

ThinkPad®



Lenovo® ThinkPad Edge E420s



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ThinkVision® LT1421 with ThinkPad Edge E420s



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# ThinkPad® Edge E420s 4401 (TopSeller) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB <sup>5</sup> rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Finger print reader	Blue-tooth	Battery cells	Preload
4401-27U	i5-2410M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Prem 64
4401-28U	i5-2410M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Pro 64
4401-29U	i3-2310M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		4	Pro 64
4401-5EU	i5-2430M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Prem 64
4401-5FU	i5-2430M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Pro 64
4401-5GU	i3-2330M	4GBx1	14.0" HD	720p	320G 7200	TP 11b/g/n	None	None	Finger		4	Pro 64
4401-93U	i5-2430M	4GBx1	14.0" HD	720p	500G 5400	Intel 1000	None	None	Finger	Blue	4	Pro 64
4401-7MU	i5-2450M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Pro 64
4401-7LU	i5-2450M	4GBx1	14.0" HD	720p	320G 7200	Intel 1000	None	None	Finger	Blue	4	Prem 64

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

Positioning Processor	<p><i>Elegant design with quality, reliability, and portability for SMB customers; two spindles</i></p> <p><b>Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), HT technology</p> <p><b>Intel Core i3-2330M processor (dual-core, 2.20GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), HT technology</p> <p><b>Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology</p> <p><b>Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology</p> <p><b>Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache),</b> DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology</p>								<p><b>Preloaded operating system<sup>20</sup></b></p> <ul style="list-style-type: none"> <li>- Some: Genuine Windows® 7 Home Premium 64</li> <li>- Some: Genuine Windows 7 Professional 64</li> </ul> <p><b>Ready to install applications<sup>14</sup> (only some listed)</b></p> <ul style="list-style-type: none"> <li>• Rescue and Recovery™</li> <li>• Access Connections™</li> <li>• Fingerprint Software (fingerprint models)</li> <li>• Password Manager (fingerprint models)</li> <li>• ThinkVantage System Update</li> <li>• ThinkVantage Power Manager</li> <li>• ThinkVantage Toolbox</li> </ul> <p><b>Preloaded applications<sup>14</sup> (only some listed)</b></p> <ul style="list-style-type: none"> <li>• Norton™ Internet Security 2011 (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Skype™ for Windows</li> <li>• Windows Live™ Essentials</li> <li>• Microsoft Office 2010 preloaded; purchase product key to activate</li> <li>• Adobe Acrobat® X Standard (bundled with Microsoft Office)</li> <li>• Corel® WinDVD® (DVD±RW)</li> <li>• Corel Burn.Now™ Lenovo Edition (DVD±RW)</li> <li>• Corel DVD MovieFactory® Lenovo Edition (DVD±RW)</li> </ul>			
Memory	8GB max <sup>7</sup> / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets											
Optical SATA disk	<p>DVD burner, 9.5mm high, fixed, not removable, slot-in</p> <p>Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high</p> <p>Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™</p> <p>All: removable, upgradable, Shock Mounted Hard Drive</p>											
mSATA	None											
Widescreen display	<b>14.0"</b> (355mm) <b>HD (1366x768) color</b> , 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	<p><b>Intel HD Graphics 3000</b> 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;</p> <p>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</p>											
Keyboard	6-row, spill-resistant, multimedia Fn keys											
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar <sup>13</sup>											
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 <sup>3</sup>	<b>14.0W"</b> (WxDxH): 13.74" x 9.29" x 0.91-1.23"; 349mm x 236mm x 23.1-31.2mm											
Weight <sup>2</sup>	starting at 4.14 lb (1.88kg)											
Case color	Moss Black soft touch finish, authentic metal accents											
Case material	Magnesium/Aluminum + PPS											
Battery - type <sup>37</sup>	Integrated Lithium Ion 4-cell, 1000 cycle battery											
Battery - life <sup>10</sup>	<b>4-cell (48.8Whr):</b> up to 7.0 hr											
Chipset	<b>Mobile Intel HM65 Express Chipset</b>											
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 WLAN <sup>4</sup>	Two PCI Express Mini Card slots Some: 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 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 / 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 <sup>12</sup>	<b>1-year</b> - depot repair service / service upgrades <sup>22</sup> available								<p>Supports ThinkVantage® technologies</p> <p>65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service<sup>17</sup> 24 hour x 7 day<sup>18</sup> toll-free support during the warranty period<sup>12</sup></p> <p>For compatible accessories, please go to O-E420-S sheet;</p> <p>For Lenovo<sup>22</sup> service upgrade options, please go to S-EDGE sheet</p>			

See footnotes for more detailed information

US model(s) announced January 17, 2012; previous model(s) on March 22,

October 4 or December 20, 2011

US model(s) withdrawn effective May 2012

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# ThinkPad® Edge E420s Accessories

Personal Systems Reference (PSREF)

## 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 <sup>52</sup>	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
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
Lenovo Mini Wireless Keyboard N5901 <sup>52</sup>	57Y6336	

<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.

## 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 <sup>52</sup>	0A36188	ann 12/20/11

<sup>52</sup> 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
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## Power adapters

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](http://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](http://www.lenovopowertips.com)

## Carrying Cases

Up to 14" widescreen models:

ThinkPad 14W Case Sleeve	57Y4294	ann 03/16/10
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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
Lenovo Sport Backpack - Blue	0B47298	ann 08/28/12
Lenovo Sport Slimcase - Blue	0B47300	ann 08/28/12
Lenovo Sport Messenger - Blue	0B47299	ann 08/28/12
Lenovo Sport Backpack - Grey	0B47301	ann 08/28/12
Lenovo Sport Slimcase - Grey	0B47303	ann 08/28/12
Lenovo Sport Messenger - Grey	0B47302	ann 08/28/12

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

## 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) <sup>69</sup>	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) <sup>69</sup>	2572MB6	ann 09/13/11
ThinkVision LT2452p Wide 24" (VGA, DP, DVI-D) <sup>69</sup>	4420MB2	ann 09/13/11

<sup>69</sup> 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](http://www.lenovo.com/support/monitors)

## Monitor Accessories<sup>46</sup>

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

<sup>46</sup> Compatible on selected Lenovo and ThinkVision monitors.

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

For more information on accessories:

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

Purchase Lenovo accessories

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

Product specifications on Lenovo Support

[www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

Option Compatibility Matrix (OCM) and accessory brochures

[www.lenovoquickpick.com](http://www.lenovoquickpick.com)

An Options Compatibility Configurator for Lenovo systems