual independent display;
- Max external resolution: 1920x1080 (VGA)@60Hz; 1920x1200 (HDMI)@60Hz

**Keyboard**
- Matte black or Matte red (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad
- Black textured (top): 6-row, spill-resistant, multimedia Fn keys, numeric keypad

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

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

**ThinkLight™**
- None

**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
- Black textured (top): black bottom

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

**Battery - type 1**
- Lithium Ion 6-cell

**Battery - life**
- 6-cell (48Whr): up to 6.0 hr

**Chipset**
- A670M FCH

**ExpressCard**
- None

**MultiCard Reader**
- 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 WWAN**
- One PCle Express Mini Card slot
- 11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1

**Modem**
- None

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

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

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

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

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

See footnotes for more detailed information © Lenovo

WE model(s) announced October 23, November 6, December 18, 2012 or July 16, 2013 (G-GLN11-3) February 2014

US model(s) withdrawn effective December 31, 2013
### ThinkPad Edge E535 3260 (AMD) - S (T) - withdrawn

**Product Specifications Reference (PSREF)**

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<th>Battery cells</th>
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</table>

- **Small and medium business (SMB) model(s), part of the WE TopSeller\textsuperscript{16} Program**

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**Positioning Processor**

Sophisticated design with quality, durability and reliability for SMB customers; two spindles 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).

**Memory**

16GB max\textsuperscript{7} / 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\textsuperscript{14}.

**mSATA\textsuperscript{5} SSD**

None

**Widescreen display**

15.6\textsuperscript{6} (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio.

**Camera**

HD720p resolution, face track, low light sensitive, fixed focus, LED indicator

**Graphics**

Dynamic switching between discrete and integrated graphics (user selectable), AMD Radeon HD Graphics\textsuperscript{12} in processor, and AMD Radeon HD 7670M Graphics, PCI Express x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI\textsuperscript{11} (supporting HDCP to output protected content); supports dual independent display, Max external resolution: 1920x1080 (VGA)@60Hz; 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

**TrackPoint**

TrackPoint pointing device, Internet Scroll Bar

**Touchpad**

UltraNav\textsuperscript{13}, wide touchpad below keyboard, Tap Zones, multi-touch

**ThinkLight**

None

**Dimensions\textsuperscript{3}**

Matte black or Matte red (top): 15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39"; 377 x 245mm x 29.5-35.3mm Black aluminum (top): 15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35"; 377 x 245mm x 28.5-34.3mm

**Weight\textsuperscript{3}**

6-cell: from 5.4 lb (2.48kg)

**Case color**

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

Some: Black aluminum (top); black bottom

**Case material**

Matte black or Matte red (top): Acrylonitrile-Butadiene-Styrene (ABS) plastic Black aluminum (top): Aluminum

**Battery - type\textsuperscript{15}**

Lithium Ion 6-cell

**Battery - life\textsuperscript{15}**

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

**Chipset**

AMD A70M FCH

**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)

**PCIe Mini Card**

One PCIe Mini Card slot 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1

**Modern Bluetooth**

None

**Ethernet**

Realtek\textsuperscript{11} 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

**Fingerprint reader**

AuthenTec fingerprint reader on palm rest, swipe sensor

**Limited warranty\textsuperscript{16}**

1-year - depot repair service / service upgrades\textsuperscript{16} available

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See footnotes for more detailed information

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WE model(s) announced June 19 or October 16, 2012

US model(s) withdrawn effective December 31, 2013

(G-GLN11-2) February 2014

**Preloaded operating system\textsuperscript{10}**

- Some: DOS-Lic.
- Some: Genuine Windows 7 Home Premium 64

**Ready to install applications\textsuperscript{14} (only some listed)**

- One Key Recovery Pro

**Preloaded applications\textsuperscript{14} (only some listed)**

- Access Connections\textsuperscript{14}
- TrueSuite Fingerprint Software (includes password manager function)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Tools
- Lenovo SimpleTap
- Norton\textsuperscript{TM} Internet Security 2012 (30 days of virus definitions)
- Adobe\textsuperscript{8} Reader\textsuperscript{9}
- Skype\textsuperscript{8}
- Corel\textsuperscript{8} WinDVD\textsuperscript{8} (DVD+RW)
- Corel Burn.Now\textsuperscript{8} Lenovo Edition (DVD+RW)
- Corel DVD MovieFactory\textsuperscript{8} Lenovo Edition (DVD+RW)

**90-watt AC adapter**

EPEAT\textsuperscript{TM} Gold rating (Windows 7 models)

ENERGY STAR\textsuperscript{5} 5.0-compliant (Windows 7 models)

RoHS-compliant

International Warranty Service\textsuperscript{17} 24 hour x 7 day\textsuperscript{14} toll-free support during the warranty period\textsuperscript{16}
ThinkPad Edge E535 3260 (AMD) - S (T) - Win 8 - withdrawn

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<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk S/ATA GB rpm</th>
<th>PCIe Mini Card WLAN / BT</th>
<th>PCIe Mini Card WWAN</th>
<th>Numic Keypad</th>
<th>Top color</th>
<th>Finger print reader</th>
<th>Battery cells</th>
<th>Preload</th>
<th>Ann date (mm/yy)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3260-DWG</td>
<td>A8-4500M</td>
<td>4GBx1</td>
<td>15.6&quot; HD</td>
<td>720p</td>
<td>750G 5400</td>
<td>TP 11b/g/n + BT</td>
<td>None</td>
<td>Numpad</td>
<td>Matte black</td>
<td>Finger</td>
<td>6</td>
<td>Win8 64</td>
<td>10/12</td>
</tr>
<tr>
<td>3260-FVG</td>
<td>A8-4500M</td>
<td>4GBx1</td>
<td>15.6&quot; HD</td>
<td>720p</td>
<td>500G 7200</td>
<td>TP 11b/g/n + BT</td>
<td>None</td>
<td>Numpad</td>
<td>Matte black</td>
<td>None</td>
<td>6</td>
<td>DOS-Lic</td>
<td>07/13</td>
</tr>
<tr>
<td>3260-FTG</td>
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<td>4GBx1</td>
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<td>07/13</td>
</tr>
</tbody>
</table>

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

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 thick, 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

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

Graphics
- Dynamic switching between discrete and integrated graphics (user selectable),
- **Intel® Graphics** in processor, and
- **AMD Radeon HD 7670M Graphics**, PCI Express® x16, 1GB 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: 1920x1080 (VGA)@60Hz; 1920x1200 (HDMI)@60Hz

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

TrackPoint®
- TrackPoint pointing device, Internet Scroll Bar®

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

ThinkLight™
- None

Dimensions
- **15.6W" (WxDxH): 14.84" x 9.65" x 1.16-1.39";**
- **377 x 245mm x 29.5-35.3mm**
- **15.6W" (WxDxH): 14.84" x 9.65" x 1.12-1.35";**
- **377 x 245mm x 28.5-34.3mm**

Weight
- 6-cell: from 5.4 lb (2.48kg)
- Case color
  - Some: Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom
  - Some: Black aluminum (top); black bottom
- Case material
  - Matte black or Matte red (top):
    - Acrylonitrile-Butadiene-Styrene (ABS) plastic
  - Black aluminum (top):
    - Aluminum

Battery - type
- Lithium Ion 6-cell

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

Chipset
- AMD A70M FCH

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
- One PCI Express Mini Card slot
- 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, Wi-Fi + Bluetooth combo adapter, 1x1

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
- Finger print reader
  - Some: AuthenTec 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 October 23, 2012 or July 16, 2013
US model(s) withdrawn effective December 31, 2013

Product Specifications Reference (PSREF)