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| Type-model | Processor | Memory | Wide-screen display | Camera | Disk SATA GB[8] | rpm | PCIe Mini Card WLAN | PCIe Mini Card WWAN /mSATA | Carrier | Finger print reader | Blue-tooth | Bat-tery cells | Preload |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5038-2NU | i7-2617M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | Intel 1000 | None | None | Finger | Blue | 8 | Pro 64 |
| 5038-2MU | i7-2617M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | Intel 1000 | None | None | Finger | Blue | 8 | Prem 64 |
| 5038-2LU | i5-2537M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | TP 11b/g/n | None | None | Finger | Blue | 8 | Prem 64 |
| 5038-2KU | i5-2537M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | Intel 1000 | None | None | Finger | Blue | 8 | Pro 64 |
| 5038-4DU | i3-2357M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | TP 11b/g/n | None | None | Finger | | 8 | Prem 64 |
| 5038-4EU | i3-2357M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | TP 11b/g/n | None | None | Finger | | 8 | Pro 64 |
| 5038-4MU | i5-2467M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | Intel 1000 | None | None | Finger | Blue | 8 | Pro 64 |
| 5038-55U | i5-2467M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | Intel 1000 | None | None | Finger | Blue | 8 | Prem 64 |
| 5038-56U | i5-2467M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | Intel 1000 | None | None | Finger | Blue | 8 | Pro 64 |
| 5038-57U | i3-2367M | 4GBx1 | 12.5" HD | 720p | 320G | 7200 | TP 11b/g/n | None | None | Finger | | 8 | Pro 64 |
| 5038-6KU | i5-2467M | 4GBx1 | 12.5" HD | 720p | 500G | 5400 | Intel 1000 | None | None | Finger | Blue | 8 | Pro 64 |

- *Small and medium business (SMB) model(s), part of the US TopSeller™ Program*
- *Microsoft® Office 2010 Product Key Ready (O10PKR)*

| | |
|---|---|
| Positioning | *Elegant design with quality, reliability, and portability for SMB customers; one spindle* |
| Processor | **Intel® Core™ i3-2357M processor (dual-core, 1.30GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Hyper-Threading technology<br>**Intel Core i3-2367M processor (dual-core, 1.40GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Hyper-Threading technology<br>**Intel Core i5-2467M processor (dual-core, 1.60GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.30GHz), HT technology<br>**Intel Core i5-2537M processor (dual-core, 1.40GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.30GHz), HT technology<br>**Intel Core i7-2617M processor (dual-core, 1.50GHz, 4MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.60GHz), HT technology |
| Memory | 4GB max[7] / PC3-10600 1333MHz DDR3, non-parity, one 204-pin SO-DIMM socket |
| Optical | None |
| SATA disk | *Some:* Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high<br>*Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™<br>*All:* removable, upgradable, Shock Mounted Hard Drive |
| mSATA | None |
| Widescreen display | **12.5"** (317.5mm) **HD (1366x768) color**, anti-glare display with glossy infinity glass, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio |
| Camera | HD720p resolution, wide view angle, low light sensitive, fixed focus |
| Graphics | **Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; *Max external resolution:* 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI port)@60Hz |
| Keyboard | 6-row, spill-resistant, multimedia Fn keys |
| TrackPoint® | TrackPoint pointing device, Internet Scroll Bar[13] |
| Touch pad | UltraNav™, buttonless touchpad below keyboard, Tap Zones, scrolling regions, multi-touch |
| ThinkLight™ | Illuminates the keyboard to improve visibility in low-light conditions |
| Dimensions[3] | *12.5W" (WxDxH):* 12.32" x 8.41" x 0.86"; 313mm x 213.5mm x 21.9mm |
| Weight[2] | starting at 3.23 lb (1.46kg) |
| Case color | Moss Black soft touch finish, authentic metal accents |
| Case material | Magnesium/Aluminum + PPS |
| Battery - type[37] | Integrated Lithium Ion 8-cell, 1000 cycle battery |
| Battery - life[10] | *8-cell (40.7Whr):* up to 6.0 hr |
| Chipset | **Mobile Intel HM65 Express Chipset** |
| ExpressCard/34 | None |
| Multicard Reader | 4-in-1 reader (MMC, SD, SDHC, SDXC) |
| Ports | Two USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45) |
| PCIe Mini Card | Two PCI Express Mini Card slots |
| WLAN[4] | *Some:* 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1<br>*Some:* 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 |
| WWAN | None |
| Modem | None |
| Bluetooth™ | *Some:* Bluetooth 3.0 wireless |
| Ethernet | Realtek® RTL8111E Gigabit Network Connection |
| Intel AMT | None |
| Audio support | High Definition (HD) Audio, Conexant 20671 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / mono digital microphone, combo audio/mic jack |
| Security | Power-on password, hard disk password, supervisor password, security keyhole |
| Security chip | None |
| Fingerprint reader | UPEK Fingerprint reader on palm rest, swipe sensor |
| Limited warranty[12] | **1-year** - depot repair service / service upgrades[22] available |

**Preloaded operating system**[20]
- *Some:* Genuine Windows® 7 Home Premium 64
- *Some:* Genuine Windows 7 Professional 64

**Ready to install applications**[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

**Preloaded applications**[14] (only some listed)
- Norton™ Internet Security 2011 (30 days of virus definitions)
- Adobe® Reader®
- Skype™ for Windows
- Windows Live™ Essentials
- Microsoft Office 2010 preloaded; purchase product key to activate
- Adobe Acrobat® X Standard (bundled with Microsoft Office)

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12]

For compatible accessories, please go to O-E220-S sheet;

For Lenovo[22] service upgrade options, please go to S-EDGE sheet

See footnotes for more detailed information
US model(s) announced December 20, 2011; previous model(s) on April 19, June 21, July 5 or October 4, 2011
US model(s) withdrawn effective May 2012

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# ThinkPad® Edge E220s Accessories

**Memory**
| | | | |
|---|---|---|---|
| 2GB PC3-10600 DDR3 L-H SODIMM | 55Y3710 | *ann* | *03/02/10* |
| 2GB PC3-10600 DDR3 L-H SODIMM (25Pack) | 57Y4416 | *ann* | *03/02/10* |
| 4GB PC3-10600 DDR3 L-H SODIMM | 55Y3711 | *ann* | *03/02/10* |

**Storage and removable storage**
| | | | |
|---|---|---|---|
| USB 2.0 Portable 320GB Hard Disk | 45K1689 | *ann* | *03/17/09* |
| USB 2.0 Portable 500GB Hard Disk | 45K1690 | *ann* | *05/26/09* |
| USB 2.0 Portable Secure 320GB Hard Disk | 43R2019 | *ann* | *11/18/08* |
| USB 3.0 Secure 500GB Hard Drive | 0A65619 | *ann* | *11/29/11* |
| USB 3.0 Secure 750GB Hard Drive | 0A65616 | *ann* | *11/29/11* |
| USB 3.0 Secure 1TB Hard Drive | 0A65621 | *ann* | *08/28/12* |
| Lenovo Slim USB Portable DVD Burner | 0A33988 | *ann* | *06/14/11* |

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

**Keyboard**
| | | | |
|---|---|---|---|
| TrackPoint Cap Collection | 73P2698 | *ann* | *12/16/03* |
| Ultraslim Plus Wireless Keyboard and Mouse[52] | 0A34032 | *ann* | *04/05/11* |
| USB Numeric Keypad | 33L3225 | *ann* | *05/01/00* |
| Preferred Pro USB Keyboard | 73P5220 | *ann* | *06/21/05* |
| Enhanced Performance USB Keyboard | 73P2620 | *ann* | *03/23/04* |
| Lenovo Mini Wireless Keyboard N5901[52] | 57Y6336 | | |

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

| | | | |
|---|---|---|---|
| ThinkPad USB Keyboard with TrackPoint | 55Y9003 | *ann* | *08/18/09* |
| Lenovo USB Fingerprint Keyboard | 73P4730 | *ann* | *02/22/05* |
| Lenovo USB Smartcard Keyboard | 51J0155 | *ann* | *03/24/09* |

**Mouse**
| | | | |
|---|---|---|---|
| ThinkPad Bluetooth Laser Mouse | 0A36407 | *ann* | *06/26/12* |
| Lenovo Optical Mouse (USB) | 06P4069 | *ann* | *05/21/03* |
| Lenovo Laser Mouse (USB) | 41U3074 | *ann* | *01/23/07* |
| ThinkPad USB Laser Mouse | 57Y4635 | *ann* | *12/15/09* |
| Lenovo ScrollPoint® Mouse (USB, Optical) | 31P7405 | *ann* | *08/27/02* |
| ThinkPad Travel Mouse (USB, Optical) | 31P7410 | *ann* | *06/04/02* |
| Lenovo Wireless Laser Mouse[52] | 0A36188 | *ann* | *12/20/11* |

[52] Wireless via 2.4GHz technology using a micro-size USB receiver.

**Security**
| | | | |
|---|---|---|---|
| Kensington® MicroSaver® Cable Lock | 73P2582 | *ann* | *12/29/03* |
| Kensington Twin Head Cable Lock | 45K1620 | *ann* | *09/30/08* |
| Lenovo Security Cable Lock | 57Y4303 | *ann* | *08/24/10* |
| USB Gemplus GemPC Smart Card Reader | 41N3040 | *ann* | *02/21/06* |

**Multimedia**
| | | | |
|---|---|---|---|
| ThinkPad In-Ear Headphones with mic | 57Y4488 | *ann* | *01/07/10* |
| Lenovo Mini Speakers M220 | 55Y2033 | *ann* | *01/07/10* |

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

**Power adapters**
| | | | |
|---|---|---|---|
| ThinkPad 65W AC Adapter[45] | 40Y7696 | *ann* | *01/05/06* |

[45] Only compatible with the integrated graphics models.

| | | | |
|---|---|---|---|
| ThinkPad 90W AC Adapter | 40Y7659 | *ann* | *09/20/05* |
| 90W Ultraslim AC/DC Combo Adapter | 41R4493 | *ann* | *09/22/09* |

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

*Charging tips for 90W Ultraslim AC/DC Combo Adapter 41R4493*
| | | | |
|---|---|---|---|
| •iPod and iPhone Charge Tip (L10a) | 41R4481 | *ann* | *12/18/07* |
| •Generic Micro USB charge tip (L18) | 41R4490 | *ann* | *01/06/09* |

More information at **www.lenovopowertips.com**

**Carrying Cases**
*Up to 13.3" widescreen models:*
| | | | |
|---|---|---|---|
| ThinkPad Ultraportable Case | 41U5062 | *ann* | *05/13/08* |

*Up to 15.6" widescreen models:*
| | | | |
|---|---|---|---|
| Lenovo Messenger Max | 41U5253 | *ann* | *05/01/07* |
| Lenovo Performance BackPack | 41U5254 | *ann* | *05/01/07* |
| ThinkPad Business Topload Case | 43R2476 | *ann* | *05/13/08* |
| ThinkPad Business Backpack | 43R2482 | *ann* | *05/13/08* |
| ThinkPad Deluxe Expander Case | 43R2478 | *ann* | *05/13/08* |
| ThinkPad Executive Leather Case | 43R2480 | *ann* | *05/13/08* |
| Lenovo Sport Backpack - Red | 0A33896 | *ann* | *02/28/12* |
| Lenovo Sport Slimcase - Red | 0A33897 | *ann* | *02/28/12* |
| Lenovo Sport Messenger - Red | 0A33898 | *ann* | *02/28/12* |

More information at **www.lenovo.com/support/cases**

**Monitors**
| | | | |
|---|---|---|---|
| ThinkVision® L1711p 17" (VGA, DVI-D) | 5047HB2 | *ann* | *10/20/09* |
| ThinkVision L1900p 19" (VGA, DVI-D) | 4431HE1 | *ann* | *11/11/08* |
| ThinkVision LT1952p Wide 19" (VGA, DP, DVI-D)[69] | 2448MB6 | *ann* | *09/13/11* |
| ThinkVision L2250p Wide 22" (VGA, DVI-D) | 2572HB6 | *ann* | *10/20/09* |
| ThinkVision L2251x Wide 22" (VGA, DP) | 2578HB6 | *ann* | *10/20/09* |
| ThinkVision LT2252p Wide 22" (VGA, DP, DVI-D)[69] | 2572MB6 | *ann* | *09/13/11* |
| ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D)[69] | 4420MB2 | *ann* | *09/13/11* |

[69] DisplayPort cable is not included.

| | | | |
|---|---|---|---|
| ThinkVision LT1421 Wide 14" Mobile Monitor with Protective Screen Cover (USB 2.0) | 1452DS6 | *ann* | *08/16/11* |
| Lenovo LS2421p Wide 23.6" (VGA, HDMI) | 4015LS1 | *ann* | *08/02/11* |

More information at **www.lenovo.com/support/monitors**

**Monitor Accessories[46]**
| | | | |
|---|---|---|---|
| Lenovo USB Soundbar | 0A36190 | *ann* | *05/01/12* |
| Lenovo HDMI to HDMI Monitor Cable | 0B47070 | *ann* | *05/22/12* |
| Lenovo HDMI to VGA Monitor Cable | 0B47069 | *ann* | *06/26/12* |
| Lenovo USB-to-DVI Monitor Adapter | 45K5296 | *ann* | *05/12/09* |
| Kensington MicroSaver Cable Lock | 73P2582 | *ann* | *12/29/03* |
| Kensington Twin Head Cable Lock | 45K1620 | *ann* | *09/30/08* |
| Lenovo Security Cable Lock | 57Y4303 | *ann* | *08/24/10* |
| Lenovo Easy Reach Monitor Stand | 55Y9258 | *ann* | *09/22/09* |

[46] Compatible on selected Lenovo and ThinkVision monitors.

More information at **www.lenovo.com/support/monitoraccessories**

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