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

### Preloaded operating system
- Genuine Windows® 7 Professional 64
- Ready to install applications
  - Lenovo® Solution Center
  - Lenovo Message Center Plus
  - ThinkVantage Product Recovery
  - Access Connections™
  - Lenovo Cloud Storage
  - 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
  - RapidBoot HDD Accelerator
  - Symantec™ VIP
  - Windows Live™ Essentials
  - Corel® WinDVD® (DVD:RW)
  - Corel BurnNow™ Lenovo Edition (DVD:RW)
  - Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

### Product Specifications Reference (PSREF)

#### Display
- **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

#### Graphics
- **Intel HD Graphics 3000 or 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); 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)

#### Keyboard and Touchpad
- **Premiere performance; two spindles**
- **Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology**
- **Intel Core i5-3210M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology**
- **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**

#### Preloaded applications
- **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**
- **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**
- **RapidBoot HDD Accelerator**
- **Symantec™ VIP**
- **Windows Live™ Essentials**
- **Corel® WinDVD® (DVD:RW)**
- **Corel BurnNow™ Lenovo Edition (DVD:RW)**
- **Corel DVD MovieFactory® Lenovo Edition (DVD:RW)**

####Chipset
- **Mobile Intel GM77 Express Chipset**
- **One slot (ExpressCard/34)**

####Supports ThinkVantage™ technologies
- **65-watt AC adapter**
- **ThinkPad Roll Cage (one-piece magnesium frame)**
- **EPEAT® Gold 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**

For compatible accessories, please go to O-T430 sheet.
For Lenovo service upgrade options, please go to QP-TA sheet.

---

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

---

**Note:** Lenovo (N24-1) September 2012
Preloaded applications\(^5\) (only some listed)

- Windows 7 models
- Lenovo+ Message Center Plus
- ThinkVantage Product Recovery
- Access Connections\(^5\)
- ThinkVantage Power Manager
- Lenovo SimpleTap
- Adobe Reader
- Corel\(^\text{®}\) WinDVD\(^\text{®}\) (DVD:RW)
- Corel\(^\text{®}\) Burn\(^\text{®}\) Now\(^\text{TM}\) Lenovo Edition (DVD:RW)
- Corel\(^\text{®}\) DVD MovieFactory\(^\text{®}\) Lenovo Edition (DVD:RW)

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

- All models
- Lenovo Solution Center
- Password Manager
- ThinkVantage System Update
- Fingerprint Software (fingerprint models)
- Lenovo Cloud Storage by SugarSync
- Microsoft\(^\text{®}\) Office preloaded; purchase a product key to activate
- Norton\(^\text{TM}\) Internet Security
- (30 days of virus definitions)
- Skype\(^\text{®}\)

Limited warranty\(^{11}\) 1-year - depot repair service / service upgrades\(^{20}\) available

See footnotes for more detailed information © Lenovo (NZA-9) April 2013

Preloaded operating system\(^{10}\)
- Some: Windows\(^7\) Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
- Some: Windows 8 Pro 64-bit

Other:
- 65-watt AC adapter
- ThinkPad Roll Cage (one-piece magnesium frame)
- EPEAT\(^\text{®}\) Gold rating
- ENERGY STAR\(^\text{®}\) 5.0-compliant
- GREENGUARD\(^\text{®}\) certified
- RoHS-compliant
- International Warranty Service\(^{17}\) 24 hour x 7 day\(^{18}\) toll-free support during the warranty period\(^{19}\)

For compatible accessories, please go to O-T430 sheet.
For Lenovo service\(^{21}\) upgrade options, please go to OP-TA sheet
| Type-model | Processor | Memory | Wide-screen display | Camera | Disk SATA GB | Gbit Ethernet | PCIe Mini Card | Finger print reader | Battery type | Intel AMT | Intel-free | Preload |
|------------|-----------|--------|---------------------|--------|--------------|---------------|----------------|----------------|--------------|-------------|-----------|-----------|---------|
| 2344-5NU   | i7-3520M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 7200          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-5MU   | i7-3520M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 7200          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-5LU   | i7-3520M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 7200          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-5KU   | i7-3520M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 7200          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-5HU   | i5-3320M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 180G SSD      | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-5FU   | i5-3320M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 500G          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-5EU   | i5-3320M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 500G          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-5DU   | i5-3210M  | 4GBx1  | 14.0" HD+            | 720p   | 500G         | 500G          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-5CE   | i5-3320M  | 4GBx2  | 14.0" HD+            | 500G   | 7200         | None          | None           | None           | None         | None       | None      | None    |
| 2344-5HD1  | i5-3320M  | 4GBx2  | 14.0" HD+            | 500G   | 7200         | None          | None           | None           | None         | None       | None      | None    |
| 2344-5FU1  | i5-3320M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 500G          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 06/12 |
| 2344-6XU   | i5-3320M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 180G SSD      | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 07/12 |
| 2344-6RU   | i5-3320M  | 4GBx2  | 14.0" HD+            | 720p   | 500G         | 500G          | None           | Intel 6205WAN upg Finger | BT           | 6 IAMT vPro | Pro 64 07/12 |

- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **A depot repair service 3-year limited warranty**

### Positioning
Processor:
- **Intel Core i5-3520M processor (2 cores, 2.50GHz, 3MB cache)**, Intel HD Graphics 4000, DDR3 1066MHz memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.60GHz), HT technology
- **Intel Core i3-3210M processor (2 cores, 2.50GHz, 3MB cache)**, Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology
- **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 (3.10GHz), HT technology

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

### Optical
- DVD burner, 12.7mm Ultraport Enhanced, removable
- One bay for removable devices, Ultraport Slim-compatible, 12.7mm high, bottom access
- Some: Solid State Drive (SSD) / SATA 6.Gb/s, 2.5" wide, 7mm high
- Some: Hard Drive Disk / 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, 1200 nits, 30:1 aspect ratio, 720p resolution, side view angle, low light sensitive, face tracking, fixed focus wide format
- Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 30:1 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); 1920x1200®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, TouchPad pointing device, "Press-to-Select" Internet Scroll Bar™, magneto-optic glass

### Touchpad
- UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
- Illuminates the keyboard to improve visibility in low-light conditions

### Dimensions
- 14.6Wx(H)x1.36D
- 3.50mm x 270mm x 21.8mm
- 14Wx(H)x1.52D
- 3.50mm x 270mm x 21.8mm
- 14Wx(H)x1.62D
- 3.50mm x 270mm x 21.8mm

### Weight
- 1.35kg

### Case material
- Display cover: Carbon-fiber / Glass-fiber hybrid
- Bottom: Carbon-Fiber Reinforced Plastic

### Battery - type
- Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication
- 6-cell (57Wh): up to 9.7 hr; 9-cell (94Wh): up to 16.2 hr
- 9-cell plus 9-cell Slice battery (94Wh, 0A36304): up to 32.5 hr

### Chipset
- Mobile Intel QM77 Express Chipset
- Supports ThinkVantage technologies

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

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

### Ports
- Two USB 3.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)

### Security
- Lenovo Fingerprint Software (fingerprint authentication)
- Fingerprint Reader (touchpad)
- Access Connections
- Lenovo Message Center Plus
- Lenovo Rescue and Recovery
- Lenovo Internet Security 2012
- McAfee VirusScan

### Preloaded applications
- Internet Security 2012
- Lenovo SimpleTap
- Lenovo Internet Security 2012
- Norton™ Internet Security 2012
- Adobe® Reader
- Skype™ for Windows
- Evernote®
- Intel Small Business Advantage
- RapidBoot HHD Accelerator
- Symantec® VIP
- Windows Live™ Essentials
- Corel® WinDVD™ (DVD:RW)
- Corel Burn Now™ Lenovo Edition (DVD:RW)
- Corel DVD MovieFactory™ Lenovo Edition (DVD:RW)

### For compatibility accessories, please go to O-T430 sheet;
- For Lenovo service upgrade options, please go to QP-TA sheet

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**See footnotes for more detailed information**
### ThinkPad T430 2344 (TopSeller) - Windows 8

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</tbody>
</table>

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

#### Preloaded applications
- **Some:**
  - Lenovo SimpleTap
  - Corel WinDVD® (DVD±RW)
  - Corel Burning Software Lenovo Edition (DVD±RW)

- **Some:**
  - Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

- **Windows 8 models**
  - Lenovo Support
  - Lenovo Companion
  - Lenovo QuickLaunch

- **All models**
  - Lenovo Solution Center
  - Password Manager
  - ThinkVantage System Update
  - FingerPrint Software (fingerprint models)
  - Lenovo Cloud Storage

- **Lenovo Cloud Storage** by SugarSync
- **Microsoft® Office preloaded:**
  - purchase a product key to activate
- **Skype™**

### Features
- **Small and medium business (SMB) model(s), part of the US TopSeller™ Program**
- **A depot repair service-3 year limited warranty**

#### 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**

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

- **Widescreen display**
  - 14.0” (355mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 300:1 contrast ratio

- **Battery**
  - 9-cell (94Whr): up to 16.2 hr; 6-cell: up to 12.9 hr

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

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

- **Battery**
  - Lithium Ion 6-cell or 9-cell, optional Slice battery as second battery, HW Authentication 6-cell (57Whr): up to 9.7 hr; 9-cell (94Whr): up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 32.5 hr

- **Chipset**
  - Mobile Intel QM77 Express Chipset

- **Dimensions**
  - 2560x1600® HD (DisplayPort via optional Mini DP cable); 1920x1200® HD (single-link DVI via optional Mini DP cable); 2048x1536® HD (VGA)

- **Battery**
  - 9-cell (94Whr): up to 16.2 hr; 6-cell: up to 12.9 hr

- **Chipset**
  - Mobile Intel QM77 Express Chipset

- **Smart Card read**
  - None

- **USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)

- **Audio**
  - HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack

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

- **Engraved logo**
  - Lenovo

- **Carry Case**
  - None

- **IEEE 1394**
  - None

- **BT 4.0 wireless**
  - Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1

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

- **Limited warranty**
  - 3-years/1-year battery - depot repair service / service upgrades*2 available

See footnotes for more detailed information © Lenovo (NZ4-11) July 2013
### ThinkPad T430 2342 (Optimus) - TopSeller

<table>
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<th>Finger print reader</th>
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</table>

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

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

### Ready to install applications
- (only some listed)
  - Norton™ AntiVirus
  - Norton™ Internet Security 2012
  - ThinkVantage Software (fingerprint models)
  - ThinkVantage System Update
  - ThinkVantage Power Manager
  - Lenovo Cloud Storage

### Preloaded applications
- (only some listed)
  - Lenovo® Solution Center
  - Lenovo Message Center Plus
  - ThinkVantage Product Recovery
  - Access Connections™
  - Fingerprint Software (fingerprint models)

### Support
- Lenovo SimpleTap
- Skype™ for Windows
- Evernote™
- Intel Small Business Advantage
- RapidBoot HDD Accelerator
- Symantec™ VIP
- Lenovo Live Essentials
- Corel® WinDVD® (DVD+RW)
- Corel Burn.Now™
- Corel® DVD MovieFactory (DVD+RW)
- Corel® Burner Plus

### Features
- 90-watt AC adapter
- ThinkPad Roll Cage (one-piece magnesium frame)
- Windows Live™ Essentials
- Corel® DVD MovieFactory (DVD+RW)
- Corel® Burner Plus
- Corel® Burning Suite

### Warranties
- For compatible accessories, please go to O-T430 sheet; for Lenovo service upgrade options, please go to QP-TA sheet

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See footnotes for more detailed information

© Lenovo (NZ4-8) August 2012
### Positioning Processor

Premiere performance: two spindles Intel® Core™ i5-2520M processor (2 cores, 2.50GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology

### Memory

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

### Optical Ultrabay SATA disk

DVD burner, 12.7mm Ultrabay Enhanced, removable

One bay for removable devices, Ultrabay Slim-compatible, 12.7mm 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

### 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

NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 3000 in processor, and NVIDIA NVS™ 5400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort;

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

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

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

Illuminates the keyboard to improve visibility in low-light conditions

### Dimensions³

14.0W⁵ (WxDxH): 13.4" x 9.13" x 1.17" - 1.18"; 340.5mm x 232.0mm x 29.8 - 29.9mm

6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg)

### Case material

Display cover: Carbon-fiber / Glass-fiber hybrid;

Bottom: Carbon-Fiber Reinforced Plastic

Battery - type Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication

Battery - life³

6-cell (57Whr): up to 9.4 hr;

9-cell (94Whr): up to 15.8 hr

9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr

### Chipset

Mobile Intel QM77 Express Chipset

One slot (ExpressCard/34)

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

Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)

### Preloaded operating system⁴

- Windows® 8 Pro 64-bit

### Preloaded applications⁵ (only some listed)

- Windows 7 models
- Lenovo® Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- ThinkVantage Power Manager
- Lenovo SimpleTap
- Adobe® Reader®
- Corel® WinDVD® (DVD±RW)
- Corel® DVD MovieFactory® Lenovo Edition (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)
- Skype®

### Chipset Features

- Supports ThinkVantage™ technologies

### Security

Supported by:

- LED backlight,
- 14.0" HD+ (1600x900) color
- anti-glare,
- LED backlight,
- 14.0" (355mm) HD;
- anti-glare,
- LED backlight,
- 14.0" (355mm) HD;
- anti-glare,
- LED backlight,
- 14.0" (355mm) HD;
- anti-glare,
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- LED backlight,
- 14.0" (355mm) HD;
- anti-glare,
- LED backlight,
## Product Specifications Reference (PSREF)

**ThinkPad T430 2344 (Optimus) - TopSeller**

### Positioning
- Processor: Premier performance; two spindles

### 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 (3.0GHz), HT technology
- **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 (3.0GHz), HT technology
- **Intel Core i3-3217U** processor (2 cores, 1.7GHz, 3MB cache), Intel HD Graphics 4000, DDR3 memory controller (up to 1600MHz), Intel Turbo Boost 2.0 (2.7GHz), 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 Ultrabay SATA disk
- DVD burner, 12.7mm Ultrabay Enhanced, removable
- One bay for removable devices, Ultrabay Slim-compatible, 12.7mm 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

### Widescreen display
- 14.0" (355mm) HD (1366x768) color, anti-glare LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
- 14.0" (355mm) HD+ (1600x900) color, anti-glare LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio
- 14.0" (355mm) FHD+ (1600x1200) color, anti-glare LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio

### Graphics
- NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and NVIDIA NVS® 4400M, PCI Express® x16, 1GB memory, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays;
- Maximum external resolution: 2560x1600@60Hz (DisplayPort via optional Mini DP cable);
- 1920x1080@60Hz (single-link DVI-I via optional Mini DP cable);
- 2560x1600@60Hz (DisplayPort via optional Mini DP cable);
- Some: 1600x900 (300:1 contrast ratio)
- Some: 1600x900 (300:1 contrast ratio)
- Some: 1600x900 (300:1 contrast ratio)

### 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
- ThinkLight™ illuminates the keyboard to improve visibility in low-light conditions

### Dimensions
- 14.0W" (WXDXH): 13.4" x 9.13" x 1.17"-1.18"; 340.55mm x 232.00mm x 29.8-29.9mm
- 6-cell: from 4.77 lb (2.17kg); 9-cell: from 5.13 lb (2.33kg)

### Preloaded applications
- Preloaded operating system
  - Genuine Windows 7 Professional 64
  - Rescue and Recovery™
  - Password Manager

### Preloaded applications
- 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
- RapidBoot HDD Accelerator
- Symantec™ VIP
- Windows Live™ Essentials
- Corel® WinDVD® (DVD:RW)
- Corel BurnNow™ Lenovo Edition (DVD:RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

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

### Support
- 24 hour x 7 day18 toll-free support
- Lenovo Small Business Advantage
- Intel® Active Management Technology (iAMT)
- Intel® Small Business Advantage
- RapidBoot HDD Accelerator
- Symantec™ VIP
- Windows Live™ Essentials
- Corel® WinDVD® (DVD:RW)
- Corel BurnNow™ Lenovo Edition (DVD:RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD:RW)

### Editions
- Standard Edition (32-bit or 64-bit)
- Professional Edition (32-bit or 64-bit, DVD RW)

### Features
- Ethernet (10/100/1000) - 1 port
- Ethernet (10/100) - 1 port
- Ethernet (10/100/1000) - 2 ports
- Ethernet (10/100) - 2 ports

### Accessories
- ThinkPad Roll Cage (one-piece construction)
- 90-watt AC adapter
- ThinkPad Bag (one-piece magnesium frame)
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- GREENGUARD® certified
- RoHS-compliant
- 24 hour x 7 day18 toll-free support during the warranty period

### Support
- For compatible accessories, please go to O-T430 sheet;
- For Lenovo service22 upgrade options, please go to QP-TA sheet

### See footnotes for more detailed information

© Lenovo (NZ4-3) August 2012
<table>
<thead>
<tr>
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<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA</th>
<th>GB/ rpm</th>
<th>Backlit keyboard</th>
<th>PCle Mini Card</th>
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<th>Finger print reader</th>
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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**

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

### Preloaded applications
- Only some listed

- **Windows 7 models**
  - Lenovo® Message Center Plus
  - ThinkVantage Product Recovery
  - Access Connections™
  - ThinkVantage Power Manager
  - Lenovo SimpleTap
  - Corel® WinDVD™ (DVD:RW)
  - Corel DVD MovieFactory™ Lenovo Edition (DVD:RW)

- **Windows 8 models**
  - Lenovo Support
  - Lenovo Companion
  - Lenovo QuickLaunch
  - 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
  - Skype™

### Support
- 90-watt AC adapter
- ThinkPad Roll Cage (one-piece magnesium frame)
- EPEAT™ Gold rating
- ENERGY STAR® 5.0 compliant
- GREENGUARD® certified
- RoHS-compliant
- International Warranty Service® 24 hour x 7 day 7/8 toll-free support during the warranty period

For compatible accessories, please go to O-T430 sheet;
For Lenovo service update, please go to GP-7A sheet
<table>
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* A depot repair service 3-year limited warranty

### Preloaded operating system
- Genuine Windows 7

### 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
- RapidBoot HDD Accelerator
- Symantec Retail® AntiVirus
- Windows Live™ Essentials
- Corel® WinDVD® (DVD:RW)
- Corel® Burn:Now® Lenovo Edition (DVD:RW)
- Corel® DVD MovieFactory® Lenovo Edition (DVD:RW)

### See footnotes for more detailed information

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(N24-4) September 2012
## ThinkPad T430 2347 (Windows 8)

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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
- **Screen resolution**: In processor, some: 1920x1200@60Hz (single-link DVI-I via optional Mini DP cable); 2048x1536@75Hz (VGA)

**Widescreen display**

- Some: 14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight, 250 nits, 180° aspect ratio, 30:1 contrast ratio
- Some: 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 160° aspect ratio, 30:1 contrast ratio

**Battery**

- Lithium ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication
- 6-cell (57Whr) or 9-cell (94Whr) up to 9.7 hr; 9-cell (94Whr) up to 16.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304) up to 32.5 hr

**Chipset**

- Mobile Intel QM77 Express Chipset

**ExpressCard**

- One slot (ExpressCard/34)

**Smart Card read**

- None

**Multi card reader**

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

**PCie Mini Card**

- Two PCI Express Mini Card slots
- 11a/b/g, PCle Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2

**PCie WLAN**

- Wireless WAN upgradeable

**Carrier**

- None

**Modem**

- None

**IEEE 1394**

- None

**Bluetooth**

- Some: Bluetooth 4.0 wireless

**Ethernet**

- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCie x1

**Audio support**

- HD Audio, Realtek® ALC2302 codec, Dolby® Advanced Audio™ v2 / stereo speakers, 1W x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack

**Security chip**

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

**Fingerprint reader**

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

**Limited warranty**

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

---

* A depot repair service 3-year limited warranty

---

**Preloaded operating system**

- Some: Windows® 7 Professional 64
- Some: Windows 8 Pro 64-bit

**Preloaded applications**

- Windows 7 models
- Lenovo® Message Center Plus
- ThinkVantage Product Recovery
- Access Connections™
- ThinkVantage Power Manager
- Lenovo Simple Tap
- 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
- 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
- Skype™

**For compatible accessories, please go to O-T430 sheet:**

- Lenovo service22 upgrade options, please go to QP-TA sheet

---

See footnotes for more detailed information
ThinkPad T430 2347 (Optimus)  

**Product Specifications Reference (PSREF)**

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

**Ready to install applications** (only some listed):
- ThinkVantage Recovery™
- Password Manager
- 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
- Lenovo SimpleTap
- Microsoft® Office preloaded; purchase a product key to activate

**Preloaded applications** (only some listed):
- Lenovo vPro G Pro 64 06/12
- Windows Live® Essentials
- Corel® WinDVD® (DVD±RW)
- Corel® vPro G Pro 64 06/12
- Lenovo Edition
- Corel® vPro G Pro 64 06/12
- Lenovo Edition (DVD±RW)
- Corel® vPro G Pro 64 06/12
- Lenovo Edition (DVD±RW)
- 90-watt AC adapter
- ThinkPad Roll Cage (one-piece magnesium frame)
- EPEAT® Gold rating
- ENERGY STAR® 5.0-compliant
- GREENGUARD® certified
- RoHS-compliant
- International Warranty Service 17
- 24 hour x 7 day® toll-free support during the warranty period 17

---

### Type-model | Processor | Memory | Wide-screen display | Camera | Disk | Backlit keyboard | PCIe Mini Card | PCIe Mini Card | Finger print reader | Blue- tooth cells | Battery | Global (G) | Intel | GMP | Preload (mm/yy) | Ann Date
---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
2347-G9U | i7-3520M | 4GBx1 | 14.0” HD+ 720p | None | Intel 6205™ | WWAN upg | Finger | BT | 9 | vPro | G | Pro 64 | 06/12

---

### Widescreen display

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

---

### Preload service 3-year limited warranty

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### Key Features

- **Processor**: Intel® Core™ i5-3320M processor (2 cores, 2.60GHz, 3MB cache), Intel HD Graphics 4000.
- **Memory**: 16GB max / PC3-12800 1600MHz DDR3, non-parity.
- **Graphs**: NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 4000 in processor, and Intel® Navi™ V5400M, PCI Express x16, 1GB memory.
- **Keyboard**: 6-row, 84-key, ThinkVantage button, spill-resistant, multimedia Fn keys, optional LED backlight.
- **Memory**: 16GB max / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets.
- **Battery**: 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 31.6 hr.

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**Accessories**

For compatible accessories, please go to O-T430 sheet; For Lenovo service22 upgrade options, please go to OP-TA sheet

---

**Lenovo**

(NZ4-5) June 2012

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**See footnotes for more detailed information**
### ThinkPad T430 (Optimus) - Windows 8

#### Preload

**Preloaded operating system**: Windows 7 Professional preinstalled through downgrade rights in 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™
  - Corel® WinDVD® (DVD:RW)
  - Corel® WinDVD® (DVD:RW)
  - Corel® MovieFactory® (DVD:RW)
  - Corel® DVD MovieFactory® (DVD:RW)
- Windows 8 models
  - Lenovo Support
  - Lenovo Companion
  - Lenovo QuickLaunch
  - 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
  - Skype™

#### Limited warranty

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

---

### Product Specifications Reference (PSREF)

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- * A depot repair service 3-year limited warranty
### ThinkPad T430 2349 (Onsite)

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### Preloaded operating system

- Genuine Windows® 7 Professional 64

### Preloaded applications

- Rescue and Recovery™
- Password Manager

### Chipset

**ExpressCard**

- Mobile Intel QM77 Express Chipset

**Smart Card reader**

- Some: Card reader (MMC, SD, SDHC, SDXC)

**Multicard reader**

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

**Ports**

- Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)

**PCle Mini Card**

- Two PCI Express Mini Card slots

**PCle WLAN**

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

**PCle WWAN**

- Some: Wireless WAN upgradable

**Carrier Modem**

- None

**Ethernet**

- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1

**Intel AMT**

- Intel Active Management Technology (iAMT)

**Audio support**

- HD Audio, Realtek ALC2302 codec, Dolby® Advanced Audio™ v2 / 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 warranty**

- 3-years/1-year battery, limited onsite service®, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time / service upgrades² available

---

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

- Positioning Processor
- Memory
- Optical Ultrabay
- Graphics
- Keyboard
- Touchpad
- Trackpoint
- ThinkLight™
- Dimensions
- Weight
- Case material
- Battery - type
- Battery - life

---

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

---

See footnotes for more detailed information © Lenovo (N24-6) September 2012
ThinkPad T430 2349 (Onsite) - Windows 8

Product Specifications Reference (PSREF)

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- Some models are part of the Global Models Plus program with limited onsite service\(^a\) 3-year limited warranty
- Preloaded operating system\(^a\)
  - Some: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8 Pro 64-bit
  - Some: Windows 8 Pro 64-bit
- Preloaded applications\(^a\) (only some listed)
  - Windows 7 models
    - Lenovo\(^a\) Message Center Plus
    - ThinkVantage Product Recovery
    - Access Connections\(^a\)
    - ThinkVantage Power Manager
    - Lenovo SimpleTap
    - Adobe\(^a\) Reader\(^a\)
    - Corel\(^a\) WinDVD\(^a\) (DVD:RW)
    - Corel Burn.Now\(^a\) Lenovo Edition (DVD:RW)
    - Corel DVD MovieFactory\(^a\) Lenovo Edition (DVD:RW)
- Windows 8 models
  - Lenovo Support
  - Lenovo Companion
  - Lenovo QuickLaunch
  - 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\(^a\) Office preloaded; purchase a product key to activate
      - Skype\(^a\)
- Chipset
  - Mobile Intel QM77 Express Chipset
  - One slot (ExpressCard/34)
  - Smart Card read None
  - Multicard reader 4-in-1 reader (MMC, SD, SDHC, SDXC)
  - Ports
    - Two USB 3.0, Two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)
  - Supports ThinkVantage\(^a\) technologies
  - 65-watt AC adapter
  - ThinkPad Roll Cage (one-piece magnesium frame)

See footnotes for more detailed information

© Lenovo (NZ4-14) December 2012
* Part of the Global Models Plus program with limited onsite service†3 3-year limited warranty

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA</th>
<th>GB rpm</th>
<th>Backlit keyboard</th>
<th>PCIe Mini Card</th>
<th>PCIe Mini Card</th>
<th>Finger print reader</th>
<th>Battery</th>
<th>Global (G)</th>
<th>Load Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2349-G6U</td>
<td>i5-3320M</td>
<td>4GBx1</td>
<td>14.0&quot; HD+</td>
<td>720p</td>
<td>180G SSD</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Finger</td>
<td>BT 9</td>
<td>vPro G P</td>
<td>Pro 64</td>
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<tr>
<td>2349-G7U</td>
<td>i5-3320M</td>
<td>4GBx1</td>
<td>14.0&quot; HD+</td>
<td>720p</td>
<td>500G 7200</td>
<td>7200</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Finger</td>
<td>BT 9</td>
<td>vPro G P</td>
<td>Pro 64</td>
</tr>
<tr>
<td>2349-G6U</td>
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<td>4GBx1</td>
<td>14.0&quot; HD+</td>
<td>720p</td>
<td>500G 7200</td>
<td>7200</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<td>BT 9</td>
<td>vPro G P</td>
<td>Pro 64</td>
</tr>
<tr>
<td>2349-G4U</td>
<td>i5-3320M</td>
<td>4GBx1</td>
<td>14.0&quot; HD+</td>
<td>720p</td>
<td>320G 7200</td>
<td>7200</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>Finger</td>
<td>BT 9</td>
<td>vPro G P</td>
<td>Pro 64</td>
</tr>
</tbody>
</table>

**Positioning Processor**
Premiere performance: 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 (3.60GHz), HT technology 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 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 Ultrabase**
DVD burner, 12.7mm Ultrabay Enhanced, removable
One bay for removable devices. Ultrabay Slim-compatible, 12.7mm 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

**sMATA™ SSD**
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

**Widescreen display**
NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics.
Intel HD Graphics 4000 in processor, and
Intel® NVS™ 5400M, PCI Express® x16, 1GB memory,
supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort;
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)

**Graphics**
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
Surround Sound, 2x2 customized speakers, 1GB memory, 1GB of memory, 1000GB of storage

**Tracks**
Lithium-ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication
6-cell (57Whr): up to 9.4 hr;
9-cell (94Whr): up to 11.7 hr;
9-cell (94Whr): up to 13.2 hr

**Chipset**
Mobile Intel GM77 Express Chipset
One slot (ExpressCard/54)
4-in-1 reader (MMC, SD, SDHC, SDXC)
Two USB 3.0, two USB 2.0 (one powered), VGA DB-15, Mini DisplayPort, ethernet (RJ-45)

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

Ready to install applications†4 (only some listed)
• Rescue and Recovery™
• Password Manager

Preloaded applications†4 (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
• 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
• RapidBoot HDD Accelerator
• Symantec™ VIP
• Windows Live™ Essentials
• Corel® WinDVD® (DVD:RW)
• Corel Burn.Now™ Lenovo Edition (DVD:RW)
• Corel® DVD MovieFactory® Lenovo Edition (DVD:RW)

See footnotes for more detailed information
© Lenovo (NZ-4) 2012
## ThinkPad T430 2349 (Optimus) - Onsite (Windows 8)

<table>
<thead>
<tr>
<th>Type-model</th>
<th>Processor</th>
<th>Memory</th>
<th>Wide-screen display</th>
<th>Camera</th>
<th>Disk SATA GB</th>
<th>rpm</th>
<th>Backlit keyboard</th>
<th>PCIe Mini Card</th>
<th>PCIe Mini Card WWAN/mSATA</th>
<th>Finger print reader</th>
<th>Blue-tooth cells</th>
<th>Intel Technology</th>
<th>Preload</th>
<th>Ann Date (m/y/y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2349-LUU</td>
<td>i7-3520M</td>
<td>4GBx1</td>
<td>14.0&quot; HD+</td>
<td>720p</td>
<td>180G SSD</td>
<td></td>
<td>Backlit</td>
<td>Intel 6205™</td>
<td>WWAN upg</td>
<td>Finger</td>
<td>BT 9</td>
<td>vPro</td>
<td>Win7 Pro64</td>
<td>12/12</td>
</tr>
</tbody>
</table>

**Positioning**
- Processor: (**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 max / 7-3C:12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
- *System automatically clocks down for processors with 1333MHz DDR3 memory controller*

**Optical**
- DVD burner, 12.7mm Ultraday Enhanced, removable
- *One bay for removable devices, Ultraday Slim-compatible, 12.7mm 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™**
- *Removable, upgradeable, supports the second disk, Shock Mounted Hard Drive*

**Battery**
- **9-cell plus 9-cell Slice battery (94Whr, 0A36304):** up to 9.4 hr
- **6-cell (57Whr):** Lithium Ion 6-cell or 9-cell, supports optional Slice battery, **HW Authentication**

**Volume controls**
- **Volume up, down, mute buttons** / dual array mic, mic mute button, combo audio/mic jack

**Graphics**
- **NVIDIA® Optimus™** technology, auto-switch between discrete and integrated graphics, **Intel HD Graphics 4000** in processor, and **NVIDIA NVS™ 5400M, PCI Express x16, 1GB memory**, supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays;

**6-channel surround sound** / **20-watt total output**
- **Speakers**: **Stereo speakers**, **1W x 2 / volume up, down, mute buttons**
- **Microphone**: **Dual microphone**, **1W x 2 / supports three independent displays; supports external analog monitor via VGA DB-15 and digital monitor via Mini DisplayPort; supports three independent displays;**

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

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

**Pointing device**
- **Pointing device, “Press-to-Select,” Internet Scroll Bar13, magnifying glass**

**Display**
- **14.0" (355mm) HD (1366x768) color, anti-glare, LED backlight**, 200 nits, 16.9 aspect ratio, 300:1 contrast ratio
- **14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight**, 250 nits, 16.9 aspect ratio, 300:1 contrast ratio

**Dimensions**
- **14.0W (WxDxH):** 13.4" x 9.13" x 1.17--1.18", 340.5mm x 232.0mm x 29.8--29.9mm
- **Volume:** 14.0" (VGA)

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

**Paint**
- **UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch**
- **Illuminates the keyboard to improve visibility in low-light conditions**

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

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

**Preloaded applications**
- Windows 7 models:
  - Lenovo Message Center Plus
  - ThinkVantage Product Recovery
  - Access Connections™
  - ThinkVantage Power Manager
  - Lenovo SimpleTap
  - Corel® WinDVD® (DVD: RW)
  - Corel® MovieFactory™ Lenovo Edition (DVD: RW)

- Windows 8 models:
  - Lenovo Support
  - Lenovo Companion
  - Lenovo QuickLaunch
  - 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)
  - Skype™

Supports ThinkVantage™ technologies
- 90-watt AC adapter
- ThinkPad Roll Cage (one-piece magnesium frame)
- EPEAT™ Gold rating
- ENERGY STAR® 5.0-compliant
- GREENGUARD® certified RoHS-compliant
- International Warranty Service
- 24 hour 7 days a week toll-free support during the warranty period

*For compatible accessories, please go to O-T430 sheet;* 
*For Lenovo service warranty upgrades, please go to OP-TA sheet*
## ThinkPad T430i 2342 (TopSeller)

### Preloaded operating system20
- 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 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
- RapidBoot HDD Accelerator
- Symantec™ VIP
- Windows Live™ Essentials
- Corel® WinDVD® (DVD+RW)
- Corel® Burn.Now (DVD±RW)
- Corel® DVD MovieFactory™ Lenovo Edition (DVD±RW)

### Support
- Supports ThinkVantage® technologies

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### Type-model | Processor | Memory | Wide-screen display | Camera | Disk | Backlit keyboard | PCle Mini Card | PCle Mini Card | Finger print reader | Battery cells | Intel AMT | Intel vPro | Preload | Ann Date
|-----------|----------|-------|---------------------|-------|------|-----------------|--------------|--------------|-----------------|--------------|----------|----------|---------|---------
| 2342-2ZU  | i3-2370M | 4GBx1 | 14.0" HD            | 720p  | 500G | None            | Intel 2200   | WWAN upg     | None            | 6            | None     | None     | Pro 64  | 06/12   
| 2342-2YU  | i3-2370M | 4GBx1 | 14.0" HD            | 720p  | 320G | None            | Intel 2200   | WWAN upg     | None            | 6            | None     | None     | Pro 64  | 06/12   

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**Positioning**
- Processor: Intel® Core™ i3-2370M processor (2 cores, 2.40GHz, 3MB cache), Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), HT technology

**Memory**
- 16GB max7 / PC3-12800 1600MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets

**Optical**
- UltraBay Enhanced, removable
- One bay for removable devices, UltraBay Slim-compatible, 12.7mm 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™

**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

**Graphics**
- Intel HD Graphics 3000 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); 1920x1200@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 Bar13, magnifying glass
- UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling, multi-touch
- ThinkLight™ illuminates the keyboard to improve visibility in low-light conditions

**Dimensions**
- 14.0W" (WxDxH): 13.4" x 9.13" x 1.17–1.18"; 340.5mm x 232.0mm x 29.8–29.9mm
- 6-cell from 4.77 lb (2.17kg); 9-cell from 5.13 lb (2.33kg)

**Battery - type**
- Lithium Ion 6-cell or 9-cell, supports optional Slice battery as 2nd battery, HW Authentication
- 6-cell (57Whr): up to 15.2 hr; 9-cell (94Whr): up to 21.2 hr; 9-cell plus 9-cell Slice battery (94Whr, 0A36304): up to 32.5 hr

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

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

**PCle WLAN6**
- 11b/g/n, PCle Half Mini Card, Intel Centrino® Wireless-N 2200, 2x2
- Wireless WAN upgradable

**Carrier**
- None

**Modern**
- None

**IEEE 1394**
- None

**Bluetooth™**
- None

**Ethernet**
- Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCle x1
- None

**Audio support**
- HD Audio, Realtek® ALC3202 codec, Dolby® Advanced Audio™ v2 / 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

See footnotes for more detailed information © Lenovo (N24i-1) February 2013
ThinkPad T430 Accessories

Memory
2GB PC3-12800 DDR3 SODIMM 0A65722
4GB PC3-12800 DDR3 SODIMM 0A65723
8GB PC3-12800 DDR3 SODIMM 0A65724

Ultrabay Enhanced 12.7mm
Serial ATA Hard Drive 12.7mm Bay Adapter III 0A65623
Burner UltraBay Enhanced Drive III 0A65625

Storage and removable storage
ThinkPad 16GB mSATA Solid State Cache Drive 0B47309
500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD
500GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD41 0A66322
320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD41 0A66365
320GB 7200rpm SATA 3.0Gb/s 7mm 4K HDD41 0A66365
Self Encrypting (SED) OPAL Capable HDD41 0A66366
128GB SATA 6.0Gb/s 7mm Solid State Drive41 0A66269
180GB SATA 6.0Gb/s 7mm Solid State Drive41 0A66360
256GB 2.5" SATA 6.0Gb/s OPAL-capable SSD41 0A66260

Lenovo USB Smartcard Keyboard 51J0155

Ultraslim Plus Wireless Keyboard and Mouse 0A34032
TrackPoint Cap Collection 73P2698

ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W 43R4493
ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W 43R4493
ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W 43R4493
ThinkPad Mini Dock Series 3 w/ USB 3.0 - 90W 43R4493

ThinkPad Gobi Wireless WAN (Mini PCI Express) 41R4493

ThinkPad Battery 28+ (9-cell, slice)43 0A36304
ThinkPad Battery 28+ (9-cell, slice)43 0A36304
43 To be used along with system battery for all-day computing; (not supported when using Series 3 Port Replicator or Docks).

ThinkPad External Battery Charger44 40Y7625
44 Requires the ThinkPad 90W AC Adapter 40Y7659 or the adapter provided with the system.

More information at www.lenovo.com/alldaycomputing

ThinkPad 65W AC Adapter45 40Y7966
45 Only compatible with the integrated graphics models.

ThinkPad 90W AC Adapter 40Y7659

90W Ultraslim AC/DC Combo Adapter 41R4493

More info at www.lenovo.com/support/poweradapters

Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493

ThinkPad 90W AC Adapter

Options Compatibility Matrix (OCM) and accessory brochures

www.lenovo.com/accessories

Cable Lock 73P2582

Lenovo Optical Mouse (USB) 06P4069

Lenovo ScrollPoint

Modem
USB 2.0 Lenovo Modem 43R1814

Security
3M 14.0W Privacy Filter from Lenovo 0A61769
Kensington MicroSaver Cable Lock 73P2582
Kensington Travel Lock Cable 41K1620
Lenovo Security Cable Lock 57Y4303
Lenovo Security Cable Lock 57Y4303

USB Gemplus GemPC Smart Card Reader 41N3040

Batteries
ThinkPad Battery 70+ (6-cell) 0A36302
ThinkPad Battery 70+ (9-cell) 0A36303
ThinkPad Battery 28+ (9-cell, slice)43 0A36304

For more information on accessories:

www.lenovo.com/accessories

Purchase Lenovo accessories

www.lenovo.com/support/accessories

Product specifications on Lenovo Support

www.lenovo.com/accessoriesguide

Option Compatibility Matrix (OCM) and accessory brochures

www.lenovoquickpick.com

An Options Compatibility Configurator for Lenovo systems

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(O-T430) June 2012