### ThinkPad T430s 2355

**Product Specifications Reference (PSREF)**

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk</th>
<th>SATA rpm</th>
<th>Backlit keyboard</th>
<th>PCIe Mini Card WLAN</th>
<th>PCIe Mini Card WWAN/mSATA</th>
<th>SIM card</th>
<th>Finger print reader</th>
<th>Bay battery tery</th>
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<th>Pre-load (mny/yy)</th>
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</table>

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

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

**Ready to install applications**: (only some listed)
- Rescue and Recovery™
- Password Manager

**Preloaded applications**: (only some listed)
- Lenovo® Solution Center
- Lenovo Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- FingerPrint Software (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- Lenovo Cloud Storage by SugarSync
- Lenovo SimpleTap
- Microsoft® Office preloaded: purchase a product key to activate
- Norton™ Internet Security 2012 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Evernote®
- Intel Small Business Advantage
- RapidBoost HDD Accelerator
- Symantec™ VIP
- Windows Live™ Essentials
- Corel® WinDVD® (DVD:RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

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**Positioning**
- Processor: Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000.
  - DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology
  - Intel Core i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000.
- Memory: 16GB max / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, 2x20-pin SO-DIMM sockets
  - * System automatically clocks down for processors with 1333MHz DDR3 memory controller

**Optical Bay battery Ultrabay SATA disk**
- DVD burner, 9.5mm Ultrabay slim, removable
  - Some: ThinkPad Battery 43 (3-cell, bay) (0A36310), used in Option Bay
  - One modular bay for interchangeable devices (right side), 9.5mm high, bottom access
  - Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- mSATA SSD: None
  - All: removable, upgradeable, supports the second disk, Shock Mounted Hard Drive

**Widescreen display**
- Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
  - Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio

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

**Graphics**
- Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent displays:
  - Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)

**Keyboard/Touchpad**
- 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight
- TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar™, magnifying glass
- UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
- Illuminates the keyboard to improve visibility in low-light conditions

**Dimensions**
- Height: from 3.96 lb (1.79kg)
- Weight: 2560x1600@60Hz (DisplayPort via optional Mini DP cable)
- 14.0Vb (WxHxD): 13.5" x 9.05" x 0.83~1.02"; 343mm x 230mm x 21.2~26.0mm
- 6-cell: from 3.96 lb (1.79kg)
- Display cover: Hybrid Carbon-fiber reinforced plastic
- Bottom: Magnesium alloy
- Cell life: up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr): up to 13.2 hr

**Chipset**
- Mobile Intel QM77 Express Chipset

**ExpressCard**
- One slot (ExpressCard/34)

**Smart Card Reader**
- None

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

**Ports**
- Two USB 3.0, one powered USB 2.0, Ethernet (RJ-45), VGA DB-15, Mini DisplayPort (Mini DP / Thunderbolt™ combo port on i7 integrated model, switch via BIOS)

**Preloaded applications**
- Supports ThinkVantage® technologies
  - 65-watt AC adapter
  - ThinkPad Roll Cage (one-piece magnesium frame)
  - EPEAT® Silver rating
  - ENERGY STAR® 5.0-compliant
  - GREENGUARD® certified
  - RoHS-compliant
  - International Warranty Service (24 hour x 7 day) toll-free support during the warranty period

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See footnotes for more detailed information | © Lenovo

*(G-SN4-1) November 2012*
**Product Specifications Reference (PSREF)**

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### ThinkPad T430s 2355 (Windows 8)

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<td>4GBx1</td>
<td>14.0&quot; HD+</td>
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<td>180G SSD</td>
<td>None</td>
<td>Intel 6205 2S</td>
<td>WWAN upg</td>
<td>Finger</td>
<td>6</td>
<td>No</td>
<td>10/12</td>
</tr>
</tbody>
</table>

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

#### Preloaded operating system
- Windows® 8 Pro 64-bit
- **Windows® 7 applications** (only some listed)
  - Lenovo® Message Center Plus
  - ThinkVantage® Product Recovery
  - Access Connections™
  - ThinkVantage® Power Manager
  - Lenovo SimpleTap
  - Adobe® Reader
  - Windows Live™ Essentials
  - Corel® WinDVD® (DVD+RW)
  - Corel DVD MovieFactory® Lenovo Edition (DVD+RW)
- **Windows® 8 models**
  - Lenovo Support
  - Lenovo Companion
  - Lenovo QuickLaunch
  - AccuWeather
  - PC Device Stage
  - Cyberlink Power2Go® (DVD+RW)
  - Cyberlink PowerProducer (DVD+RW)
- **All models**
  - Lenovo Solution Center
  - Password Manager
  - ThinkVantage® System Update
  - Fingerprint Software (fingerprint models)
  - Lenovo Cloud Storage by SugarSync
  - Microsoft® Office preloaded; purchase a product key to activate
  - Norton™ Internet Security (30 days of virus definitions)

#### Supports ThinkVantage® technologies
- 65-watt AC adapter
- ThinkPad Roll Cage (one-piece magnesium frame)
- EPEAT® Silver rating
- ENERGY STAR® 5.0-compliant
- GREENGUARD® certified
- RoHS-compliant
- International Warranty Service
- 24 hour x 7 day toll-free support during the warranty period

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**Positoning**
- Intel® Core™ i7-3520M processor (2 cores, 2.90GHz, 4MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology

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

**Optical Bay battery**
- DVD burner, 9.5mm Ultrabay slim, removable

**Battery**
- None

**SATA disk**
- One modular bay for interchangeable devices (right side), 9.5mm high, bottom access
  - Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high
  - Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- All: removable, upgradeable, supports the second disk, Shock Mounted Hard Drive

**mSATA™ SSD**
- None

**Widescreen display**
- Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
- Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio

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

**Graphics**
- Intel HD Graphics 4000 in processor, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports dual independent display;
- Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);
- 1920x1080@60Hz (single-link DVI-I via optional Mini DP cable);
- 2048x1536@75Hz (VGA)

**Keyboard**
- 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight
- TrackPoint® pointing device, “Press-to-Select,” Internet Scroll Bar, magnifying glass
- UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
- Illuminates the keyboard to improve visibility in low-light conditions

**Dimensions**
- 14.0W (WxDxH): 13.5" x 9.05" x 0.83–1.02"
- 343mm x 230mm x 21.2–26.0mm
- 6-cell: from 3.96 lb (1.79kg)
- Weight
- 6-cell: from 3.96 lb (1.79kg)
- Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy
- Battery - type: Lithium lon 6-cell; supports optional Ultrabay slim as 2nd battery, HW authentication
- Battery - life: 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr, 0A36310): up to 13.2 hr

**Chipset**
- Mobile Intel QM77 Express Chipset
- ExpressCard: One slot (ExpressCard/34)
- Smart Card Reader: None
- Multicard Reader: 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter

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

**PCle WLAN**
- 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2
- 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2
- 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2
- 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2
- 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2
- 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2

**PCle WWAN**
- Wireless WAN upgradable
- Wireless WAN upgradable
- Wireless WAN upgradable
- Wireless WAN upgradable
- Wireless WAN upgradable
- Wireless WAN upgradable

**Modem**
- None
- None
- None
- None
- None
- None

**Bluetooth**
- Bluetooth 4.0 wireless
- Bluetooth 4.0 wireless
- Bluetooth 4.0 wireless
- Bluetooth 4.0 wireless
- Bluetooth 4.0 wireless
- Bluetooth 4.0 wireless

**Ethernet**
- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1
- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1
- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1
- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1
- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1
- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1

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

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

**Fingerprint reader**
- AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator
- Power On Authentication, supports the security chip
- Power On Authentication, supports the security chip
- Power On Authentication, supports the security chip
- Power On Authentication, supports the security chip
- Power On Authentication, supports the security chip

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

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See footnotes for more detailed information © Lenovo (G-SN4-S) November 2012
## ThinkPad T430s 2355 (Optimus)

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<th>Disk</th>
<th>Optical or battery</th>
<th>Backlit keyboard</th>
<th>PCIe Mini Card</th>
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<td>180G SSD</td>
<td>DVD±RW</td>
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</tbody>
</table>

- **Positioning Processor**: **Premiere performance and upgradability**; two spindles Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.3GHz), HT technology
- **Memoy**: 16GB max/12800MHz DD3R, non-parity, dual-channel capible, two 204-pin SO-DIMM sockets
  * System automatically clocks down for processors with 1333MHz DDR3 memory controller
- **Optical Bay memory Ultrabay** DDR burner, 9.5mm Ultrabay slim, removable None
  * One modular bay for interchangeakle devices (right side), 9.5mm high, bottom access
- **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™ All: removable, upgradeable, supports the second disk, Shock Mounted Hard Drive
- **mSATA™ SSD** None

- **Widescreen display** Some: 14.0" (355mm) HD (1366x768) color, anti-glares, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
  * Some: 14.0" (355mm) HD+ (1600x900) color, anti-glares, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio
- **Camera** HD720p resolution, wide view angle, low light sensitive, face tracking, fixed focus

- **Graphics** NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5200M, PCI Express x16, 1GB memory, supports external analog monitor via 2GB 15- and digital monitor via Mini DisplayPort or Thunderbolt (I7 integrated models); supports three independent displays;
  * Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)

- **Keyboard TrackPoint®** 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight
- **Touchpad ThinkLight™** TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar™, magnifying glass
  * UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
  * Illuminates the keyboard to improve visibility in low-light conditions

- **Dimensions³** 14.0W" (WxDxH): 13.5" x 9.05" x 0.83--1.02"; 343mm x 230mm x 21.2--26.0mm
  * 6-cell: from 3.96 lb (1.79kg)
- **Battery** Lithium Ion 6-cell, supports optional Ultrabat Slim battery as 2nd battery, HW authentication
  * 6-cell (43.2Whr): up to 7.6 hr; 6-cell plus 3-cell Bay battery (31.3Whr): up to 13.2 hr

- **Chipset Mobile Intel QM77 Express Chipset**
- **ExpressCard** One slot (ExpressCard/34)
- **Smart Card Reader**
- **Multicard Reader 4-in-1 reader (MMC, SD, SDHC, SDXC) via ExpressCard adapter**
- **Ports** Two USB 3.0, one powered USB 2.0, ethernet (RJ-45), VGA DB-15, Mini DisplayPort

- **PCle Mini Card** Two PCI Express Mini Card slots
- **PCle WLAN²** 11a/b/g/n, PCle Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2
- **PCle WWAN Wireless WAN upgradeable**
- **SIM card** None
- **Modem** None
- **IEEE 1394** None
- **Bluetooth™** Bluetooth 4.0 wireless
- **Intel AMT** Intel AMT
- **Audio support** HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, 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** AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip

- **Limited warranty¹² 3-years/1-yr battery - depot repair service / service upgrades¹² available**

- **Preloaded operating system¹⁰**
  - Genuine Windows® 7 Professional 64

- **Ready to install applications¹⁴ (only some listed)**
  - Rescue and Recovery™
  - Password Manager

- **Preloaded applications¹⁴ (only some listed)**
  - Lenovo® Solution Center
  - Lenovo Message Center Plus
  - ThinkVantage Product Recovery
  - Access Connections¹⁰
  - FingerPrint Software (fingerprint models)
  - ThinkVantage System Update
  - ThinkVantage Power Manager
  - Lenovo Cloud Storage
  - by SugarSync
  - Lenovo SimpleTap

  - Microsoft® Office preloaded; purchase a product key to activate

- **Energy Star**
  - Nortn™ Internet Security 2012 (30 days of virus definitions)
  - Adobe® Reader
  - Skype™ for Windows
  - Evernote®
  - Intel Small Business Advantage
  - RapidBoot HDD Accelerator
  - Symantec™ VIP
  - Windows Live™ Essentials
  - Corel® WinDVD® (DVD:RW)
  - Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

- **Supports ThinkVantage™ technologies**
  - 90-watt AC adapter
  - ThinkPad Roll Cage (one-piece magnesium frame)
  - EPEAT® Silver rating
  - ENERGY STAR® 5.0-compliant
  - GREENGUARD® certified
  - RoHS-compliant

- **International Warranty Service¹⁷**
  - 24 hour x 7 day¹⁴ toll-free support during the warranty period¹¹
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#### Preloaded operating system
- Windows® 8 Pro 64-bit

#### Preloaded applications (only some listed)
- Windows 7 models
- Lenovo® Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- ThinkVantage Power Manager
- Lenovo® SimpleTap
- Adobe® Reader
- Windows Live® Essentials
- Corel® WinDVD®
- Corel® Burn.Now!® Lenovo Edition
- Corel® DVD MovieFactory® Lenovo Edition

#### Limitations
- Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo® QuickLaunch
- AccuWeather
- PC Device Stage
- Cyberlink Power2Go (DVD±RW)
- Cyberlink PowerProducer (DVD±RW)
- All models
- Lenovo Solution Center
- Password Manager
- ThinkVantage System Update
- FingerPrint Software (fingerprint models)
- Lenovo Cloud Storage by SugarSync
- Microsoft® Office preloaded; purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

* A depot repair service 3-year limited warranty

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#### Technical Specifications

**Positioning**
Premiere performance and ultraportability; two spindles

**Processor**
Intel® Core(TM) i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3-30GHz), HT technology

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

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

**Optical Bay battery Ultrabay SATA disk mSATA™ SSD**

- DVD burner, 9.5mm Ultrabay slim, removable
- None
- One modular bay for interchangeable devices (right side), 9.5mm high, bottom access
- Some: Solid State Drive (SSD) / SATA 6.0Gb/s, 2.5" wide, 7mm high
- Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™
- All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive
- None

**Widescreen display**

- Some: 14.0" (355mm) HD (1366x786) color, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
- Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio

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

**Graphics**

- NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS™ 5200M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort or Thunderbolt (17 integrated models); supports three independent displays;
- Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@85Hz (VGA)

**Keyboard**
6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight

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

**ThinkLight™**
Illuminates the keyboard to improve visibility in low-light conditions

**Dimensions**
14.0W" (355mm) x 9.05" x 0.83–1.02"; 343mm x 230mm x 21.2–26.0mm

**Weight**
3.96 lb (1.79kg)

**Case material**
Hybrid Carbon-fiber reinforced plastic

**Battery - type**
Lithium Ion 6-cell, supports optional Ultrabay Slim battery as 2nd battery, HW authentication

**Battery - life**
Up to 13.2 hr

**Chipset**
Mobile Intel QM77 Express Chipset

**ExpressCard Smart Card Reader**
One slot (ExpressCard/34)

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

**Pcie Mini Card Ports**
Two PCE Express Mini Card slots

**Pcie WLAN**
11a/b/g/n, PCE Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2

**Pcie WWAN**
Wireless WAN upgradable

**SIM card**
None

**Modem**
None

**IEEE 1394**
None

**Bluetooth**
Bluetooth 4.0 wireless

**Ethernet**
Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCE x1

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

**Audio support**
HD Audio, Realtek® ALC3202 codec, Dolby® Home Theater® v4 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack

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

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

**Fingerprint reader**
AuthenTec fingerprint reader on palm rest, swipe sensor, LED indicator

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

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See footnotes for more detailed information

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<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
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<th>Disk</th>
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### Preloaded applications

- **Professional 64**
- **EPEAT Silver**
- **RoHS-compliant**
- **ENERGY STAR 5.0-compliant**
- **GREENGUARD certified**

### Limited warranty

- **3-years/1-year battery, limited onsite service**: 8 am - 5 pm, Mon - Fri covering public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available.

See footnotes for more detailed information © Lenovo (G-SN4-3) August 2013
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</table>

* Some models are part of the Global Models Plus program with limited onsite service2 - 3-year limited warranty

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

### Preloaded applications
- Only some listed
- Windows 7 models
- Lenovo® Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- ThinkVantage Power Manager
- Lenovo SimpleTap
- Adobe® Reader™
- Windows Live™ Essentials
- Corel® WinDVD® (DVD:RW)
- Corel Burn Now™ Lenovo Edition (DVD:RW)
- Corel DVD MovieFactory™ Lenovo Edition (DVD:RW)

### Windows 8 models
- Lenovo Support
- Lenovo Companion
- Lenovo QuickLaunch
- AccuWeather
- PC Device Stage
- Cyberlink Power2Go (DVD:RW)
- Cyberlink PowerProducer (DVD:RW)

### All models
- Lenovo Solution Center
- Password Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- Lenovo Cloud Storage via SugarSync
- Microsoft® Office preloaded: purchase a product key to activate
- Norton™ Internet Security (30 days of virus definitions)

### See footnotes for more detailed information

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(G-SN4-7) August 2013
### ThinkPad T430s 2356 (Optimus) - Onsite

#### Product Specifications Reference (PSREF)

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#### Preloaded operating system
- Genuine Windows® 7 Professional 64

#### Preloaded applications
- Rescue and Recovery™
- Password Manager

#### Limited warranty
- 3-years/1-year battery, limited onsite service® 8, 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available

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*Some models are part of the Global Models Plus program with limited onsite service® 3-year limited warranty*
## ThinkPad T430s 2356 (Optimus) - Onsite (Windows 8)

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<td>6 vPro</td>
<td>Win7 Pro64</td>
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</tbody>
</table>

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

### Preloaded applications
- Windows 7 models
  - Lenovo® Message Center Plus
  - ThinkVantage Product Recovery
  - Access Connections
  - ThinkVantage Power Manager
  - Lenovo SimpleTap
  - Adobe® Reader®
  - Windows Live™ Essentials
  - Corel® WinDVD® (DVD/DRW)
  - Corel DVD MovieFactory™ Lenovo Edition (DVD/DRW)
- Windows 8 models
  - Lenovo Support
  - Lenovo Companion
  - Lenovo QuickLaunch
  - AccuWeather
  - PC Device Stage
  - CyberLink Power2Go (DVD/DRW)
  - CyberLink PowerProducer (DVD/DRW)
- All models
  - Lenovo Solution Center
  - Password Manager
  - ThinkVantage System Update
  - FingerPrint Software (fingerprint readers)
  - Lenovo Cloud Storage
  - Microsoft® Office preloaded; purchase a product key to activate
  - Norton™ Internet Security (30 days of virus definitions)

### See footnotes for more detailed information

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