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Summary of Changes

This section describes the technical changes made in this edition. This edition might also include minor corrections and editorial changes which are not identified.

January 28, 2015 - Version 467

Additions in this update

► New product(s)
  None

► New model(s)
  ThinkPad Helix new models announced January 2015

► Others
  None

Changes in this update

► None

Withdrawals in this update

► Withdrawn product(s)
  None
## ThinkPad 10 Platform Specifications

**Positioning**
- Touchscreen tablet with a full PC experience and superior versatility

**Processor**
- Intel® Atom Processor

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<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Clock Speed</th>
<th>Burst Frequency</th>
<th>Cache</th>
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**Memory**
- Some: 2GB / 1067MHz LPDDR3, mobile DDR / soldered to system board
- Some: 4GB / 1067MHz LPDDR3, mobile DDR / soldered to system board
- All: no sockets, dual-channel capable

**Graphics**
- Intel HD Graphics in processor, supports 1080p video out via micro-HDMI™ connector, HDCP-compliant

**Display**
- 10.1" (256.5mm) WUXGA (1920x1200) TFT color, anti-reflective display with Corning® Gorilla® Glass, LED backlight, 400 nits, 16:10 aspect ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture support

**Tablet pen**
- ThinkPad 10 Digitizer Pen, supports hover, tip, and pressure modes / a button for selection / no batteries required (no Pen holder in Form Factor design)

**Camera**
- Front camera: 2.0-megapixel, fixed focus
- Rear camera: 8.0-megapixel, auto focus, flash LED

**Video capture**
- 1080p video capture

**Control buttons**
- Windows button, Power button, volume control button, rotation lock switch, reset switch

**Keyboard**
- Optional: ThinkPad 10 Classic keyboard (Mechanical) or ThinkPad 10 Touch Case (Membrane)

**Dimensions**
- 10.09" x 6.96" x 0.35"; 256.5mm x 177.0mm x 8.95mm
- 10.09" x 6.96" x 0.67"; 256.5mm x 177.0mm x 16.95mm (with SCR)

**Weight**
- WiFi only: from 1.32 lb (0.598kg);
- WiFi + WWAN: from 1.34 lb (0.610kg);
- WiFi + WWAN + SCR: from 1.46 lb (0.660kg)

**Security**
- Security chip: None; All: Trusted Platform Module, TPM 2.0 FW (firmware)

**Preload**
- Some: Windows 8.1 Pro 32-bit or Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo Support
- Lenovo Companion
- ThinkVantage System Update
- High Tail Cloud Storage
- PC Device Stage
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Norton Studio
- Microsoft® Office preloaded:
  - purchase a product key to activate
  - Norton™ Internet Security
  - (30 days of virus definitions)

**Battery - life**
- up to 26 days (standby); up to 110 hr (MP3 playback);
- up to 10 hr (local video playback)

**AC adapter**
- 36-watt AC adapter (Unique New Connector)

**Platform**
- Intel Atom Z3795 SoC (System on Chip) platform

**Smart Card Read**
- Optional: Smart Card reader (SCR)

**MultiCard Reader**
- None

**Ports**
- One USB 2.0, one Micro-HDMI, headphone/microphone combo jack, one Living Hinge Docking connector, one Keyboard connector, one Micro SIM slot

## See footnotes for more detailed information

© Lenovo (Ella-Spec) May 2014
**ThinkPad 10 20C1 (TopSeller)**

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<th>Processor/Memory</th>
<th>Widescreen display</th>
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<th>Camera</th>
<th>Storage &amp; Pen</th>
<th>Keyboard</th>
<th>M.2 Card WLAN</th>
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<th>SIM card</th>
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For detailed platform specifications, please see [ThinkPad 10 Platform Specifications sheet](#).

### Processor
- **Intel® Atom Processor Z3795 (4 cores, 2MB cache), Burst Frequency 2.4 GHz**

### Memory
- **Some:** 2GB / 1067MHz LPDDR3, mobile DDR / soldered to systemboard
- **Some:** 4GB / 1067MHz LPDDR3, mobile DDR / soldered to systemboard
- **All:** no sockets, dual-channel capable

### Storage
- 64GB or 128GB / eMMC (embedded Multi Media Card) flash memory on board
- Storage extension: One microSD Card slot supports up to 64GB

### Widescreen display
- 10.1" (256.5mm) **WUXGA (1920x1200) TFT color**, anti-reflective display with Corning® Gorilla® Glass, LED backlight, 400 nits, 16:10 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), Multi-Touch screen supports ten-finger gesture

### Camera
- **Front camera:** 2.0-megapixel, fixed focus, multi-microphone, combo audio/microphone jack
- **Rear (MP) camera:** 2.0-megapixel, auto focus, flash LED

### Graphics
- **Intel HD Graphics** in processor, supports 1080p video out via micro-HDMI™ connector, HDCP-compliant

### Keyboard
- **Optional:** ThinkPad 10 Classic keyboard or Touch Case

### Dimensions
- 10.09" x 6.96" x 0.35"; 256.5mm x 177.0mm x 8.95mm
- 10.09" x 6.96" x 0.67"; 256.5mm x 177.0mm x 16.95mm (with SCR)

### Weight
- **WiFi only:** from 1.32 lb (0.598kg); WiFi + WWAN:** from 1.34 lb (0.610kg); WiFi + WWAN + SCR: from 1.46 lb (0.660kg)

### Case material
- Aluminum frame

### Battery - type
- Lithium Polymer, 33Whr

### Battery - life
- up to 26 days (standby); up to 110 hr (MP3 playback); up to 10 hr (local video playback)

### AC adapter
- 36-watt AC adapter
<table>
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<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Camera</th>
<th>Graphics</th>
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- For detailed platform specifications, please see ThinkPad 10 Platform Specifications sheet

Processor: Intel Atom Processor Z3795 (4 cores, 2MB cache), Burst Frequency 2.4 GHz

Memory: Some: 2GB / 1067MHz LPDDR3, mobile DDR / soldered to systemboard

Storage: 64GB or 128GB / eMMC (embedded Multi Media Card) flash memory on board

Widescreen display: 10.1" (256.5mm) WUXGA (1920x1200) TFT color, anti-reflective display with Corning Gorilla Glass, LED backlight, 400 nits, 16:10 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture

Camera:
Front camera: 2.0-megapixel, fixed focus
Rear camera: 8.0-megapixel, auto focus, flash LED

Graphics: Intel HD Graphics

Keyboard: Optional: ThinkPad 10 Classic keyboard or Touch Case

Dimensions: 10.09" x 6.96" x 0.35; 256.5mm x 177.0mm x 8.95mm

Weight: 1.32 lb (0.598kg); 1.34 lb (0.610kg); 1.46 lb (0.680kg)

Battery - type: Lithium Polymer, 33Whr

Battery - life: up to 26 days (standby); up to 110 hr (MP3 playback); up to 10 hr (local video playback)

AC adapter: 36-watt AC adapter

Chipset: Intel Atom Z3795 SoC (System on Chip) platform

Smart Card Reader: Optional: Smart Card reader

Audio support:
- Realtek ALC5672 codec / stereo speakers, 0.5 watt x 2
- 3 digital microphone, combo audio/microphone jack

WLAN: 11a/b/g/n wireless, ThinkPad 11a/b/g/n, 2x2, WiFi + Bluetooth combo chip

WWAN: Optional: Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS

SIM card: Optional: AT&T / Verizon / T-Mobile, contract required with service provider

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

NFC: Optional: Near Field Communication

Security chip: None

Security chip:
- Trusted Platform Module, TPM 2.0 FW (firmware)
- Trusted Platform Module, TCG 1.2-compliant

Fingerprint reader: Optional: Fingerprint reader on the A Cover

Preload:
- Win8 /8.1 Pro: Windows 8.1 Pro 32-bit or Windows 8.1 Pro 64-bit
- Win8 /8.1: Windows 8.1 32-bit or Windows 8.1 64-bit

Limited warranty: 1-Year - depot repair service / service upgrades available
ThinkPad Tablet 2 Accessories Photography

**Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 Bluetooth Keyboard with Stand** 0B47270

**Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 VGA Adapter** 0B47084

**Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 Bluetooth Keyboard with Stand** 0B47270

**Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 Fitted Sleeve** 0A33902

**Lenovo ThinkPad Tablet 2 with ThinkPad Tablet 2 Fitted Sleeve** 0A33902

**ThinkPad Tablet 2 Dock** 0B47109
**ThinkPad Tablet 2 (3679) - TopSeller**

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<th>Storage</th>
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<th>Camera Front/ Rear (MP) w/ Stand</th>
<th>Bluetooth Keyboard</th>
<th>WLAN</th>
<th>PCIe Mini Card</th>
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<td>BT</td>
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<td>3679-5HU</td>
<td>Atom Z2760</td>
<td>2GB</td>
<td>10.1&quot; HD</td>
<td>64GB</td>
<td>Pen</td>
<td>2.0/8.0</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Gobi 4000</td>
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<td>None</td>
<td>BT</td>
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</tbody>
</table>

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

**Positioning** Touchscreen tablet for on-the-go business

**Processor** Intel® Atom™ Processor Z2760 (2 cores, 1.80GHz, 1MB cache), LPDDR2 memory controller (800MHz), HT technology

**Memory** 2GB / 800MHz LPDDR2, mobile DDR / soldered to systemboard, no sockets

**Storage** 32GB or 64GB / eMMC (embedded Multi Media Card) flash memory on board

**Graphics** PowerVR™ SGX545 graphics in Intel Atom SoC, supports 1080p video out via mini-HDMI™ connector, HDCP-compliant

**Display** 10.1" (256.56mm) HD (1366x768) TFT color, anti-reflective finish with infinity AG DracutGrafl™ Glass, LED backlight, 400 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports five-finger gesture

**Tablet Pen** Some: ThinkPad Tablet 2 Digitizer Pen (0A33899), supports hover, tip, and pressure modes / a button for selection / no batteries required

**Camera** Front camera: 2.0-megapixel, fixed focus

**Video capture** 720p video capture

**Audio support** Realtek® ALC5642 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, combo audio/microphone jack

**Media capable** Audio formats: MP3, AAC, AAC+, eAAC+, WAV, PCM, WMA

**Video formats** MPEG-4, H.263, H.264, VC-1, WMV9, Xvid

**Control buttons** Windows button, Power button, volume control button, rotation lock switch, reset switch

**Keyboard** Some: ThinkPad Tablet 2 Bluetooth Keyboard with Stand (0B47270), 6-row, TrackPoint® pointing device w/ three mouse buttons, landscape stand included, connects system via bluetooth, sealed battery with 30-day battery life, chargeable via micro-USB (one USB to micro-USB cable included)

**Light sensor** Ambient Light Sensor, Capella CM3318

**G-sensor/ eCompass** 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC

**Gyroscope** 3-axis gyroscope, STMicroelectronics L3G4200D

**Platform** Intel Atom Z2760 SoC (System on Chip) platform

**Ports** One USB 2.0, one micro-USB 2.0 (only for power supply / charging), one mini-HDMI, headphone/microphone combo jack, one ThinkPad Tablet 2 Dock connector

**WLAN** 11a/b/g/n wireless, ThinkPad 11a/b/g/n, 1x1, WiFi + Bluetooth combo chip

**WWAN** Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), WCDMA/HSPA/HSPA+

**Carrier** Some: AT&T LTE (4G), contract required with service provider

**GNSS** Global Navigation Satellite System

**Bluetooth™** Bluetooth 4.0 wireless, integrated in WiFi + Bluetooth combo chip

**NFC** Some: Near Field Communication, easy for two devices to communicate with each other

**Dimensions** 10.34" x 6.48" x 0.39"; 262.6mm x 164.6mm x 9.8mm

**Weight** 2.0/8.0 lb (0.9kg); 1.35 lb (0.61kg)

**Case color** Black

**Case material** Magnesium frame, PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) cover

**Battery - type** Lithium Polymer, 30Whr

**Battery - life** up to 24 days (standby); up to 150 hr (MP3 playback); up to 10 hr (web browsing with flash); up to 10 hr (local video playback)

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

See footnotes for more detailed information © Lenovo

US model(s) announced October 23 or December 18, 2012, or January 15 or March 5, 2013 (CLT1-1) June 2013

Preloaded operating system
- Some: Windows® 8 32-bit
- Some: Windows 8 Pro 32-bit

Preloaded applications (only some listed)
- Lenovo® Settings
- Lenovo Support
- Lenovo Companion
- Lenovo QuickSnip
- AT&T All Access
- Lenovo Cloud Storage by SugarSync
- Norton Internet Security 2012 (30 days of virus definitions)
- ThinkVantage System Update
- AccuWeather
- Evernote®
- Nitro PDF
- Skype™
- Amazon Kindle
ThinkPad Tablet 2 (3679) - TopSeller - II

### Product Specifications Reference (PSREF)

#### Type-model  Processor  Memory  Widescreen display  Storage  Tablet Pen  Camera Front/ Rear (MP)  Bluetooth Keyboard w/ Stand  WLAN  Mini Card WWAN  Carrier  NFC  Bluetooth  Preload  Ann Date (mmyy)

<table>
<thead>
<tr>
<th>Model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Storage</th>
<th>Tablet Pen</th>
<th>Camera Front/ Rear (MP)</th>
<th>Bluetooth Keyboard w/ Stand</th>
<th>WLAN 802.11</th>
<th>Mini Card WWAN</th>
<th>Carrier</th>
<th>NFC</th>
<th>Bluetooth</th>
<th>Preload</th>
<th>Ann Date</th>
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<tbody>
<tr>
<td>3679-5U</td>
<td>Atom Z2760</td>
<td>2GB</td>
<td>10.1&quot; HD</td>
<td>64G</td>
<td>No</td>
<td>2.0/8.0</td>
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<td>11a/b/g/n43</td>
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<td>None</td>
<td>Win8 32</td>
<td>04/13</td>
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<td>04/13</td>
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<td>10.1&quot; HD</td>
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<td>11a/b/g/n43</td>
<td>None</td>
<td>AT&amp;T</td>
<td>NFC</td>
<td>BT</td>
<td>Win8 32</td>
<td>04/13</td>
</tr>
</tbody>
</table>

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

#### Positioning
- Touchscreen tablet for on-the-go business

#### Processor
- Intel® Atom™ Processor Z2760 (2 cores, 1.80GHz, 1MB cache), LPDDR2 memory controller (800MHz), HT technology

#### Memory
- 2GB / 800MHz LPDDR2, mobile DDR / soldered to systemboard, no sockets

#### Storage
- 32GB or 64GB / eMMC (embedded Multi Media Card) flash memory on board
- Storage extension: One microSD Card slot, supports up to 32GB

#### Graphics
- PowerVR™ SGX545 graphics in Intel Atom SoC, supports 1080p video out via mini-HDMI™ connector, HDCP-compliant

#### Display
- 10.1" (256.6mm) HD (1366x768) TFT color, anti-reflective display with infinity AGC Dragontrail™ Glass, LED backlight, 400 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports five-finger gesture handling

#### Tablet Pen
- Some: ThinkPad Tablet 2 Digitizer Pen (0A33899), supports hover, tip, and pressure modes / a button for selection / no batteries required
- *The models without Tablet Pen cannot support pen input function via optional ThinkPad Tablet 2 Digitizer Pen (0A33899)*

#### Camera
- Front camera: 2.0-megapixel, fixed focus
- Rear camera: 8.0-megapixel, auto focus, flash LED

#### Video capture
- 720p video capture

#### Audio support
- Realtek® ALC5642 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, combo audio/microphone jack

#### Media capable
- Audio formats: MP3, AAC, AAC+, eAAC+, WAV, PCM, WMA
- Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid

#### Control buttons
- Windows button, Power button, volume control button, rotation lock switch, reset switch

#### Keyboard with Stand
- 6-row, TrackPoint® pointing device w/ three mouse buttons, landscape stand included, connects system via bluetooth, sealed battery with 30-day battery life, chargeable via micro-USB (one USB to micro-USB cable included)

#### Light sensor
- Ambient Light Sensor, Capella CM3218

#### G-sensor/ eCompass
- 3D accelerometer and 3-axis magnetometer module, STMicroelectronics LSM303DLHC

#### Gyroscope
- 3-axis gyroscope, STMicroelectronics L3G4200D

#### Platform
- Intel Atom Z2760 SoC (System on Chip) platform
- One USB 2.0, one micro-USB 2.0 (only for power supply / charging), one mini-HDMI, headphone/headphone combo jack, one ThinkPad Tablet 2 Dock connector

#### WLAN
- 11a/b/g/n wireless, ThinkPad 11a/b/g/n, 1x1, WiFi + Bluetooth combo chip
- Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), WCDMA/HSPA/HSPA+
- Some: AT&T® LTE (4G), contract required with service provider

#### Carrier
- Global Navigation Satellite System
- Global Navigation Satellite System
- Bluetooth™ 4.0 wireless, integrated in WiFi + Bluetooth combo chip
- NFC
- Some: Near Field Communication, easy for two devices to communicate with each other

#### Dimensions
- 10.34" x 6.48" x 0.39"; 262.6mm x 164.6mm x 9.8mm
- Weight
- WiFi only: from 1.26 lb (0.57kg);
- WiFi + Digitizer Pen: from 1.30 lb (0.59kg);
- WiFi + Digitizer Pen + WWAN: from 1.35 lb (0.61kg)
- Case color
- Black
- Case material
- Magnesium frame, PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) cover

#### Battery - type
- Lithium Polymer, 30Whr
- up to 25 days (standby); up to 150 hr (MP3 playback);
- up to 10 hr (web browsing with flash); up to 10 hr (local video playback)

#### Limited Warranty
- 1-year - depot repair service / service upgrades available

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See footnotes for more detailed information

US model(s) announced April 30, 2013

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(CL1-3) June 2013
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen display</th>
<th>Storage</th>
<th>Tablet Pen</th>
<th>Camera Front/ Rear (MP) w/ Stand</th>
<th>Bluetooth Keyboard</th>
<th>WLAN</th>
<th>PCIe Mini Card</th>
<th>GMP</th>
<th>Global (G)</th>
<th>Preload</th>
<th>Ann Date (mmyy)</th>
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<td>None</td>
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<td>G</td>
<td>Win8 Pro 32</td>
<td>10/12</td>
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<td>64G</td>
<td>Pen 2/0.8</td>
<td>None</td>
<td>11a/b/g/n</td>
<td>None</td>
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<td>BT</td>
<td>Win8 Pro 32</td>
<td>Win8 Pro 32</td>
<td>12/12</td>
</tr>
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</table>

Positioning

- Touchscreen tablet for on-the-go business

Processor: Intel® Atom™ Processor 27760 (2 cores, 1.80GHz, 1MB cache), LPDDR2 memory controller (800MHz), HT technology

Memory: 2GB / 800MHz LPDDR2, mobile DDR / soldered to systemboard, no sockets

Storage: 32GB or 64GB / eMMC (embedded Multi Media Card) flash memory on board

Storage extension: One microSD Card slot, supports up to 32GB

Graphics: PowerVR™ SGX545 graphics in Intel Atom SoC, supports 1080p video output via mini-HDMI™ connector, HDCP-compliant

Display: 10.1” (256.5mm) HD (1366x768) TFT color, anti-reflective display with infinity AGC Dragontrail™ Glass, LED backlight, 400 nits, 16:9 aspect ratio, 500:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports five-finger gesture

Tablet Pen: ThinkPad Tablet 2 Digitizer Pen (0A33899), supports hover, tip, and pressure modes / a button for selection / no batteries required

*The models without Tablet Pen can not support pen input function via optional ThinkPad Tablet 2 Digitizer Pen (0A33899)

Camera: Front camera: 2.0-megapixel, fixed focus

Video capture: 720p video capture

Audio support: Realtek ALC5642 codec / stereo speakers, 0.5 watt x 2 / dual array digital microphone, combo audio/microphone jack

Media capable: Audio formats: MP3, AAC, AAC+, eAAC+, WAV, PCM, WMA

Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid

Control buttons: Windows button, Power button, volume control button, rotation lock switch, reset switch

Keyboard: Some: ThinkPad Tablet 2 Bluetooth Keyboard with Stand (0B47270), 6-row, TrackPoint® pointing device w/ three mouse buttons, landscape stand included, connects system via bluetooth, sealed battery with 30-day battery life, chargeable via micro-USB (one USB to micro-USB cable included)

Light sensor: Ambient Light Sensor, Capella CM3218

G-sensor/ eCompass: 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC

Gyroscopes: STMicroelectronics L3G4200D

Platform:

- Intel Atom SoC (System on Chip) platform

Ports:

- One USB 2.0, one micro-USB 2.0 (only for power supply / charging), one mini-HDMI, headphone/microphone combo jack, one ThinkPad Tablet 2 Dock connector

- WLAN: 11a/b/g/n wireless, ThinkPad 11a/b/g/n, AT&T LTE (4G), WCDMA/HSPA/HSPA+

- Carrier: Global Navigation Satellite System

- Bluetooth™: Bluetooth 4.0 wireless, integrated in WiFi + Bluetooth combo chip

- NFC: Near Field Communication, easy for two devices to communicate with each other

Dimensions (mm/mm): 248.2 x 170.4 x 9.8

Weight: 0.36 lb (0.55kg)

Battery - type: Lithium Polymer, 30Whr

Battery - life: up to 25 days (standby); up to 150 hr (MP3 playback); up to 10 hr (web browsing with flash); up to 10 hr (local video playback)

Limited Warranty: 3-year - depot repair service / service upgrades available

See footnotes for more detailed information

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US model(s) announced October 23 or December 18, 2012

US model(s) withdrawn effective February 2013

Product Specifications Reference (PSREF)
## ThinkPad Tablet 2 Accessories

<table>
<thead>
<tr>
<th>Category</th>
<th>Product Description</th>
<th>Model Number</th>
<th>Release Date</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ThinkPad Tablet Expansion</strong></td>
<td>ThinkPad Tablet 2 Dock</td>
<td>0B47109</td>
<td>10/23/12</td>
</tr>
<tr>
<td><strong>Keyboard</strong></td>
<td>ThinkPad Tablet 2 Bluetooth Keyboard with Stand</td>
<td>0B47270</td>
<td>10/23/12</td>
</tr>
<tr>
<td><strong>Multimedia</strong></td>
<td>ThinkPad In-Ear Headphones with microphone</td>
<td>57Y4488</td>
<td>01/07/10</td>
</tr>
<tr>
<td><strong>Tablet</strong></td>
<td>ThinkPad Tablet 2 Digitizer Pen</td>
<td>0A33899</td>
<td>10/23/12</td>
</tr>
<tr>
<td><strong>Security</strong></td>
<td>3M ThinkPad Tablet 2 Privacy Filter (landscape)</td>
<td>0C33167</td>
<td>10/23/12</td>
</tr>
<tr>
<td><strong>Power Adapters</strong></td>
<td>ThinkPad Tablet 2 AC Charger</td>
<td>0B47010</td>
<td>10/23/12</td>
</tr>
<tr>
<td><strong>Carrying Cases</strong></td>
<td>ThinkPad Tablet 2 Fitted Sleeve</td>
<td>0A33902</td>
<td>10/23/12</td>
</tr>
<tr>
<td><strong>Monitor Accessories</strong></td>
<td>ThinkPad Tablet 2 VGA Adapter</td>
<td>0B47084</td>
<td>10/23/12</td>
</tr>
</tbody>
</table>

The ThinkPad Tablet 2 models without Tablet Pen can not support pen input function via ThinkPad Tablet 2 Digitizer Pen (0A33899).

Attachment via the ThinkPad Tablet 2 Dock 0B47109

More info at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

ThinkPad Tablet 2 Fitted Sleeve perfectly fits the ThinkPad Tablet 2 and ThinkPad Tablet 2 Bluetooth Keyboard with Stand 0B47270

ThinkPad 11W Sling Case 57Y4287 ann 08/16/11

ThinkPad Tablet 2 Slim Case - Black 0A33907 ann 10/23/12

ThinkPad Tablet 2 Slim Case - Red 0A33905 ann 10/23/12

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

Lenovo luxury cases at [www.lenovoluxurycases.com](http://www.lenovoluxurycases.com)

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

Compatible on selected Lenovo and ThinkVision monitors.

More information on accessories:
- [www.lenovo.com/accessories](http://www.lenovo.com/accessories)
- Purchase Lenovo accessories
- [www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)
- Product specifications on Lenovo Support
- [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)
- Option Compatibility Matrix (OCM) and accessory brochures
- [www.lenovoquickpick.com](http://www.lenovoquickpick.com)
- An Options Compatibility Configurator for Lenovo systems
### ThinkPad Helix Platform Specifications

<table>
<thead>
<tr>
<th>Positioning</th>
<th>Convertible with many modes - Tent, Notebook, Stand, Desktop, and Tablet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>5th Generation Intel® Core™ M or Core M vPro™ Processor</td>
</tr>
<tr>
<td>Graphics</td>
<td>Intel HD Graphics 5300 in processor, external digital monitor support via micro HDMI, dual independent display; Max external resolution: 1920x1080 (micro HDMI) @ 60Hz</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel Core M &amp; Intel Core M vPro</td>
</tr>
<tr>
<td>Memory</td>
<td>8GB max / PC3-12800 1600MHz LPDDR3, soldered to systemboard, no sockets</td>
</tr>
<tr>
<td>Display</td>
<td>11.6&quot; (295mm) FHD (1920x1080) TFT color, VIBRANT VIEW (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 370 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing). MultiTouch screen supports ten-finger gesture, One Glass Solution</td>
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<tr>
<td>Digitizer Pen</td>
<td>Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required</td>
</tr>
<tr>
<td>Storage</td>
<td>M.2 2280 SSD, 128GB or 256GB, 256GB SSD supports OPAL None</td>
</tr>
<tr>
<td>Optical</td>
<td>None</td>
</tr>
<tr>
<td>Ethernet</td>
<td>None</td>
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<tr>
<td>WLAN</td>
<td>Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card</td>
</tr>
<tr>
<td>Bluetooth</td>
<td>Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter</td>
</tr>
<tr>
<td>WWAN</td>
<td>Optional: Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card</td>
</tr>
</tbody>
</table>
| Micro SIM card | One of the following, configurable by model:  
  - AT&T® or Verizon® LTE (4G), contract required with service provider  
  - User selectable, contract required with service provider |
| Smart Card Read | Optional: Smart Card reader |
| Monitor Cable | Optional: Micro-HDMI to VGA monitor cable |
| Light sensor | Ambient Light Sensor |
| G-sensor/eCompass | 3D accelerometer and 3D magnetometer  
  3D compass, 3D inclinometer |
| Gyroscope    | 3D gyrometer |
| Dimensions   | 11.6W" WLÁN/WWAN: 11.9" x 7.58" x 0.38" (301.1mm x 192.5mm x 9.6mm)  
  11.6W" SmartCard reader: 11.9" x 7.58" x 0.76" (301.1mm x 192.5mm x 19.4mm) |
| Tablet Weight | WiFi/Touch | WiFi/Digitizer | WWAN/Touch | WWAN/Digitizer | SmartCard |
|             | 795g | 822g | 795g | 822g | 855g |
|             | 1.75 lb | 1.81 lb | 1.75 lb | 1.81 lb | 1.88 lb |
| Keyboard weight | Ultrabook Pro Keyboard: 900g/1.98 lb  
  Ultrabook Keyboard: 560g/1.23 lb |

### Case Information
- Case color: Graphite black  
- Case material: PC/ABS (Acrylonitrile-Butadiene-Styrene), and Aluminum

### Multicast reader
- Tablet reader: Support micro SD (2G max), micro SDHC (32G max), micro SDXC (64G max)
- Ultrabook reader: One USB 3.0 (one Always On), micro HDMI, micro SD, Micro SIM, Dock connector

### Camera
- Front camera: 2.0-megapixel, 1080p resolution, fixed focus  
- Rear camera: 5.0-megapixel, 1080p resolution, auto focus

### Audio support
- HD Audio, Realtek® ALC286-VC codec, stereo speakers, 0.7W x 2 / three microphones, combo audio/mic jack

### Control buttons
- Windows button, Power button, volume button, rotation lock switch, reset switch

### Keyboard
- (optional)
  - Pro: Ultrabook Pro Keyboard, (Battery keyboard) 6-row, TrackPoint® pointing device, MultiTouch with 3-2 buttons click pad, security keyhole, one USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 26Wh), 36-watt AC adapter can charge both the Tablet battery and Keyboard battery, pen holder, backlight
  - Non-pro: Ultrabook Keyboard, (Mechanical keyboard) 6-row, touchpad w/ 2 integrated buttons, one USB 2.0, pen holder

### Security
- Power-on password, hard disk password, supervisor password, security keyhole
- Security chip: vPro
- Optional: Trust Platform Module, TCG 1.2-compliant
- Optional: Intel vPro Technology
- Optional: FingerPrint reader
- Optional: Near Field Communication
- Optional: Quickshot cover

### Tablet battery
- Integrated Li-Polymer 2-cell (35Wh)
- Li-Polymer 4-cell (26Wh)

### Battery life
- Battery configuration 2-cell | 2-cell + 4-cell
  - Battery life 8 hr | 12 hr

### AC adapter
- 36-watt AC adapter

### Preload
- Some: Windows 8.1 64-bit  
- Some: Windows 8.1 Pro 64-bit
  - Lenovo Support  
  - Lenovo Companion  
  - ThinkVantage System Update  
  - Lenovo Reach  
  - HighTal - Metro  
  - Amazon Kindle  
  - Nitro Pro  
  - Evernote  
  - Skype  
  - Rara Streaming  
  - Norton Studio  
  - Microsoft Office preloaded; purchase a product key to activate  
  - Norton Internet Security (30 days of virus definitions)

### Limited warranty
- One of the following, configurable by model:
  - 1-year - depot repair service / service upgrades available  
  - 3-year - depot repair service / service upgrades available

### Environment
- EPEAT™ Gold; ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

See footnotes for more detailed information © Lenovo (DK1-Spec) January 2015

### Limited Warranty
- Lenovo's limited warranty for this product is a 1-year - depot repair service / service upgrades available  
- Lenovo's limited warranty for this product is a 3-year - depot repair service / service upgrades available

### Footnotes
- See footnotes for more detailed information
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</table>

For detailed platform specifications, please see ThinkPad Helix Platform Specifications sheet.
### ThinkPad Helix 20CH

**Product Specifications Reference (PSREF)**

- **Model:** 20CH000AUS
  - Processor: 5Y10
  - Memory: 4GB
  - Display: 11.6" FHD
  - Graphics: HD 5300
  - Storage: 128G SSD
  - WLAN & Bluetooth: 7265 ac+BT
  - WWAN: None
  - Processor: Intel HD Graphics 5300
  - CPU Speed: 0.8 GHz to 2.0 GHz
  - OS: Win8.1 P64
  - Weight: 1.75 lb
  - Case Material: Graphite black
  - Dimensions: 11.6W" WLAN/WWAN: 11.9" x 7.58" x 0.38"
  - Price: $795

- **Model:** 20CH000CUS
  - Processor: 5Y70
  - Memory: 4GB
  - Display: 11.6" FHD
  - Graphics: HD 5300
  - Storage: 256G OPAL
  - WLAN & Bluetooth: 7265 ac+BT
  - WWAN: None
  - Processor: Intel HD graphics 5300
  - CPU Speed: 1.1 GHz to 2.6 GHz
  - OS: Win8.1 P64
  - Weight: 1.61 lb
  - Case Material: Graphite black
  - Dimensions: 11.6W" WLAN/WWAN: 11.9" x 7.58" x 0.38"
  - Price: $822

- **Model:** 20CH000DUS
  - Processor: 5Y70
  - Memory: 8GB
  - Display: 11.6" FHD
  - Graphics: HD 5300
  - Storage: 256G OPAL
  - WLAN & Bluetooth: 7265 ac+BT
  - WWAN: None
  - Processor: Intel HD graphics 5300
  - CPU Speed: 1.1 GHz to 2.6 GHz
  - OS: Win8.1 P64
  - Weight: 1.61 lb
  - Case Material: Graphite black
  - Dimensions: 11.6W" WLAN/WWAN: 11.9" x 7.58" x 0.38"
  - Price: $822

- **Model:** 20CH000BUS
  - Processor: 5Y70
  - Memory: 4GB
  - Display: 11.6" FHD
  - Graphics: HD 5300
  - Storage: 128G SSD
  - WLAN & Bluetooth: 7265 ac+BT
  - WWAN: None
  - Processor: Intel HD graphics 5300
  - CPU Speed: 1.1 GHz to 2.6 GHz
  - OS: Win8.1 P64
  - Weight: 1.61 lb
  - Case Material: Graphite black
  - Dimensions: 11.6W" WLAN/WWAN: 11.9" x 7.58" x 0.38"
  - Price: $822

### For detailed platform specifications, please see ThinkPad Helix Platform Specifications sheet

- **Processor:** 5th Generation Intel® Core™ M or Core M vPro™ Processor
- **Chipset:** Intel Core M & Intel Core M vPro
- **Memory:** 8GB max / PC3-12800 1600MHz LPDDR3, soldered to system board, no sockets
- **Display:** 11.6" (295mm) FHD (1920x1080) TFT color, vibrantView (glossy) display with infinity Corning Gorilla® Glass, LED backlight, 370 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), Gorilla® Glass, LED backlight, 370 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing).
- **Digitizer Pen:** Wacom digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required
- **Storage:** M.2 2280 SSD, 128GB or 256GB, 256GB SSD supports OPAL
- **Networking:**Optional:
  - Micro SIM card: None
  - Ethernet: None
  - WLAN: None
  - Bluetooth: Optional: Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card
  - WWAN: Optional: Sierra Wireless EM7345, 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card
- **Smart Card Read:** Optional: Smart Card reader
- **Light sensor:** Ambiant Light Sensor
- **G-sensor:** 3D accelerometer and 3D magnetometer
- **GPS:** Optional: HD GPS 5300
- **Audio:** ALC286-VC codec, stereo speakers, 0.7W x 2 / Rear camera: 5.0-megapixel, 1080p resolution, auto focus
- **Camera:** Front camera: 2.0-megapixel, 1080p resolution, fixed focus / Rear camera: 5.0-megapixel, 1080p resolution, auto focus
- **Cards:** One of the following, configurable by model:
  - M.2 Card
  - SD Card
  - SIM Card
- **Battery:** Integrated Li-Polymer 2-cell (35Wh) / Up to 8 hrs
- **Dimensions:** 11.6W" WLAN/WWAN: 11.9" x 7.58" x 0.38"
- **Weight:** 1.75 lb
- **Case Material:** Graphite black
- **Operating System:** Windows 8.1 Pro 64-bit

### See footnotes for more detailed information

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Lenovo ThinkPad Helix 1st Gen

Lenovo ThinkPad Helix (Stand mode)

Lenovo ThinkPad Helix (Tablet mode) with ThinkPad Helix Digitizer Pen 0A33910

Lenovo ThinkPad Helix (Notebook mode)

Lenovo ThinkPad Helix (Notebook mode)
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<th>Camera Enhanced Keyboard</th>
<th>Digitizer Pen</th>
<th>Rear (MP) Dock</th>
<th>WLAN 802.11</th>
<th>PCIe Mini Card WWAN</th>
<th>Carrier</th>
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<th>Blue-tooth</th>
<th>Intel AMT</th>
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**Positioning**
- Convertible design for four modes - Notebook, Stand, Tablet, and Tablet +
- A depot repair service 3-year limited warranty

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

**Preloaded applications**
- Traditional Desktop apps
  - Lenovo® Solution Center
  - ThinkVantage System Update
  - Password Manager
  - Lenovo Cloud Storage
  - PC Device Stage
  - Norton® Internet Security 2013 (30 days of virus definitions)
  - AccuWeather
  - Evernote® Sketch
  - Skype™
  - Amazon Kindle

**Display**
- 11.6" (295mm) FHD (1920x1080) TFT color,
  - VibrantView (glossy) display with Infinity Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution

**Digitizer Pen**
- Some: Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required, pen holder on Tablet
- * The models without Digitizer Pen can not support pen input function via optional ThinkPad Helix Digitizer Pen (0A339101)

**Camera**
- Front camera: 2.0-megapixel, 1080p resolution, fixed focus
- Rear camera: 5.0-megapixel, 1080p resolution, auto focus

**Video capture**
- 1080p video capture

**Audio support**
- HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array digital microphone, combo audio microphone jack

**Media capable**
- Audio formats: MP3, AAC, AAC+, eAAC+, WAV, WMA
- Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid

**Control buttons**
- Windows button, Power button, volume control button, rotation lock switch, reset switch
- Keyboard Dock, 6-row spill-resistant keyboard, TrackPoint® pointing device, MultiTouch glass touchpad w/ 5 integrated buttons, landscape stand, security keyhole, some: 14.1" x 8.9" x 0.8" (358.0 x 226.0 x 20.4 mm), 210.96 x 31.8 x 31.8 mm, 1.5 lbs (0.68 kg), 28Whr battery, 28Wh, lithium polymer, soldered to system board, no sockets

**Light sensor**
- Ambient Light Sensor, Capella CM3218

**G-sensor/ eCompass**
- 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC

**Gyroscope**
- 3D gyroscope, STMicroelectronics L3GD20

**Chipset**
- Mobile Intel QS77 Express Chipset
  - One USB 2.0, one Mini DisplayPort, SIM card slot, Keyboard Dock connector

**WLAN® WWAN**
- 11a/b/g/n²⁹, PCIe SFF (Small Form Factor) Mini Card, Intel Centrino® Advanced-N 6205S, 2x2
- Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G)
- PCIe TFF (Thin Form Factor) Mini Card, WCDMA/HSPA/HSPA+, GPS
- Some: AT&T® LTE (4G), contract required with service provider
- Bluetooth™
- Bluetooth 4.0 wireless

**Ethernet**
- None

**NFC**
- None

**Intel AMT**
- Some: Intel Active Management Technology (IAMA)

**Security chip**
- Trusted Platform Module, TCG 1.2-compliant

**Dimensions³**
- Tablet only: 11.66" x 8.90" x 0.80"; 296.1mm x 226mm x 20.4mm
- Tablet with Keyboard Dock: 11.66" x 8.90" x 0.80"; 296.1mm x 226mm x 20.4mm

**Weight²**
- Tablet only: 2.05 lb (0.93 kg)
- Tablet with Keyboard Dock: 2.06 lb (0.93 kg)

**Battery**
- Type: Tablet Battery: Integrated Lithium Polymer 3-cell battery, 42Whr
  - Keyboard Dock battery: Integrated Lithium Polymer 4-cell battery, 28Whr
- MobileMark 2012: Tablet only: up to 5.6 hr, Tablet with Keyboard Dock: up to 8.0 hr

**Limited Warranty**
- 3-years/ 1-yr battery - depot repair service / service upgrades available

See footnotes for more detailed information

US model(s) announced March 26 or April 2, 2013

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<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Widescreen</th>
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<th>WLAN</th>
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<td>Intel Core™ i5-3317U (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology</td>
<td>8GB max / PC3-10600 1333MHz DDR3L / soldered to system board, no sockets</td>
<td>11.6&quot; FHD 180G Pen 2.0/5.0 Dock</td>
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</table>

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

**A depot repair service 3-year limited warranty**

Positioning

| Convertible design for four modes - Notebook, Stand, Tablet, and Tablet + |

Processor

| Intel® Core™ i5-3317U processor (2 cores, 1.70GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology |

Memory

| 8GB max / PC3-10600 1333MHz DDR3L / soldered to system board, no sockets |

Storage

| mSATA Solid State Drive (SSD), via PCIe Mini Card slot |

Graphics

| Intel HD Graphics 4000 in processor |

Display

11.6" (295mm) FHD (1920x1080) TFT color display with Infinity Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), MultiTouch screen supports ten-finger gesture, One Glass Solution

Digitizer Pen

Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required, pen holder on Tablet

Camera

Front camera: 2.0-megapixel, 1080p resolution, fixed focus Rear camera: 5.0-megapixel, 1080p resolution, auto focus

Video capture

1080p video capture

Audio support

HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array digital microphone, combo audio/microphone jack

Media capable

Audio formats: MP3, AAC+, eAAC+, WAV, WMA

Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid

Control buttons

Windows button, Power button, volume control button, rotation lock switch, reset switch

Keyboard Dock

Windows button, Power button, volume control button, rotation lock switch, reset switch

Light sensor

Ambient Light Sensor, Capella CM3218

G-sensor/ eCompass

3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC

Gyroscope

3D gyroscope, STMicroelectronics L3G20

Chipset

Mobile Intel QS77 Express Chipset

Tablet ports

One USB 2.0, one Mini DisplayPort, SIM card slot, Keyboard Dock connector

Monitor Cable

None

WLAN

11a/b/g/n/ac, PCIe SFF (Small Form Factor) Mini Card, Intel Centrino® Advanced-N 6205S, 2x2 Wireless WAN, Ericsson® C5621gw Mobile Broadband Module, Intel 6205S Advanced-N 6225AGN Wireless WLAN, 3x3 802.11ac, 1x1 802.11n

Carrier

Microwave Bi-Directional Amplifier, GPRS/WCDMA/HSPA/HSPA+, GPS

Bluetooth™

User selectable, contract required with service provider

Ethernet

Bluetooth 4.0, 4.0 wireless

NFC

Intel AMT only

Security chip

Intel Active Management Technology (iAMT) / Intel vPro / vPro

Dimensions

11.66" x 7.37" x 0.46" (MultiTouch models) / 11.66" x 8.90" x 0.80" (nonglare models)

Weight

2.0/5.0 lbs (9.0816kg)

Battery - type

Tablet battery: Integrated Lithium Polymer 3-cell battery, 42Whr

Limited Warranty

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

See footnotes for more detailed information

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US model(s) announced June 4, 2013

(PR1-4) June 2013
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<tr>
<th>Type-model</th>
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<th>Digitizer Pen</th>
<th>Camera Enhanced</th>
<th>PCIe Mini Card</th>
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<td>NFC</td>
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<td>Win8 Pro</td>
<td>06/13</td>
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**A depot repair service 3-year limited warranty**

- **Positioning**
  - Convertible design for four modes - Notebook, Stand, Tablet, and Tablet +

- **Processor**
  - Intel® Core™ i5-3427U processor (2 cores, 1.80GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology
  - Intel Core i7-3467U processor (2 cores, 2.0GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology

- **Memory**
  - 8GB max / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets

- **Storage**
  - mSATA Solid State Drive (SSD), via PCIe Mini Card slot

- **Graphics**
  - Intel HD Graphics 4000 in processor, external digital monitor support via Mini DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display

- **Display**
  - 11.6" (295mm) FHD (1920x1080) TFT color, VibrantView (glossy) display with infinity Corning® Gorilla® Glass, LED backlight, 350 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing)

- **Digitizer Pen**
  - Wacom® digitizer pen, supports hover, tilt, and pressure modes / a button for selection / no batteries required, pen holder on Tablet

- **Camera**
  - Front camera: 2.0-megapixel, 1080p resolution, fixed focus
  - Rear camera: 5.0-megapixel, 1080p resolution, auto focus

- **Video capture**
  - 1080p video capture

- **Audio support**
  - HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array digital microphone, combo audio/microphone jack

- **Media capable**
  - Audio formats: MP3, AAC, AAC+, eAAC+, WAV, WMA

- **Control buttons**
  - Windows button, Power button, volume control button, rotation lock switch, reset switch

- **Keyboard Dock**
  - Keyboard Dock, 6-row spill-resistant keyboard, TrackPoint® pointing device, MultiTouch glass touchpad w/ 5 integrated buttons, landscape stand, security keyhole, two USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 28Wh), the 45-watt AC adapter can charge both the Tablet battery and Keyboard Dock battery

- **Light sensor**
  - Ambient Light Sensor, Capella CM3218

- **G-sensor/ eCompass**
  - 3D accelerometer and 3D magnetometer module, STMicroelectronics LSM303DLHC

- **Gyroscope**
  - 3D gyroscope, STMicroelectronics L3GD20

- **Chipset**
  - Mobile Intel GS77 Express Chipset

- **Tablet ports**
  - One USB 2.0, one Mini DisplayPort, SIM card slot, Keyboard Dock connector None

- **WLAN/WWAN**
  - 11a/b/g/n/ac, PCIe SFF (Small Form Factor) Mini Card, Intel Centrino® Advanced-N 6205S, 2x2

- **Carrier**
  - AT&T LTE (4G), contract required with service provider

- **Bluetooth**
  - Bluetooth 4.0 wireless

- **Ethernet**
  - None

- **NFC**
  - None

- **Intel AMT**
  - None

- **Security chip**
  - Trusted Platform Module, TCG 1.2-compliant

- **Dimensions**
  - Tablet only: 11.66" x 8.90" x 0.80"; 296.1mm x 226mm x 20.4mm

- **Weight**
  - Tablet only: from 1.73 lb (0.785kg)

- **Case color**
  - Black

- **Case material**
  - Magnesium + PC/ABS (PolyCarbonate/Acrylonitrile-Butadiene-Styrene)

- **Battery**
  - Battery type: Integrated Lithium Polymer 3-cell battery, 42Whr
  - Keyboard Dock battery: Integrated Lithium Polymer 4-cell battery, 28Whr
  - MobileMark2® 2012: up to 5.6 hours; With Tablet with Keyboard Dock: up to 8.0 hours

- **Limited Warranty**
  - 3-years/1-year - depot repair service / service upgrades available

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

**Preloaded applications**
- Traditional Desktop apps
  - Lenovo® Solution Center
  - ThinkVantage System Update
  - Password Manager
  - Lenovo Cloud Storage by SugarSync
  - PC Device Stage
  - Nitro PDF Reader
  - Microsoft® Office preloaded; purchase a product key to activate
  - Intel Small Business Advantage

**Windows Store apps**
- Lenovo Settings
- Lenovo Experience
- Lenovo Support
- Lenovo Companion
- AT&T® All Access
- Norton™ Internet Security 2013 (30 days of virus definitions)
- AccuWeather
- Evernote® Sketch (MultiTouch models)
- Skype™
- Amazon Kindle

See footnotes for more detailed information
US model(s) announced March 26 or June 4, 2013

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<th>PCIe Mini Card</th>
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* Some models are part of the Global Models Plus program with limited onsite service 3-year limited warranty

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**Positioning**

Convertible design for four modes - Notebook, Stand, Tablet, and Tablet +

**Processor**

- Intel Core i5-3427U 3.2GHz, Intel HD Graphics 4000, DDR3 memory controller (1600MHz), Intel Turbo Boost 2.0 (3.2GHz), HT technology
- Intel Core i7-3667U 2.9GHz, Intel HD Graphics 4000, DDR3 memory controller (1600MHz), Intel Turbo Boost 2.0 (3.2GHz), HT technology

**Memory**

- 8GB max / PC3-10600 1333MHz DDR3L / soldered to systemboard, no sockets

**Storage**

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

**Graphics**

- Intel HD Graphics 4000 in processor, external digital monitor support via DisplayPort (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable 0A36536); supports dual independent display;
- Max external resolution: 2560x1600 (Mini-DisplayPort) @ 60Hz

**Display**

- 11.6" (295mm) FHD (1920x1080) TFT color, VibrantView (glossy) display with infinity Corning Gorilla Glass, LED backlight,
- 350 cd/m², 16:9 aspect ratio, 800:1 contrast ratio, IPS, WideView (170° viewing), Multi-touch screen supports ten-finger gesture, One Glass Solution
- Digitizer Pen
- Wacom® digitizer pen, supports hover, tip, and pressure modes / a button for selection / no batteries required, pen holder on Tablet
- *The models without Digitizer Pen can not support pen input function via optional ThinkPad Helix Digitizer Pen (0A33910)

**Camera**

- Front camera: 2.0-megapixel, 1080p resolution, fixed focus
- Rear camera: 5-megapixel, 1080p resolution, auto focus

**Video capture**

- 1080p video capture

**Audio support**

- HD Audio, Realtek ALC3202 codec, Dolby Home Theater v4 / stereo speakers, 1 watt x 2 / dual array digital microphone, combo audio/microphone jack

**Media capable**

- Audio formats: MP3, AAC, AAC+, eAAC+, WAV, WMA
- Video formats: MPEG-4, H.263, H.264, VC-1, WMV9, Xvid

**Control buttons**

- Windows button, Power button, volume control button, rotation lock switch, reset switch
- Keyboard Dock, 6-row spill-resistant keyboard, TrackPoint® pointing device,
- Multi-touch glass touchpad w/ 5 integrated buttons, landscape stand, security keyhole, two USB 3.0, one Mini DisplayPort, integrated 4-cell battery (Li-Polymer, 28Whr),
- the 45-watt AC adapter can charge both the tablet battery and Keyboard Dock battery

**Light sensor**

- Ambient Light Sensor, Capella CM3218

**G-sensor/ eCompass**

- 3D accelerometer and 3D magnetometer module, MEMS/MEMS technology, for motion tracking

**Gyroscope**

- 3D gyroscope, STMicroelectronics L3GD20

**Chipset**

- Mobile Intel QS77 Express Chipset
- One USB 2.0, one Mini DisplayPort, SIM card slot, Keyboard Dock connector

**WLAN**

- 11a/b/g/n/ac, PCIe SFF (Small Form Factor) Mini Card, Intel Centrino Advanced-N 6205S, 2x2
- Some: Wireless WAN, Qualcomm® Gobi™ 4000 chipset, LTE (4G), PCIe TFF (Thin Form Factor) Mini Card, WCDMA/HSPA/HSPA+, GPS
- Some: Wireless WAN, Ericsson® 3G62tg1w Mobile Broadband Module, PCIe TFF (Thin Form Factor) Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS

**Carrier**

- Some: AT&T® LTE (4G), contract required with service provider
- Some: User selectable, contract required with service provider

**Bluetooth**

- Bluetooth 4.0 wireless

**Ethernet**

- None

**NFC**

- None

**Intel AMT**

- Intel Active Management Technology (iAMT)

**Security chip**

- Trusted Platform Module, TCG 1.2-compliant

**Dimensions**

- 11.66" x 7.37" x 0.46"; 296.1mm x 187.3mm x 11.6mm
- 296.1mm x 226mm x 20.4mm

**Weight**

- 1.94 lbs (0.875kg)
- 1.94 lbs (0.875kg)

**Case color**

- Black

**Battery - type**

- Battery: Integrated Lithium Polymer 3-cell battery, 42Whr
- Keyboard Dock battery: Integrated Lithium Polymer 4-cell battery, 28Whr

**Battery - life**

- MobileMark2012: Tablet only: up to 5.6 hr, Tablet with Keyboard Dock: up to 8.0 hr

**Limited Warranty**

- 3-years/1-year battery, limited onsite service
- For Lenovo service upgrades, please go to S-TA sheet

---

See footnotes for more detailed information

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US model(s) announced March 26 or June 4, 2013

(PR1-3) June 2013
## ThinkPad Helix Accessories

**Storage and removable storage**
- **USB 2.0 Portable 500GB Hard Disk** 45K1690 ann 05/26/09
- **USB 3.0 Secure 500GB Hard Drive** 0A65619 ann 11/29/11
- **USB 3.0 Secure 750GB Hard Drive** 0A65616 ann 11/29/11
- **Lenovo™ Slim USB Portable DVD Burner** 0A33988 ann 06/14/11

**USB 3.0 Secure 500GB Hard Drive** 0A65619 ann 11/29/11

**USB 3.0 Secure 750GB Hard Drive** 0A65616 ann 11/29/11

**Lenovo™ Slim USB Portable DVD Burner** 0A33988 ann 06/14/11

**ThinkPad Expansion**
- **USB 2.0 Port Replicator with Digital Video** 0A33942 ann 03/22/11
- **ThinkPad USB 3.0 Dock** 0A33970 ann 05/15/12

**Lenovo™ Slim USB Portable DVD Burner** 0A33988 ann 06/14/11

**Keyboard**
- **TrackPoint Cap Collection** 73P2698 ann 12/16/03
- **Lenovo Optical Mouse (USB)** 06P4069 ann 05/21/03
- **Lenovo Laser Mouse (USB)** 41U3074 ann 01/23/07
- **ThinkPad USB Laser Mouse** 57Y4635 ann 12/15/09
- **ThinkPad Travel Mouse (USB, Optical)** 31P7405 ann 08/27/02
- **ThinkPad ScrollPoint® Mouse (USB, Optical)** 31P7410 ann 06/04/02
- **Lenovo Wireless Laser Mouse** 0A36188 ann 12/20/11

**Mouse**
- **Lenovo Wireless Laser Mouse** 51J0155 ann 03/24/09

**Multimedia**
- **ThinkPad In-Ear Headphones with microphone** 57Y4488 ann 01/07/10

**Tablet**
- **ThinkPad Helix Digitizer Pen** 0A33910 ann 01/29/13

**Modem**
- **USB 2.0 Lenovo Modem** 43R1814 ann 02/26/08

**Ethernet**
- **Lenovo USB 2.0 Ethernet Adapter** 0A36322 ann 08/14/12

**Security**
- **3M ThinkPad Helix Privacy Filter (4-way)** 4Z10A23288 ann 03/26/13
- **3M ThinkPad Helix Anti-glare Screen Protector** 4Z10A23289 ann 03/26/13
- **USB Gemplus GemPC Smart Card Reader** 41N3040 ann 02/21/06

**Power Adapters**
- **ThinkPad 45W AC Adapter** 0B47030 ann 01/29/13
- **90W Ultraslim AC/DC Combo Adapter** 41R4493 ann 09/22/09

**Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493**
- Lenovo Slim Power Tip 0B47048 ann 08/14/12

More information at [www.lenovo.com/support/poweradapters](http://www.lenovo.com/support/poweradapters)

**Carrying Cases**
- **Lenovo Messenger Max** 41U5253 ann 05/01/07
- **Lenovo Performance BackPack** 41U5254 ann 05/01/07
- **ThinkPad Business Topload Case** 43R2476 ann 05/13/08
- **ThinkPad Business Backpack** 43R2482 ann 05/13/08
- **ThinkPad Deluxe Expander Case** 43R2478 ann 05/13/08
- **ThinkPad Executive Leather Case** 43R2480 ann 05/13/08
- **Lenovo Sport Backpack - Red** 0B47298 ann 08/28/12
- **Lenovo Sport Slimcase - Blue** 0B47300 ann 08/28/12
- **Lenovo Sport Messenger - Grey** 0B47302 ann 08/28/12

More information at [www.lenovo.com/support/cases](http://www.lenovo.com/support/cases)

**Monitor Accessories**
- **Lenovo Mini-DisplayPort to VGA Monitor Cable** 0A36536 ann 05/17/11
- **Mini-DisplayPort to Single-link DVI Monitor Cable** 0B47090 ann 06/26/12
- **Lenovo USB Soundbar** 0A36190 ann 05/01/12
- **Lenovo Easy Reach Monitor Stand** 55Y9258 ann 09/22/09

More information at [www.lenovo.com/support/monitoraccessories](http://www.lenovo.com/support/monitoraccessories)

For more information on accessories: [www.lenovo.com/accessories](http://www.lenovo.com/accessories)

Purchase Lenovo accessories [www.lenovo.com/support/accessories](http://www.lenovo.com/support/accessories)


Option Compatibility Matrix (OCM) and accessory brochures [www.lenovoquickpick.com](http://www.lenovoquickpick.com)

More information on accessories: [www.lenovo.com/accessories](http://www.lenovo.com/accessories)

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More information on accessories: [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

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An Options Compatibility Configurator for Lenovo systems [www.lenovoquickpick.com](http://www.lenovoquickpick.com)

© Lenovo (O-Helix) March 2013
ThinkPad Yoga 11e
## ThinkPad Yoga 11e 20D9 (TopSeller)

### Product Specifications Reference (PSREF)

| Type-model         | Processor          | Memory | Graphics                   | Widescreen display | Multi-touch | Camera | Top color | Storage            | M.2 Card WLAN | M.2 Card WWAN/ SSD | SIM card | Finger print reader | battery cells | Power Adapter (watt) | Preload   | Base Warranty (year) | Global | Ann Date (m/y) |
|--------------------|--------------------|--------|----------------------------|--------------------|-------------|--------|-----------|-------------------|----------------|---------------------|-----------|---------------------|---------------|---------------------|-----------|------------------|---------|
| 20D9000RUS         | N2930              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 500G   | 7200      | 7260 a/b/g/n      | None           | None                | None                  | 45W                 | Win8.1 64       | 1-Depot   | No                | 06/14         |
| 20D9000XUS         | N2930              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 320G   | 7200      | 7260 a/b/g/n      | None           | None                | None                  | 45W                 | Win8.1 64       | 1-Depot   | No                | 06/14         |
| 20D9000US          | N2930              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 128G   | SSD       | 7260 a/b/g/n      | None           | None                | None                  | 45W                 | Win8.1 64       | 1-Depot   | No                | 06/14         |
| 20D9000WUS         | N2930              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 320G   | 7200      | 7260 a/b/g/n      | None           | None                | None                  | 45W                 | Win8.1 P64     | 1-Depot   | No                | 06/14         |
| 20D9000VUS         | N2930              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 128G   | SSD       | 7260 a/b/g/n      | None           | None                | None                  | 45W                 | Win8.1 64       | 1-Depot   | No                | 06/14         |
| 20D9000QUS         | N2930              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 320G   | 7200      | 7260 a/b/g/n      | None           | None                | None                  | 45W                 | Win8.1 P64     | 1-Depot   | No                | 06/14         |
| 20D9001AUS         | N2930              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 128G   | SSD       | 7260 ac           | None           | None                | None                  | 45W                 | Win8.1 P64     | 1-Depot   | No                | 12/14         |
| 20D90019US         | N2940              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 500G   | 7200      | 7260 ac           | None           | None                | None                  | 45W                 | Win8.1 P64     | 1-Depot   | No                | 12/14         |
| 20D90018US         | N2940              | 4GB    | Intel HD 11.6” HD Multi    | 720p               | Black       | 320G   | 7200      | 7260 ac           | None           | None                | None                  | 45W                 | Win8.1 P64     | 1-Depot   | No                | 12/14         |

### Processor

- **Intel Celeron** processor N2930 or N2940

### Memory

- 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
- System automatically clocks down for processors w/ lower memory controller

### Storage

- Some: SSD / SATA 3.0Gb/s, 2.5” wide, 7mm high
- Some: HDD / SATA 3.0Gb/s, 2.5” wide, 7mm high, Active Protection System™

### Widescreen display

- 11.6” (295mm) HD (1366x768) TFT color, LED backlight, 270 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

### Graphics

- Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display:
  - Max resolution: 1920x1080 (HDMI)@60Hz

### Data display

- 11.6W” (WxDxH): 11.81” x 8.50” x 0.90”; 300mm x 216mm x 22.9mm
- Weight: from 3.5 lb (1.59kg)

### Case

- **Display cover:** Graphite Black or Silver
- **Bottom:** Graphite Black

### Case material

- **Display cover:** PolyCarbonate/Glass-Fiber Reinforced Plastic
- **Bottom:** PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

### Battery

- Integrated Lithium Ion 4-cell (35Wh)

### Limited warranty

- 1-year - depot repair service / service upgrades available
- For Lenovo service upgrade options, please go to P_C-AQP sheet

### Preload

- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo Support - Metro
- Lenovo QuickCast - Metro
- Lenovo Companion - Metro
- ThinkVantage System Update
- Lenovo Reach
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Skype
- Raina Streaming
- Norton Studio
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

### Environment

- EPEAT® Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant
<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Graphics</th>
<th>Widescreen display</th>
<th>Multi-touch Camera</th>
<th>Top color</th>
<th>Storage</th>
<th>M.2 Card</th>
<th>M.2 Card WWAN/ SSD</th>
<th>SIM card</th>
<th>Finger print reader</th>
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<td>7260 a/b/g/n</td>
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### Processor

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<tr>
<th>Processor Number</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Clock Speed</th>
<th>Burst Frequency</th>
<th>Cache</th>
<th>Memory speed</th>
<th>Processor Graphics</th>
<th>Intel vPro Technology</th>
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<td>2MB</td>
<td>DDR3L-1333</td>
<td>Intel HD graphics</td>
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<td>4</td>
<td>1.83 GHz</td>
<td>2.25 GHz</td>
<td>2MB</td>
<td>DDR3L-1333</td>
<td>Intel HD graphics</td>
<td>No</td>
</tr>
</tbody>
</table>

### Memory

- 8GB max / PC3-12800 1600MHz DDR3L, non-parity, one 204-pin SO-DIMM socket
- *System automatically clocks down for processors w/ lower memory controller*

### Storage

- Some: SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high
- Some: SSD / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™

### Widescreen display

- 11.6" (295mm) HD (1366x768) TFT color, LED backlight, 270 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

### Display

- Yes, support 10 fingers

### Hinge

- Yoga hinge, 360 degree

### Camera (optional)

- HD720p resolution, low light sensitive

### Graphics

- Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display:
  - Max resolution: 1920x1080 (HDMI) @60Hz

### Dimensions

- 11.6W (Wx Dx H): 11.81" x 8.50" x 0.90"; 300mm x 216mm x 22.9mm

### Weight

- from 3.5 lb (1.59kg)

### Case color

- Display cover: Graphite Black or Silver
- Bottom: Graphite Black

### Case material

- Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic;
- Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

### Battery - type

- Integrated Lithium Ion 4-cell (35Wh)

### Battery - life

- Models | Windows 7 | Windows 8 |
<table>
<thead>
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<th></th>
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<tr>
<td>MobileMark® 2007</td>
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<tr>
<td>MobileMark® 2012</td>
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</table>

### AC adapter

- 45-watt AC adapter

### Audio support

- HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio® v2 / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

### Keyboard

- ThinkPad Windows keyboard, 6-row, multimedia Touchpad
- Buttonless touchpad below keyboard, multi-touch

### Touchpad

- ThinkLight™

---

**Chipset**

- Intel SoC (System on Chip) platform
- Smart Card Reader
- MultiCard Reader
- One USB 3.0, one powered USB 2.0, HDMI, ethernet (RJ-45)
- Power button, volume control button

**WLAN**

- TP 11b/g/n: ThinkPad 11b/g/n, 2x2, Wi-Fi + BT, M.2 Card
- 7260 ac: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 Card

**WWAN**

- Bluetooth™
- Ethernet
- NFC
- Power-on password, hard disk password, supervisor password, security keyhole

**Security**

- Security chip
- vPro & I AMT
- Fingerprint reader

---

**Limited warranty**

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

**Preload**

- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo Support - Metro
- Lenovo QuickCast - Metro
- Lenovo Companion - Metro
- ThinkVantage System Update
- Lenovo Reach
- AccuWeather
- Amazon Kindle
- Nitro Pro
- Evernote
- Skype
- Raia Streaming
- Norton Studio
- Microsoft Office preloaded;
  - purchase a product key to activate
  - Norton Internet Security
  - (30 days of virus definitions)

**Environment**

- EPEAT® Gold; ENERGY STAR® 6.0; GREENGUARD®; RoHS-compliant

---

See footnotes for more detailed information
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### Audio support
- HD Audio, Maxim MAX98090AETL+T codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

### Keyboard
- ThinkPad Chrome keyboard, 6-row, multimedia Fn keys
- Bluetooth touchpad below keyboard, multi-touch

### Chipset
- Intel vPro Technology

### Security
- Security chip: Security keyhole
- Security keyhole

### Environment
- EPEAT Gold; ENERGY STAR v 6.0; GREENGUARD v 3.0; RoHS-compliant

---

**Processor**

Intel® Celeron® processor N2930 or N2940

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<td>Intel HD graphics</td>
<td>No</td>
</tr>
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</table>

**Memory**

2GB or 4GB / DDR3L-1600MHz / soldered to systemboard, no sockets

* System automatically clocks down for processors w/ lower memory controller

**Storage**

16GB eMMC (embedded Multi Media Card) flash memory on board

**Widescreen display**

11.6" (295mm) HD (1366x768) TFT color, LED backlight, 270 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

**Multitouch**

Yes, support 10 fingers

**Hinge**

Yoga hinge, 360 degree

**Camera**

HD720p resolution, low light sensitive

**Graphics**

Intel HD Graphics in processor, supports external digital monitor via HDMI™, supports dual independent display:
- Max resolution: 1920x1080 (HDMI) @60Hz

**Dimensions**

11.6W" (WxDxH): 11.81" x 8.50" x 0.90", 300mm x 216mm x 22.9mm

**Weight**

from 3.31 lb (1.50kg)

**Case color**

Display cover: Graphite Black or Silver

**Case material**

Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic;

**Battery - type**

Integrated Lithium Ion 4-cell (35Wh)

**Battery - life**

more than 8 hours

**AC adapter**

45-watt AC adapter

**WLAN**

TP 11a/b/g/n: ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT, M.2 Card 7260 ac:
- Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 Card

**WWAN**

None

**Bluetooth™**

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

**Ethernet**

None

**NFC**

None

**Security**

Trusted Platform Module, TCG 1.2-compliant

**Security chip**

Fingerprint reader

**Limited warranty**

1-year - depot repair service / service upgrades available

For Lenovo service upgrade options, please go to P-C-AQP sheet
## ThinkPad Yoga 11e Chromebook 20DB

| Type-model | Processor | Memory | Graphics | Widescreen display | Multi-touch | Camera | Top color | Storage | M.2 Card WWAN/ SSD | SIM card | Finger print reader | battery cells | Power Adapter (watt) | Preload | Base Warranty (year) | Global Ann Date (m/y) |
|------------|-----------|--------|----------|--------------------|-------------|--------|-----------|---------|-------------------|----------|-------------------|---------------|---------------------|----------|-------------------|---------|-------------------|-------------------|
| 20DB000CUS  | N2930     | 4GB    | Intel HD | 11.6" HD          | Multi       | 720p   | Black     | 16GB eMMC | 7260 ac           | None     | None              | 4              | 45W                | Chrome        | 1-Depot          | No       | 06/14             |
| 20DB000GUS  | N2940     | 4GB    | Intel HD | 11.6" HD          | Multi       | 720p   | Black     | 16GB eMMC | 7260 ac           | None     | None              | 4              | 45W                | Chrome        | 1-Depot          | No       | 12/14             |

### Processor

**Intel® Celeron® processor N2930 or N2940**

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<th># of Threads</th>
<th>Clock Speed</th>
<th>Burst Frequency</th>
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### Memory

2GB or 4GB / DDR3L-1600MHz / soldered to systemboard, no sockets

* System automatically clocks down for processors w/ lower memory controller

### Storage

16GB eMMC (embedded Multi Media Card) flash memory on board

### Widescreen display

11.6" (295mm) HD (1366x768) TFT color, LED backlight, 270 nits, 16:9 aspect ratio, 800:1 contrast ratio, IPS

### MultiTouch

Yes, support 10 fingers

### Hinge

Yoga hinge, 360 degree

### Camera

HD720p resolution, low light sensitive

### Graphics

**Intel HD Graphics** in processor, supports external digital monitor via HDMI™, supports dual independent display:

Max resolution: 1920x1080 (HDMI) @ 60Hz

### Dimensions

11.6W" (WxDxH): 11.81" x 8.50" x 0.90", 300mm x 216mm x 22.9mm

### Weight

3.31 lb (1.50kg)

### Case color

Display cover: Graphite Black or Silver

Bottom: Graphite Black

**Case material**

Display cover: PolyCarbonate/Glass-Fiber Reinforced Plastic;

Bottom: PolyCarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic

### Battery - type

Integrated Lithium Ion 4-cell (35Wh)

### Battery - life

more than 8 hours

### AC adapter

45-watt AC adapter

### Audio support

HD Audio, Maxim MAX98090AEI+T codec / stereo speakers, 2W x 2 / monaural digital microphone, combo audio/mic jack

### Keyboard

ThinkPad Chrome keyboard, 6-row, multimedia Fn keys

### Keyboard Touchpad

ThinkLight™ Buttonless touchpad below keyboard, multi-touch

### Chipset

**Intel SoC (System on Chip) platform**

### Smart Card Reader

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

### Multicard Reader Ports

One USB 3.0, one USB 2.0, HDMI

### Control buttons

Power button, volume control button

### WLAN

**TP 11a/b/g/n:** ThinkPad 11a/b/g/n, 2x2, Wi-Fi + BT, M.2 Card

**7260 ac:** Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 Card

### WWAN

None

### Bluetooth

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

### Ethernet

None

### NFC

None

### Security

Security keyhole

Security chip

TPM 1.3 compliant

### Security chip

Trusted Platform Module, TCG 1.2-compliant

### Security keyhole

Fingerprint reader

### Limited warranty

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

For Lenovo service upgrade options, please go to P-C-AQP sheet

### Preload

Google Chrome OS

### Environment

EPEAT™ Gold; ENERGY STAR® 6.0; GREENGUARD™; RoHS-compliant

See footnotes for more detailed information

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(YMR1C-2) December 2014
ThinkPad Yoga
## ThinkPad Yoga (20CD) - TopSeller

### Product Specifications Reference (PSREF)

#### Type-model Processor Memory WideScreen display Screen type Pen Camera Disk SATA GB rpm PCie Mini Card WLAN M.2 Card SSD SIM card Top color cells Preload Ann date (m/d/y)

| 20CD002US | i7-4500U 8GB 12.5" HD anti-smudge None 720p 256G SSD Intel 7260 + BT None None Black 8 Win8.1 64 11/13 |
| 20CD00GUS | i3-4010U 8GB 12.5" HD anti-smudge None 720p 256G 5400 Intel 7260 ac + BT 16GB None Black 8 Win8.1 Pro64 11/13 |
| 20CD00HUS | i5-4200U 4GB 12.5" HD anti-smudge None 720p 500G 5400 Intel 7260 ac + BT 16GB None Black 8 Win8.1 Pro64 11/13 |
| 20CD00KUS | i7-4500U 8GB 12.5" HD anti-smudge None 720p 500G 5400 Intel 7260 ac + BT 16GB None Black 8 Win8.1 Pro64 11/13 |
| 20CD00MUS | i5-4200U 8GB 12.5" FH anti-giare Pen 720p 500G 5400 Intel 7260 ac + BT 16GB None Black 8 Win8.1 Pro64 11/13 |
| 20CD00NUS | i5-4200U 4GB 12.5" HD anti-smudge Pen 720p 256G SSD Intel 7260 ac + BT None None Black 8 Win8.1 Pro64 01/14 |
| 20CD02FUS | i5-4200U 4GB 12.5" HD anti-smudge None 720p 256G SSD Intel 7260 ac + BT None None Black 8 Win8.1 Pro64 11/13 |
| 20CD00YUS | i5-4200U 8GB 12.5" HD anti-smudge Pen 720p 500G 5400 Intel 7260 ac + BT 16GB None Black 8 Win8.1 Pro64 01/14 |
| 20CD00CYS | i7-4500U 8GB 12.5" HD anti-smudge None 720p 500G 7200 Intel 7260 ac + BT None None Black 8 7Win7Pro64 01/14 |
| 20CD00CHUS | i5-4200U 4GB 12.5" HD anti-smudge None 720p 500G 7200 Intel 7260 ac + BT 16GB None Black 8 Win8.1 Pro64 02/14 |
| 20CD00GUS | i3-4010U 8GB 12.5" HD anti-smudge None 720p 500G 7200 Intel 7260 ac + BT 16GB None Black 8 Win8.1 Pro64 02/14 |
| 20CD00DUS | i3-4030U 720p None 16GB Pen 256G 4GB 500G 8 None None Black 8 Win8.1 Pro 05/14 |
| 20CD00QUS | i5-4200U 8GB 12.5" HD anti-smudge None 720p 500G 7200 Intel 7260 ac + BT 16GB None Black 8 Win8.1 Pro64 05/14 |

### Positioning

| Processor | Convertible tablet; one spindle |
| Intel® Core™ i3-4010U processor (2 cores, 1.90GHz, 3MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), HT technology |
| Intel Core i3-4210U processor (2 cores, 1.70GHz, 3MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), HT technology |
| Intel® Core™ i7-4500U processor (2 cores, 1.80GHz, 4MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), HT technology |
| Intel® Core™ i5-4200U processor (2 cores, 1.60GHz, 3MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology |
| Intel Core i5-4210U processor (2 cores, 1.70GHz, 3MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.70GHz), HT technology |
| Intel® Core™ i7-4500U processor (2 cores, 1.80GHz, 4MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology |

### Memory

| 4GB or 8GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no SO-DIMM sockets |
| Optical SATA disk None |
| 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™ |
| Some: M.2 Solid State Drive (SSD), via M.2 Card slot |
| M.2 SSD Some: 12.5" (317.5mm) HD (1366x768) TFT color, smudgeless, 10-point touch screen |
| LED backlight, 300 nits, 16:9 aspect ratio, IPS |
| Some: 12.5" (317.5mm) FHD (1920x1080) TFT color, smudgeless, 10-point touch screen |
| LED backlight, 400 nits, 16:9 aspect ratio, IPS |
| Some: 12.5" (317.5mm) FHD (1920x1080) TFT color, anti-glare, 10-point touch screen with Pen, LED backlight, 400 nits, 16:9 aspect ratio, IPS |
| Camera HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus |

### Graphics

| Intel HD Graphics 4400 in processor, supports external digital monitor via Mini HDMI; supports dual independent display; Maximum external resolution: 1920x1200 (Mini HDMI) @60Hz |
| Keyboard 6-row, 83-key, spill-resistant, multimedia Fn keys, LED backlight |
| Touchpad TrackPoint pointing device UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch |
| Light sensor Ambient light sensor |
| ThinkLight™ None |
| Dimensions 2 8-cell: 12.44" x 8.70" x 0.74"; 316mm x 221mm x 18.8mm |
| 8-cell with Pen: 12.44" x 8.70" x 0.76"; 316mm x 221mm x 19.4mm |
| Weight 2 8-cell: from 3.46 lb (1.57kg) |
| 8-cell with Pen: from 3.59 lb (1.63kg) |
| Case material Display cover: Magnesium and Aluminum + Polyphenylene sulfide (PPS); Bottom: Magnesium and Aluminum + Polyphenylene sulfide (PPS); |
| Battery - type Integrated Li-Polymer 8-cell, HW Authentication |
| Battery - life 10 8-cell (47Whr): up to 7.0 hr |

### Multicard Reader 4-in-1 reader (SD, SDHC, SDXC, MMC) None |
| Ports Two USB 3.0(one powered), external monitor (mini-HDMI) |
| PCIe Mini Card One PCI Express Mini Card slot Some: 11b/g/n, PCIe Half Mini Card, Intel Wireless-N 7260, Wi-Fi + Bluetooth combo adapter, 2x2 |
| Some: 11ac, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + Bluetooth combo adapter, 2x2 |
| M.2 Card One M.2 Card slot for support of SSD |
| WWAN None |
| Bluetooth™ None |
| Ethernet None |
| Audio support High Definition (HD) Audio, Conexant CX20751 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack |
| Security Power-on password, hard disk password, supervisor password, security keyhole |
| Security chip Trusted Platform Module, TCG 1.2-compliant |
| Fingerprint reader None |

### Preloaded operating system 10

- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit

### Preloaded applications 14 (only some listed, for Windows 8.1 models)

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

### Limited warranty 12

1-year - depot repair service / service upgrades 22 available

See footnotes for more detailed information

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<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
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</table>

### Positioning
- Convertible tablet, one spindle

### Processor
- **Intel Core™ i5-4200U processor (2 cores, 1.60GHz, 3MB Cache)**, Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.80GHz), HT technology
- **Intel Core i5-4300U processor (2 cores, 1.90GHz Cache)**, Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology
- **Intel Core i7-4500U processor (2 cores, 1.80GHz, 4MB Cache)**, Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology
- **Intel Core i7-4600U processor (2 cores, 2.10GHz, 4MB Cache)**, Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology

### Optical SATA disk
- None
- 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™
- Some: M.2 Solid State Drive (SSD), via M.2 Card slot

### Memory
- 4GB or 8GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no SO-DIMM sockets

### Processor
- Intel HD Graphics 4400 in processor, supports external digital monitor via Mini HDMI; supports dual independent display; Maximum external resolution: 1920x1200 (Mini HDMI) @ 60Hz

### Keyboard
- 6-row, 83-key, spill-resistant, multimedia Fn keys, LED backlight

### TrackPoint
- TrackPoint pointing device

### Touchpad
- UltraNav®, wide touchpad below keyboard, integrated five buttons, multi-touch

### Light sensor
- Ambient light sensor

### ThinkLight
- None

### Dimensions
- 8-cell: 12.44” x 8.70” x 0.74”; 316mm x 221mm x 18.8mm
- 8-cell with Pen: 12.44” x 8.70” x 0.76”; 316mm x 221mm x 19.4mm
- Weight: 3.46 lb (1.57kg)

### Case material
- Display cover: Magnesium and Aluminum + Polyethylene sulfide (PPS);
- Bottom: Magnesium and Aluminum + Polyethylene sulfide (PPS)

### Battery
- type: Integrated Li-Polymer 8-cell, HW Authentication
- Battery - type: 8-cell (47Whr): up to 7.0 hr

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

### ExpressCard
- None

### PCIe Mini Card
- One PCI Express Mini Card slot

### NOTE
- Supports ThinkVantage™ technologies
- 45-watt AC Adapter
- ENERGY STAR® compliant
- ROHS-compliant
- International Warranty Service 24 hour x 7 day toll-free support during the warranty period
- For Lenovo service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
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<tr>
<th>Type-model</th>
<th>Processor/Memory</th>
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### Preloaded operating system
- Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Some: Windows 8.1 64-bit
- Some: Windows 8.1 Pro 64-bit

### Preloaded applications (only some listed, for Windows 8.1 models)
- Lenovo Support
- Lenovo Companion
- Lenovo Cloud Storage
- Password Manager
- 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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(STLA1-3) September 2014
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**Positioning Processor**
- **Convertible tablet; one spindle**

**Intel® Core™ i5-4300U processor (2 cores, 1.90GHz, 3MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology**

**Intel Core i7-4600U processor (2 cores, 2.10GHz, 4MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology**

**Memory**
- 4GB or 8GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no SO-DIMM sockets

**Optical**
- SATA disk: None
- M.2 SSD: Some: Solid State Drive (SSD), via M.2 Card slot

**SATA disk**
- 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™

**Widescreen display**
- Some: 12.5" (317.5mm) HD (1366x768) TFT color, smudgeless, 10-point touch screen
- LED backlight, 300 nits, 16:9 aspect ratio, IPS;
- Some: 12.5" (317.5mm) FHD (1920x1080) TFT color, smudgeless, 10-point touch screen
- LED backlight, 400 nits, 16:9 aspect ratio, IPS;
- Some: 12.5" (317.5mm) FHD (1920x1080) TFT color, anti-glare,
- 10-point touch screen with Pen, LED backlight, 400 nits, 16:9 aspect ratio, IPS
- HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

**Camera**
- Intel HD Graphics 4400 in processor,
- supports external digital monitor via Mini HDMI; supports dual independent display;
- Maximum external resolution: 1920x1200 (Mini HDMI) @60Hz

**Keyboard**
- 6-row, 83-key, spill-resistant, multimedia Fn keys, LED backlight

**Touchpad**
- UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch

**Light sensor**
- Ambient light sensor
- TrackPoint® pointing device
- SureType™ spill-resistant, multimedia Fn keys, LED backlight

**ThinkLight™**
- None

**Dimensions**
- 8-cell: 12.44" x 8.70" x 0.74", 316mm x 221mm x 18.8mm
- 8-cell with Pen: 12.44" x 8.70" x 0.76", 316mm x 221mm x 19.4mm

**Weight**
- 8-cell: from 3.46 lb (1.57kg)
- 8-cell with Pen: from 3.59 lb (1.63kg)

**Case material**
- Display cover: Magnesium and Aluminum + Polyphenylene sulfide (PPS);
- Bottom: Magnesium and Aluminum + Polyphenylene sulfide (PPS);
- Battery - type: Integrated Li-Polymer 8-cell, HW Authentication
- Battery - life: 8-cell (47Whr): up to 7.0 hr

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

**ExpressCard**
- None
- Two USB 3.0 (one powered), external monitor (mini-HDMI)

**PcLe Mini Card**
- One PCI Express Mini Card slot

**PcLe WLAN**
- 11ac, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + Bluetooth combo adapter, 2x2

**M.2 Card**
- One M.2 Card slot for support of SSD

**WWAN**
- None

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

**Ethernet**
- None

**Intel AMT**
- Intel Active Management Technology (iAMT)

**Audio support**
- High Definition (HD) Audio, Conexant CX20751 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack

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

**Security chip**
- Trusted Platform Module, TCG 1.2-compliant

**Fingerprint reader**
- None

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

---

See footnotes for more detailed information

US model(s) announced January 28, or March 11, 2014

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(StLA1-4) March 2014
#### Preloaded operating system

- Some: Windows 8.1 Pro 64-bit

#### Preloaded applications

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

### ThinkPad Yoga (20C0) - Onsite

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### Positioning

- Convertible tablet; one spindle

### Processor

- Intel® Core™ i5-4300U processor (2 cores, 1.90GHz, 3MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology
- Intel Core i7-4600U processor (2 cores, 2.10GHz, 4MB Cache), Intel HD Graphics 4400, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology

### Memory

- 4GB or 8GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no SO-DIMM sockets

### Optical SATA disk

- None
- 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™
- Some: M.2 Solid State Drive (SSD), via M.2 Card slot

### Widescreen display

- Some: 12.5" (317.5mm) HD (1366x768) TFT color, smudgeless, 10-point touch screen
- LED backlight, 300 nits, 16:9 aspect ratio, IPS
- Some: 12.5" (317.5mm) FHD (1920x1080) FHD color, smudgeless, 10-point touch screen
- LED backlight, 400 nits, 16:9 aspect ratio, IPS
- Some: 12.5" (317.5mm) FHD (1920x1080) TFT color, anti-glare, 10-point touch screen with Pen, LED backlight, 400 nits, 16:9 aspect ratio, IPS

### Camera

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

### Graphics

- Intel HD Graphics 4400 in processor, supports external digital monitor via Mini HDMI; supports dual independent display;
- Maximum external resolution: 1920x1200 (Mini HDMI) @60Hz

### Keyboard

- 6-row, 83-key, spill-resistant, multimedia Fn keys, LED backlight

### TrackPoint®

- TrackPoint pointing device

### Touchpad

- UltraNav™, wide touchpad below keyboard, integrated five buttons, multi-touch

### Light sensor

- Ambient light sensor
- ThinkLight™

### Dimensions

- 8-cell: 12.44" x 8.70" x 0.74"; 316mm x 221mm x 18.8mm
- 8-cell with Pen: 12.44" x 8.70" x 0.76"; 316mm x 221mm x 19.4mm

### Weight

- 8-cell: from 3.46 lb (1.57kg)
- 8-cell with Pen: from 3.59 lb (1.63kg)

### Case material

- Display cover: Magnesium and Aluminum + Polyphenylene sulfide (PPS)
- Bottom: Magnesium and Aluminum + Polyphenylene sulfide (PPS)

### Battery - type

- Integrated Li-Polymer 8-cell, HW Authentication

### Battery - life

- 8-cell (47Whr): up to 7.0 hr

### Multicard Reader

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

### ExpressCard Ports

- Two USB 3.0 (one powered), external monitor (mini-HDMI)

### PCIe Mini Card

- Supports ThinkVantage® technologies

### PCle W LAN

- 11ac, PCIe Half Mini Card, Intel Dual Band Wireless-AC 7260, Wi-Fi + Bluetooth combo adapter, 2x2
- One M.2 Card slot for support of SSD
- None
- Intel AMT
- Intel Active Management Technology (I AMT)

### Audio support

- High Definition (HD) Audio, Conexant CX20751 codec / stereo speakers, 2 watt x 2, Dolby® Home Theater® v4 certified / volume up, down, mute buttons / dual array microphone, combo audio/mic jack

### Security

- Power-on password, hard disk password, supervisor password, security keyhole
- Trusted Platform Module, TCG 1.2-compliant

### Security chip

- Trusted Platform Module, TCG 1.2-compliant

### Fingerprint reader

- None

### Limited warranty

- 3-year/1-year battery, limited onsite service / service upgrades available

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See footnotes for more detailed information

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US model(s) announced January 28, 2014

(STLA1-5) February 2014
## ThinkPad Yoga 15 Platform Specifications

**Processor**

<table>
<thead>
<tr>
<th>Processor</th>
<th># of Cores</th>
<th># of Threads</th>
<th>Base Frequency</th>
<th>Max Turbo Frequency</th>
<th>Cache</th>
<th>Memory Speed</th>
<th>Graphics</th>
</tr>
</thead>
<tbody>
<tr>
<td>i3-5010U</td>
<td>2</td>
<td>4</td>
<td>2.1 GHz</td>
<td>-</td>
<td>3MB</td>
<td>DDR3L-1600</td>
<td>HD5500</td>
</tr>
<tr>
<td>i5-5200U</td>
<td>2</td>
<td>4</td>
<td>2.2 GHz</td>
<td>2.7 GHz</td>
<td>3MB</td>
<td>DDR3L-1600</td>
<td>HD5500</td>
</tr>
<tr>
<td>i7-5500U</td>
<td>2</td>
<td>4</td>
<td>2.4 GHz</td>
<td>3.0 GHz</td>
<td>4MB</td>
<td>DDR3L-1600</td>
<td>HD5500</td>
</tr>
</tbody>
</table>

**Graphics**

- Intel HD Graphics in processor only, or Nvidia GeForce 840M Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content), supports dual independent display.
- Max resolution: 1920x1080 (HDMI) @ 60Hz

**Chipset**

- Intel SoC (System on Chip) platform

**Memory**

- 16GB max / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

**Display**

- Some: 15.6" (396mm) FHD (1920x1080) color, glossy, LED backlight, 300 nits, 16:9 aspect ratio, IPS
- Some: 15.6" (396mm) FHD (1920x1080) color, anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, IPS

**Multi-touch**

- Supports 10-finger gesture

**Hinge**

- Yoga hinge, 360 degree

**Active pen**

- Some: Wacom® Active pen, batteries required

**Storage**

- Some: SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable
- Some: HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™
- Some: Hybrid drive with 8GB NAND flash memory (optional)
- M.2 SSD: Some: M.2 Solid State Drive (SSD), via M.2 Card slot

**Ethernet**

- None

**Bluetooth**

- None

**WLAN**

- One of the following, configurable by model:
  - Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
  - Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card

**WWAN (optional)**


**SIM card**

- None

**Smart Card Read**

- None

**ExpressCard**

- None

**Dimensions**

- FHD (WxH): 15.07" x 10.07" x 0.82" (383mm x 256mm x 21mm)

**Weight**

- From 5.07 lb (2.30kg)

**Case color**

- Graphite black or silver

**Case Material**

- Aluminum

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**Multicard Reader**

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

**Ports**

- Two USB 3.0 (one Always On), one USB 2.0, HDMI, Lenovo OneLink connector combo audio / microphone jack

**Monitor cable**

- None

**Camera**

- Some: HD720p resolution, fixed focus
- Some: 3D camera, Intel RealSense™ 3D Camera

**Audio support**

- HD Audio, Realtek® ALC283 codec, Dolby® Advanced Audio™ v4 / stereo JBL branded speakers, 1.5W x 2 / dual array microphone, combo audio / microphone jack

**Keyboard**

- 6-row, LED backlit, spill-resistant, multimedia Fn keys, numeric keypad, TrackPoint® pointing device and multi-touch with 3+2 buttons click pad

**ThinkLight™**

- None

**Security**

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

**Security chip**

- Some: Trusted Platform Module, TCG 1.2-compliant

**Fingerprint reader**

- None

**NFC**

- None

**Battery type**

- Li-Polymer 4-cell (66Wh)

**Battery life**

- Up to 8.0 hr

**AC adapter**

- Some: 45-watt AC adapter (Integrated Graphics)
- Some: 65-watt AC adapter (Discrete Graphics)

**Light sensor**

- Ambient Light Sensor

**G-sensor/gyroscope**

- 3D accelerometer and 3D magnetometer

**GPS**

- 3D compass, 3D inclinometer

**Preload**

- Some: No operating system
- Some: Windows® 7 Professional 64 bit preinstalled through downgrade rights in Windows 8.1 Pro 64-bit
- Lenovo Solution Center
- Lenovo SHAREit
- ThinkVantage Product Recovery
- Rescue and Recovery™
- ThinkVantage System Update
- PC Device Stage
- Adobe® Reader®
- Evernote®
- Skype™
- Maxthon Cloud Browser
- Bing Translator
- Norton Security
- Microsoft Office preloaded; purchase a product key to activate
- Norton Internet Security (30 days of virus definitions)

**Limited warranty**

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

**Environment**

- EPEAT™ Gold; ENERGY STAR®; RoHS-compliant

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See footnotes for more detailed information

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## ThinkPad Yoga 15 20DQ (Geforce) - TopSeller

### Processor
- **5th Generation Intel® Core™ i3 / i5 / i7 Processor**
- **Processor Number**
  - 3-5010U 2 4 2.1 GHz 3MB DDR3L-1600 HD5500
  - 5-5200U 2 4 2.2 GHz 2.7 GHz 3MB DDR3L-1600 HD5500
  - 7-5500U 2 4 2.4 GHz 3.0 GHz 4MB DDR3L-1600 HD5500

### Graphics
- **Nvidia Geforce 840M Graphics, 2GB DDR3 memory, digital monitor support via HDMI™ (supporting HDCP to output protected content)**

### Chipset
- **Intel SoC (System on Chip) platform**
  - 16GB max / PC3-12800 1600MHz DDR3L

### Display
- **15.6" (396mm) FHD (1920x1080) color, glossy, LED backlight, 300 nits, 16:9 aspect ratio, IPS**
  - Supports 10-finger gesture

### Multi-touch Hinge
- **Yoga hinge, 360 degree**

### Convertible mode
- **Laptop, tent, stand and tablet**
- **Some:** Wacom® Active pen, batteries required

### Storage
- **Some:** SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradeable
- **Some:** HDD / SATA 6.0Gb/s, 2.5" wide, removable, upgradeable, Shock Mounted Hard Drive, Active Protection System™
- **Some:** Hybrid drive with 8GB NAND flash memory

### Optical M.2 SSD
- **None**
- **Some:** M.2 Solid State Drive (SSD), via M.2 Card slot

### Ethernet Bluetooth™
- **None**
- **Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter**

### WLAN
- **One of the following, configurable by model:**
  - Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 Card
  - Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT combo adapter, M.2 Card
  - Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

### WWAN (optional)
- **None**

### Processor vPro Graphics Memory Display Multi-touch Pen Storage Optical WLAN & Bluetooth SSD SIM card Color Camera Keyboard TPM Finger print reader Battery cells(w/h) Power adapter (watt) Preload Base Warranty (year) Global Ann Date (m/y)
20DQ001KUS I5-5200U No 840M 4GBx2 15.6" FHD MT None 180GB SSD OPAL2 None 7265 ac+BT4.0 None None Black 720p Numpad None No 4 (66wh) 65W Win8.1 P64 1-depot No 01/15
20DQ001JUS I5-5200U No 840M 4GBx1 15.6" FHD MT None 500GB SSD 7265 None 7265 ac+BT4.0 160GB None Black 720p Numpad None No 4 (66wh) 65W Win8.1 P64 1-depot No 01/15
20DQ001LUS I7-5500U No 840M 4GBx2 15.6" FHD MT None 256GB SSD OPAL2 None 7265 ac+BT4.0 None None Black 720p Numpad None No 4 (66wh) 65W Win8.1 P64 1-depot No 01/15

### Chipset
- **Intel SoC (System on Chip) platform**
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### Memory
- **Non-parity, dual-channel capable, two 204-pin SO-DIMM sockets**

### Display
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### Ethernet Bluetooth™
- **None**
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  - Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 Card

### WWAN (optional)
- **None**

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*For detailed platform specifications, please see ThinkPad Yoga 15 Platform Specifications sheet*
Lenovo Quick Pick ([http://www.lenovoquickpick.com](http://www.lenovoquickpick.com)) is an options and services configurator for Lenovo systems.

For the options and services information on ThinkPad systems, please see below:

<table>
<thead>
<tr>
<th>ThinkPad 10</th>
<th>ThinkPad 11e Yoga</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkPad Tablet 2</td>
<td></td>
</tr>
<tr>
<td>ThinkPad Helix</td>
<td>ThinkPad Yoga 15</td>
</tr>
<tr>
<td>ThinkPad Yoga</td>
<td></td>
</tr>
</tbody>
</table>

Lenovo Quick Pick (Accessories & Services)

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(P_C-AQP) March 2014
<table>
<thead>
<tr>
<th>Disclaimer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenovo provides the information in the Product Specifications Reference (PSREF) withdrawn product books on an &quot;AS-IS&quot; basis. Because the actual products have been withdrawn from marketing, the information in these withdrawn product books is no longer maintained or updated. The referenced footnote numbering may not correspond with the listed footnotes.</td>
</tr>
</tbody>
</table>

PSREF books for the withdrawn systems:  
http://www.lenovo.com/psref/psrefs_withdrawn.html
Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.


Footnotes:
1 Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
2 Weight includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
3 Thinness may vary at certain points on the system.
4 Wireless capability: Requires compatible wireless-enabled options sold separately.
5 TAA: The ThinkPad notebook is compliant with the U.S. Federal Government’s country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.
6 Public network download modem speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
7 Maximum memory capacity may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.
8 Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

CD/DVD drive speeds list maximum rates; rates are variable and are often less than the maximum.

Battery: These model numbers achieved the battery life based on MobileMark® 2012 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

External monitor: This system supports a maximum of two external monitors. The integrated display(s) must be disabled to support two external monitors.

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

Internet access not included.

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

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

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

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

Depot repair service: The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the limited warranty period.

Operating System: Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

For combination drives, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.
Limited onsite service systems are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by Lenovo. Lenovo will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by Lenovo for onsite replacement. For a list of onsite replaceable parts, contact Lenovo. Support unrelated to a warranty issue may be subject to additional charges. Lenovo onsite repair (LOR), 8 am to 5 pm, Monday through Friday, excluding holidays, next business day (NBD) response time.

Full-size keyboard: As defined by ISO/IEC 15412.

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

The IEEE 802.11n specification (MIMO) has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

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

Wireless upgradable allows the system to be wireless-enabled with an optional wireless Mini PCI or Mini PCI Express card. Designed to operate only with Lenovo options.