



# *Personal Systems Reference Lenovo® IdeaPad™ Netbooks and Notebooks*

*November 2009 - Version 366*



Lenovo IdeaPad S10e

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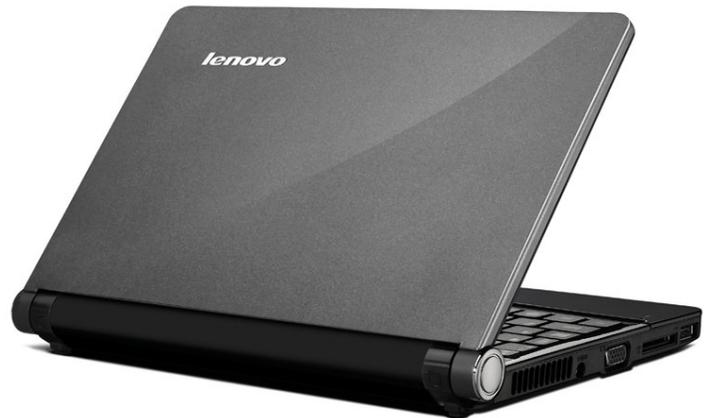
Lenovo IdeaPad S9e



Lenovo IdeaPad S9e



Lenovo IdeaPad S10e



Lenovo IdeaPad S10e



Lenovo IdeaPad S10e



Lenovo IdeaPad S10e

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	Disk	Mini PCIe 802.11 wireless	Color	Bluetooth	Battery cells	Quick Start	Preload	Avail date
4187-RVU	Atom N270	1.60	1GB	10.1" WSVGA	Cam	GMA	160GB <sup>2</sup>	11b/g	Black	Bluetooth	6-cell	Quick	XP Home	May 09
4187-RWU	Atom N270	1.60	1GB	10.1" WSVGA	Cam	GMA	160GB	11b/g	Black		6-cell	Quick	XP Home	May 09
4187-RXU	Atom N270	1.60	1GB	10.1" WSVGA	Cam	GMA	160GB	11b/g	Black		3-cell	Quick	XP Home	May 09

- **Lenovo's netbook: smaller and lighter than a notebook**
- **10.1" widescreen display with LED backlight**
- **Super-slim (starting at 0.9 inches thin), ultra-light (starting at 2.43 pounds)**
- **ExpressCard slot for WWAN card**
- **Touch pad supports multi-touch function (pinch, expansion, chiral motion)**
- **Integrated camera**
- **(Select models) Lenovo® Quick Start: Utility for quick access to Web, music, photos, chat, and Skype® without booting Windows**

Positioning	<i>Netbook; consumer markets</i>										<b>Preloaded operating system<sup>20</sup></b>			
Processor	Intel® Atom™ Processor N270 with single-core, Hyper-Threading technology, 533MHz system bus, and 512KB L2 cache										- Genuine Windows® XP Home Edition			
Memory	1GB std / 2GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, single-channel, one 200-pin SO-DIMM socket; * Windows XP Home models can only be shipped with maximum of 1GB in memory <i>Non-italics:</i> standard memory 1GB in socket; no socket available										<b>Preloaded applications<sup>14</sup></b>			
External combo SATA disk	None 160GB (5400 rpm) HDD / SATA 1.5Gb/s, 9.5mm high, 2.5" wide, not removable										• ThinkVantage® System Update			
Widescreen display	10.1" (256.5mm) WSVGA (1024x576) TFT color, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio										• Norton Internet Security™ (90 days of virus definitions)			
Camera	Camera on top of screen, 1.3-megapixel, fixed focus										• Adobe Flash® Player			
Graphics	Intel Graphics Media Accelerator 950 (GMA 950), in 945GSE										• Windows Live™ Toolbar			
Keyboard	6-row, 80-key, 85% size, Fn keys, Novo key, wireless on/off button										• Adobe® Reader® (HDD models only)			
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch										• PC-Doctor™ (diagnostics) (HDD models only)			
Dimensions <sup>3</sup>	3-cell: (WxDxH): 9.8" x 7.2" x 0.9-1.1"; 250mm x 183mm x 22-27.5mm 6-cell: (WxDxH): 9.8" x 7.7" x 0.9-1.4"; 250mm x 196mm x 22-36mm													
Weight <sup>2</sup>	3-cell: starting at 2.65 lb (1.2 kg) 6-cell: starting at 3.09 lb (1.4 kg)													
Case color	Top: dark gray or black Bottom: dark gray or black													
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic													
Battery - type	Lithium Ion, 3-cell 2600 mAh or 6-cell 4800 mAh													
Battery - life <sup>10</sup>	3-cell: up to 2.5 hr; 6-cell: up to 5.0 hr													
Chipset	Mobile Intel 945GSE Express Chipset (Graphics Memory Controller Hub), ICH7M I/O Controller Hub (SATA 1.5Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC)													
ExpressCard/34	One slot (ExpressCard/34)													
Multicard reader	4-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card)										40-watt AC adapter			
Ports	Two USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)										RoHS-compliant			
TV tuner	None										<b>Limited Warranty<sup>12</sup></b>			
Mini PCI Express	One Mini PCI Express slot													
11b/g <sup>28</sup>	11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312													
Bluetooth™	Some: Bluetooth 2.1 wireless, LED indicator													
Modem	None													
Ethernet	10/100 ethernet, Broadcom® BCM5906, PCI 2.3													
Audio support	High Definition (HD) Audio, RealTek® ALC269 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm)													
Security	Power-on password, supervisor password, security keyhole													
Fingerprint reader	None										via 800-426-7378			

See footnotes for important warranty information  
US models announced May 19, 2009

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(KRL1-7) June 2009

**Partial list of accessories supported on:  
IdeaPad S9e and S10e****Memory**1 GB PC2-5300 DDR2 SODIMM 40Y7734 *ann 01/05/06***Storage and removable storage**

USB 2.0 Essential Memory Key 4GB 45J7904 *ann 06/24/08*  
 USB 2.0 Essential Memory Key 8GB 45J7905 *ann 07/15/08*  
 USB 2.0 Super Multi-Burner Drive 41N5565 *ann 01/23/07*  
 USB 2.0 Portable 500GB Hard Disk 45K1690 *ann 05/26/09*

**Expansion**USB Port Replicator with Digital Video 45K1610 *ann 07/28/09***Mouse**

Lenovo Wireless Laser Mouse - Black<sup>52</sup> 45K1696 *ann 11/25/08*  
 Lenovo Wireless Laser Mouse - Red/Black<sup>52</sup> 51J0198 *ann 11/25/08*  
<sup>52</sup> Wireless via 2.4GHz technology using a micro-size USB receiver.  
 ThinkPad® Bluetooth Laser Mouse<sup>45</sup> 41U5008 *ann 01/22/08*  
<sup>45</sup> Requires Bluetooth enabled IdeaPad systems

**Security**

Kensington® MicroSaver® Cable Lock 73P2582 *ann 12/29/03*  
 Kensington Twin Head Cable Lock 45K1620 *ann 09/30/08*

**Multimedia**

USB 2.0 Lenovo Multimedia Headset 40Y8518 *ann 06/27/06*  
 USB 2.0 Lenovo Webcam 40Y8519 *ann 08/29/06*

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

IdeaPad S Series Li-Ion Battery 3-cell (blk) 45K1274 *ann 11/25/08*  
 IdeaPad S Series Li-Ion Battery 6-cell (blk) 45K1275 *ann 11/25/08*  
 IdeaPad S Series Li-Ion Battery 3-cell (wht) 51J0398 *ann 12/16/08*  
 IdeaPad S Series Li-Ion Battery 6-cell (wht) 51J0399 *ann 12/16/08*  
 IdeaPad S Series 40W AC Adapter 41R4441 *ann 11/25/08*

**Carrying Cases**

IdeaPad S9e/S10e Case Sleeve 45K1609 *ann 11/25/08*  
 Lenovo Carrying Case - Messenger Max 41U5253 *ann 05/01/07*  
 Lenovo Standard Case 45K1697 *ann 11/25/08*  
 Lenovo Standard Backpack 45K1698 *ann 11/25/08*

**Monitors**

Lenovo® D185 Wide 18.5" Monitor 6318HB1 *ann 01/27/09*  
 Lenovo L215 Wide 21.5" Monitor 6325HB1 *ann 01/27/09*  
 Lenovo L215p Wide 21.5" Monitor 6325HC1 *ann 01/27/09*  
 ThinkVision® L174 17" Monitor 9227AE1 *ann 04/15/08*  
 ThinkVision L1700p 17" Monitor 9417HE2 *ann 09/17/08*  
 ThinkVision L1711p 17" Monitor 5047HB2 *ann 10/20/09*  
 ThinkVision L1900p 19" Monitor 4431HE1 *ann 11/11/08*  
 ThinkVision L1940p Wide 19" Monitor 4424HB6 *ann 09/17/08*  
 ThinkVision L1951p Wide 19" Monitor 2448HB6 *ann 10/20/09*  
 ThinkVision L2240p Wide 22" Monitor 4422HB6 *ann 09/17/08*  
 ThinkVision L2250p Wide 22" Monitor 2572HB6 *ann 10/20/09*  
 ThinkVision L2251p Wide 22" Monitor 2572HD6 *ann 10/20/09*  
 ThinkVision L2251x Wide 22" Monitor 2578HB6 *ann 10/20/09*  
 ThinkVision L2440p Wide 24" Monitor 4420HB2 *ann 09/17/08*  
 ThinkVision L2440x Wide 24" Monitor 4421HB2 *ann 09/17/08*

**Monitor Accessories<sup>46</sup>**

ThinkVision USB Soundbar 40Y7616 *ann 08/23/05*  
 ThinkVision Soundbar 45K1263 *ann 09/16/08*  
 Kensington MicroSaver Cable Lock 73P2582 *ann 12/29/03*  
 Kensington Twin Head Cable Lock 45K1620 *ann 09/30/08*  
 Lenovo Easy Reach Monitor Stand 55Y9258 *ann 09/22/09*  
 Radial Arm 19K4464 *ann 05/05/00*

<sup>46</sup> Compatible on selected ThinkVision monitors.**Consumer monitors**

Lenovo L195 Wide 19" LCD Monitor 4418HC1 *ann 09/02/08*  
 Lenovo L222 Wide 22" LCD Monitor 4432HF1 *ann 09/02/08*

Other accessories at <http://www.lenovo.com/accessories>Accessories Guide pdf at <http://www.lenovo.com/accessoriesguide>

**Partial list of Lenovo® Care Services<sup>22</sup>  
for IdeaPad® S9e, S10e**

For more information see:

[http://www.lenovo.com/services\\_warranty/us/en/index.html](http://www.lenovo.com/services_warranty/us/en/index.html)**Lenovo Care service upgrade options****IdeaPad® S9e, S10e with Split warranty***Mail in = Mail In repair, ADP = Accidental Damage Protection,  
HDDR = Hard Drive Retention*

2-year Mail In warranty 9x5	55Y3556
3-year Mail In warranty 9x5	55Y3557
4-year Mail In warranty 9x5	55Y3558
1-year Mail In warranty 9x5 with ADP	55Y3559
2-year Mail In warranty 9x5 with ADP	55Y3560
3-year Mail In warranty 9x5 with ADP	55Y3561
4-year Mail In warranty 9x5 with ADP	55Y3562
1-year Mail In warranty 9x5 with HDDR	55Y3571
2-year Mail In warranty 9x5 with HDDR	55Y3572
3-year Mail In warranty 9x5 with HDDR	55Y3573
4-year Mail In warranty 9x5 with HDDR	55Y3574

*LOR = Lenovo Onsite Repair, ADP = Accidental Damage Protection,  
HDDR = Hard Drive Retention*

1-year LOR 9x5 Next Business Day	55Y3563
2-year LOR 9x5 Next Business Day	55Y3564
3-year LOR 9x5 Next Business Day	55Y3565
4-year LOR 9x5 Next Business Day	55Y3566
1-year LOR 9x5 Next Business Day with ADP	55Y3567
2-year LOR 9x5 Next Business Day with ADP	55Y3568
3-year LOR 9x5 Next Business Day with ADP	55Y3569
4-year LOR 9x5 Next Business Day with ADP	55Y3570
1-year LOR 9x5 Next Business Day with HDDR	55Y3599
2-year LOR 9x5 Next Business Day with HDDR	55Y3600
3-year LOR 9x5 Next Business Day with HDDR	55Y3601
4-year LOR 9x5 Next Business Day with HDDR	55Y3602

**ThinkPlus Secure Business****Lenovo Online Data Backup**

- Secure offsite data storage
- 256-bit Advanced Encryption System
- Data recovery or access in case of an unforeseen event
- Automatic, remote management
- Choose which business critical data to back up

1-year Lenovo Online Data Backup - 10GB	51J0787
1-year Lenovo Online Data Backup - 25GB	51J0795
1-year Lenovo Online Data Backup - 50GB	45K5849
1-year Lenovo Online Data Backup - Unlimited	45K5870

Note: Supported only on Microsoft® Windows® operating systems

ideapad



Lenovo IdeaPad S10  
Classic White



Lenovo IdeaPad S10  
Deep Blue



Lenovo IdeaPad S10  
Bold Black, Ruby Red,  
Deep Blue, Classic White, Pastel Pink



Lenovo IdeaPad S10  
Pastel Pink



Lenovo IdeaPad S10  
Ruby Red



Lenovo IdeaPad S10  
Ruby Red

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	Mini PCIe 802.11 wireless	Color	Blue-tooth	Battery	Preload	Avail date
4231-2BU	Atom N270	1.60	512MB	10.2" WSVGA	Cam	GMA	80GB <sup>8</sup>	11b/g <sup>11</sup>	Black	None	3-cell	XP Home	Aug 08
4231-3AU	Atom N270	1.60	512MB	10.2" WSVGA	Cam	GMA	80GB	11b/g	Black	None	3-cell	XP Home	Sep 08
4231-2CU	Atom N270	1.60	512MB	10.2" WSVGA	Cam	GMA	80GB	11b/g	White	None	3-cell	XP Home	Aug 08
4231-2DU	Atom N270	1.60	512MB	10.2" WSVGA	Cam	GMA	80GB	11b/g	Red	None	3-cell	XP Home	Aug 08
4231-36U	Atom N270	1.60	512MB	10.2" WSVGA	Cam	GMA	80GB	11b/g	Blue	None	3-cell	XP Home	Oct 08
4231-2AU	Atom N270	1.60	512MB	10.2" WSVGA	Cam	GMA	80GB	11b/g	Pink	None	3-cell	XP Home	Dec 08
4231-3CU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Black	None	3-cell	XP Home	Sep 08
4231-3DU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Black	None	3-cell	XP Home	Sep 08
4231-35U	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Black	None	3-cell	XP Home	Dec 08
4231-34U	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	White	None	3-cell	XP Home	Dec 08
4231-33U	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Red	None	3-cell	XP Home	Dec 08
4231-37U	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Blue	None	3-cell	XP Home	Oct 08
4231-32U	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Pink	None	3-cell	XP Home	Dec 08

- **Lenovo's netbook: smaller and lighter than a notebook**
- **10.2" widescreen, anti-glare display with LED backlight**
- **Super-slim (starts at 0.9 inches thin), ultra-light (weighs just over 2.43 pounds)**
- **Multiple color choices: black, white, red, blue, or pink (piano finish for red, blue, pink)**
- **Touch pad supports multi-touch function to enhance the experience of user control**
- **Integrated 1.3 megapixel camera**
- **OneKey™ Rescue System includes OneKey Recovery with press of recovery key**

Positioning	<i>Netbook; consumer markets</i>	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® XP Home Edition  <b>Preloaded applications<sup>14</sup></b> • Lenovo® OneKey Recovery • Norton Internet Security™ (90 days of virus definitions) • Adobe® Reader • Windows Live™ Toolbar • Lenovo Energy Management Software  Available at these retailers • lenovo.com • Fry's  <b>Limited Warranty<sup>12</sup></b> ⇨ 1-year parts and labor ⇨ Depot repair service <sup>19</sup> ⇨ Service upgrade options (in eligible locations): <sup>9</sup> • 1-year accidental damage protection via depot 43R8885 • 3-year Lenovo Onsite Repair <sup>13</sup> 9x5 Next Business Day 43R8883 • 3-year Lenovo Onsite Repair <sup>13</sup> 9x5 Next Business Day with accidental damage protection 43R8884 ⇨ 24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686
Processor	<b>Intel® Atom™ Processor N270</b> with single-core, Hyper-Threading technology, 533MHz system bus, and 512KB L2 cache	
Memory	<b>512MB</b> or <b>1GB</b> std / 1.5GB max <sup>7</sup> / <b>PC2-5300 667MHz DDR2</b> , non-parity, single-channel, one 200-pin SO-DIMM socket; <i>Italics:</i> standard memory 512MB soldered to systemboard, 512MB in socket; no sockets available; <i>Non-italics:</i> standard memory 512MB soldered to systemboard; one socket available	
Diskette drive	None	
External combo SATA disk	None <b>80GB</b> (5400 rpm) or <b>160GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, 2.5" platter, not removable	
Widescreen display	<b>10.2"</b> (259.1mm) <b>WSVGA (1024x600) TFT color</b> , anti-glare, <b>LED backlight</b> , 200 nits, 16:10 aspect ratio, 300:1 contrast ratio	
Camera	Camera on top of screen, 1.3-megapixel, fixed focus	
Graphics	<b>Intel Graphics Media Accelerator 950 (GMA 950)</b> , in 945GSE	
Keyboard	6-row, 80-key, 85% size, multimedia Fn keys, recovery key, wireless on/off button	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch	
Dimensions <sup>3</sup>	<i>(WxDxH):</i> 9.8" x 7.2" x 0.9-1.1"; 250mm x 183mm x 22-27.5mm	
Weight <sup>2</sup>	<i>3-cell:</i> starting at 2.43 lb (1.1 kg)	
Case color	<i>Top:</i> multiple color choices: black, white, red, blue, or pink (piano finish for red, blue, pink) <i>Bottom:</i> color matches top color	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion, <b>3-cell</b> 2600 mAh	
Battery - life <sup>10</sup>	<i>3-cell:</i> up to 3.0 hr	
Chipset	<b>Mobile Intel 945GSE Express Chipset</b> (Graphics Memory Controller Hub), ICH7M I/O Controller Hub (SATA 1.5Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC)	
ExpressCard/34	One slot (ExpressCard/34)	
Multicard reader	4-in-1 reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card)	
Ports	Two USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)	
TV tuner	None	
Mini PCI Express	One Mini PCI Express slot	
11b/g <sup>28</sup>	11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet, Broadcom® BCM5906, PCI 2.3	
Audio support	High Definition (HD) Audio, RealTek® ALC269 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm)	
Security	Power-on password, supervisor password, security keyhole,	
Fingerprint reader	None	

See footnotes for important warranty information

Ⓜ US models announced December 10, 2008; previous models on August 19, September 9, or October 7, 2008

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Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	Mini PCIe 802.11 wireless	Color	Blue-tooth	Battery	Preload	Avail date
4231-A8U	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB <sup>8</sup>	11b/g <sup>11</sup>	Black	None	3-cell	XP Home	Mar 09
4231-A9U	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	White	None	3-cell	XP Home	Mar 09
4231-AAU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Pink	None	3-cell	XP Home	Mar 09
4231-ABU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Red	None	3-cell	XP Home	Mar 09
4231-ACU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Blue	None	3-cell	XP Home	Mar 09
4231-ADU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Pink	None	6-cell	XP Home	Mar 09
4231-AEU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Red	None	6-cell	XP Home	Mar 09
4231-AFU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	White	None	6-cell	XP Home	Mar 09
4231-AGU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Black	None	6-cell	XP Home	Mar 09
4231-AJU	Atom N270	1.60	1GB	10.2" WSVGA	Cam	GMA	160GB	11b/g	Blue	None	6-cell	XP Home	Mar 09

- **Lenovo's netbook: smaller and lighter than a notebook**
- **10.2" widescreen, anti-glare display with LED backlight**
- **Super-slim (starts at 0.9 inches thin), ultra-light (weighs just over 2.43 pounds)**
- **Multiple color choices: black, white, red, blue, or pink (piano finish for red, blue, pink)**
- **Touch pad supports multi-touch function to enhance the experience of user control**
- **Integrated 1.3 megapixel camera and Lenovo's VeriFace™ face recognition software helps control access to your notebook by recognizing your face.**
- **OneKey™ Rescue System includes OneKey Recovery with press of recovery key**
- **Lenovo® Quick Start: Utility for quick access to Web, music, photos, chat, and Skype® without booting Windows**

Positioning	<i>Netbook; consumer markets</i>		<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® XP Home Edition  <b>Preloaded applications<sup>14</sup></b> • Lenovo® OneKey Recovery • Norton Internet Security™ (90 days of virus definitions) • Adobe® Reader • Windows Live™ Toolbar • Lenovo Energy Management Software • VeriFace™
Processor	<b>Intel® Atom™ Processor N270</b> with single-core, Hyper-Threading technology, 533MHz system bus, and 512KB L2 cache		
Memory	<b>1GB</b> std / 1GB max <sup>7</sup> / <b>PC2-5300 667MHz DDR2</b> , non-parity, single-channel, one 200-pin SO-DIMM socket; <i>Non-italics:</i> standard memory 1GB in socket; no socket available		
Diskette drive	None		
External combo	None		
SATA disk	<b>160GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, 2.5" platter, not removable		
Widescreen display	<b>10.2"</b> (259.1mm) <b>WSVGA (1024x600) TFT color</b> , anti-glare, <b>LED backlight</b> , 200 nits, 16:10 aspect ratio, 300:1 contrast ratio		
Camera	Camera on top of screen, 1.3-megapixel, fixed focus		
Graphics	<b>Intel Graphics Media Accelerator 950 (GMA 950)</b> , in 945GSE		
Keyboard	6-row, 80-key, 85% size, multimedia Fn keys, recovery key, wireless on/off button		
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch		
Dimensions <sup>3</sup>	<i>3-cell:</i> (WxDxH): 9.8" x 7.2" x 0.9-1.1"; 250mm x 183mm x 22-27.5mm <i>6-cell:</i> (WxDxH): 9.8" x 7.7" x 0.9-1.4"; 250mm x 196mm x 22-36mm		
Weight <sup>2</sup>	<i>3-cell:</i> starting at 2.43 lb (1.1 kg) <i>6-cell:</i> starting at 2.87 lb (1.3 kg)		
Case color	<i>Top:</i> multiple color choices: black, white, red, blue, or pink (piano finish for red, blue, pink) <i>Bottom:</i> color matches top color		
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
Battery - type	Lithium Ion, <b>3-cell</b> or <b>6-cell</b>		
Battery - life <sup>10</sup>	<i>3-cell:</i> up to 3.0 hr; <i>6-cell:</i> up to 6.0 hr		
Chipset	<b>Mobile Intel 945GSE Express Chipset</b> (Graphics Memory Controller Hub), ICH7M I/O Controller Hub (SATA 1.5Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC)		
ExpressCard/34	One slot (ExpressCard/34)		
Multicard reader	4-in-1 reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card)		
Ports	Two USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)		
TV tuner	None		
Mini PCI Express	One Mini PCI Express slot		
11b/g <sup>28</sup>	11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312		
Bluetooth™	None		
Modem	None		
Ethernet	10/100 ethernet, Broadcom® BCM5906, PCI 2.3		
Audio support	High Definition (HD) Audio, RealTek® ALC269 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm)		
Security	Power-on password, supervisor password, security keyhole,		
Fingerprint reader	None		
<b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year parts and labor</b> ⇨ <b>Depot repair service<sup>19</sup></b> ⇨ <b>Service upgrade options (in eligible locations):<sup>9</sup></b> <ul style="list-style-type: none"> <li>• <b>1-year accidental damage protection via depot</b> 43R8885</li> <li>• <b>3-year Lenovo Onsite Repair<sup>13</sup> 9x5 Next Business Day</b> 43R8883</li> <li>• <b>3-year Lenovo Onsite Repair<sup>13</sup> 9x5 Next Business Day with accidental damage protection</b> 43R8884</li> </ul> ⇨ <b>24x7<sup>16</sup> toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>			

See footnotes for important warranty information  
 US models announced March 17, 2009

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 (MRA1-3) June 2009

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	Disk	Mini PCIe 802.11 wireless	Mini PCIe WWAN	Color	Bluetooth	Battery cells	Quick Start	Preload	Avail date
4333-36U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB <sup>2</sup>	11b/g <sup>11</sup>		Black		3-cell	Quick	XP Home	Oct 09
4333-37U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g		Black		6-cell	Quick	XP Home	Oct 09
4333-38U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g		Black	Bluetooth	6-cell	Quick	XP Home	Oct 09
4333-22U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	WWAN	Black		3-cell	Quick	XP Home	May 09
4333-25U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	WWAN	Black		6-cell	Quick	XP Home	May 09
4333-2TU	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	WWAN	Black	Bluetooth	6-cell	Quick	XP Home	May 09
4333-2WU	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	AT&T	Black	Bluetooth	6-cell	Quick	XP Home	Oct 09

- **Lenovo's netbook: smaller and lighter than a notebook**
- **10.1" widescreen display with LED backlight**
- **Super-slim (starting at 0.9 inches thin), ultra-light (starting at 2.43 pounds)**
- **Integrated WWAN adapter**
- **Touch pad supports multi-touch function (pinch, expansion, chiral motion)**
- **Integrated camera**
- **(Select models) Lenovo® Quick Start: Utility for quick access to Web, music, photos, chat, and Skype® without booting Windows**

Positioning	<i>Netbook; consumer markets</i>										<b>Preloaded operating system<sup>20</sup></b>			
Processor	Intel® Atom™ Processor N270 with single-core, Hyper-Threading technology, 533MHz system bus, and 512KB L2 cache										- Genuine Windows® XP Home Edition			
Memory	1GB std / 2GB* max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, single-channel, one 200-pin SO-DIMM socket; * Windows XP Home models can only be shipped with maximum of 1GB in memory <i>Non-italics:</i> standard memory 1GB soldered to systemboard; one socket available										<b>Preloaded applications<sup>14</sup></b>			
External combo SATA disk	None 160GB (5400 rpm) HDD / SATA 1.5Gb/s, 9.5mm high, 2.5" wide, not removable										• Norton Internet Security™ (90 days of virus definitions)			
Widescreen display	10.1" (256.5mm) WSVGA (1024x576) TFT color, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio										• Adobe® Reader			
Camera	Camera on top of screen, 1.3-megapixel, fixed focus										• Windows Live™ Toolbar			
Graphics	Intel Graphics Media Accelerator 950 (GMA 950), in 945GSE										• Lenovo Energy Management Software			
Keyboard	6-row, 80-key, 85% size, Fn keys, Novo key, wireless on/off button										• VeriFace™			
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch										• Lenovo Quick Start			
Dimensions <sup>3</sup>	3-cell: (WxDxH): 9.8" x 7.2" x 0.9-1.1"; 250mm x 183mm x 22-27.5mm 6-cell: (WxDxH): 9.8" x 7.7" x 0.9-1.4"; 250mm x 196mm x 22-36mm										• Ericsson Connection Manager			
Weight <sup>2</sup>	3-cell: starting at 2.65 lb (1.2 kg) 6-cell: starting at 3.09 lb (1.4 kg)													
Case color	Top: black Bottom: black													
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic													
Battery - type	Lithium Ion, 3-cell 2600 mAh or 6-cell 4800 mAh													
Battery - life <sup>10</sup>	3-cell: up to 2.5 hr; 6-cell: up to 5.0 hr													
Chipset	Mobile Intel 945GSE Express Chipset (Graphics Memory Controller Hub), ICH7M I/O Controller Hub (SATA 1.5Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC)													
ExpressCard/34	None													
Multicard reader	4-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card)													
Ports	Two USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)													
TV tuner	None										40-watt AC adapter RoHS-compliant			
Mini PCI Express 11b/g <sup>28</sup>	Two Mini PCI Express slots 11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312										<b>Limited Warranty<sup>12</sup></b>			
WWAN	<i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter, GPRS/WCDMA/HSPA													
AT&T	<i>Some:</i> Wireless WAN, Ericsson chipset, Mini PCIe adapter and SIM, GPRS/WCDMA/HSPA, service contract required with AT&T													
Bluetooth™	<i>Some:</i> Bluetooth 2.1 wireless, LED indicator													
Modem	None										↪ Split warranty: 1-year for display, disk, systemboard; 90-day for other parts			
Ethernet	10/100 ethernet, Broadcom® BCM5906, PCI 2.3										↪ EasyServ™ depot repair service <sup>19</sup>			
Audio support	High Definition (HD) Audio, RealTek® ALC269 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm)										↪ International Warranty Service <sup>17</sup>			
Security	Power-on password, supervisor password, security keyhole										↪ 24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 800-426-7378			
Fingerprint reader	None													

See footnotes for important warranty information

Ⓜ US models announced October 20, 2009; previous models on May 27 or September 30, 2009



Lenovo IdeaPad S10-2  
Gray



Lenovo IdeaPad S10-2  
Gray



Lenovo IdeaPad S10-2  
Black, White, Gray, and Pink



Lenovo IdeaPad S10-2  
White



Lenovo IdeaPad S10-2  
Pink



Lenovo IdeaPad S10-2  
Pink

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	Mini PCIe 802.11 wireless	Top color	Bluetooth	Battery	Preload	Avail date
2957-L2U	Atom N270	1.60	1GB	10.1" WSVGA	0.3M	GMA	160GB <sup>8</sup>	11b/g <sup>11</sup>	Black (pattern)		6-cell	XP Home	Sep 09
2957-22U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	Black (pattern)		6-cell	XP Home	May 09
2957-23U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	Gray (pattern)		6-cell	XP Home	May 09
2957-29U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	Gray (pattern)		6-cell	XP Home	Sep 09
2957-L3U	Atom N270	1.60	1GB	10.1" WSVGA	0.3M	GMA	160GB	11b/g	White (pattern)		6-cell	XP Home	Sep 09
2957-24U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	White (pattern)		6-cell	XP Home	May 09
2957-25U	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	Pink (pattern)		6-cell	XP Home	May 09
2957-2AU	Atom N270	1.60	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	Pink (pattern)		6-cell	XP Home	Sep 09
2957-6AU	Atom N280	1.66	1GB	10.1" WSVGA	1.3M	GMA	160GB	11b/g	White (nature)	Bluetooth	6-cell	XP Home	Aug 09

- **Lenovo's netbook: smaller and lighter than a notebook**
- **10.1" widescreen, glossy display display with LED backlight**
- **Super-slim (starts at 0.8 inches thin), ultra-light (weighs just over 2.20 pounds)**
- **Multiple color choices: black, white, gray, or pink, with fashion pattern**
- **Touch pad supports multi-touch function to enhance the experience of user control**
- **Integrated camera and Lenovo's VeriFace™ face recognition software helps control access to your notebook by recognizing your face.**
- **OneKey™ Rescue System includes OneKey Recovery with press of recovery key**
- **Lenovo® Quick Start: Utility for quick access to Web, music, photos, chat, and Skype® without booting Windows**

Positioning	<i>Netbook; consumer markets</i>		<b>Preloaded operating system</b> <sup>20</sup> - Genuine Windows® XP Home Edition
Processor	<b>Intel® Atom™ Processor N270</b> or <b>N280</b> with single-core, Hyper-Threading technology, and 512KB L2 cache; N270: 533MHz system bus; N280: 667MHz system bus		
Memory	<b>1GB</b> std / <b>2GB</b> max* / <b>PC2-5300 667MHz DDR2</b> (operating at 533MHz), non-parity, single-channel, one 200-pin SO-DIMM socket; * Windows XP Home models can only be shipped with maximum of 1GB in memory <i>Non-italics: standard memory 1GB in socket; no socket available</i>		<b>Preloaded applications</b> <sup>14</sup> • Lenovo® OneKey Recovery • Norton Internet Security™ (90 days of virus definitions) • Adobe® Reader • Windows Live™ Toolbar • Lenovo Energy Management Software • VeriFace™ • Lenovo Quick Start • Microsoft® Office 2007 Trial (60-day)
Diskette drive	None		
External combo	None		
SATA disk	<b>160GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, 2.5" platter, not removable		
Widescreen display	<b>10.1"</b> (256.5mm) <b>WSVGA (1024x600) TFT color, VibrantView</b> (glossy); <b>LED backlight</b> , 200 nits, 16:9 aspect ratio, 300:1 contrast ratio		
Camera	Camera on top of screen, 03 -megapixel or 1.3-megapixel, fixed focus		
Graphics	<b>Intel Graphics Media Accelerator 950 (GMA 950)</b> , in 945GSE		
Keyboard	89% full size keyboard, Fn keys, recovery key, Quick Start button		
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch		
Dimensions <sup>3</sup>	<i>3-cell: (WxDxH): 10.2" x 7.2" x 0.7-1.0"; 258mm x 183mm x 18-25.4mm</i> <i>6-cell: (WxDxH): 10.2" x 7.6" x 0.7-1.8"; 258mm x 194mm x 18-44.7mm</i>		
Weight <sup>2</sup>	<i>3-cell: starting at 2.20 lb (1.0 kg)</i> <i>6-cell: starting at 2.65 lb (1.2 kg)</i>		
Case color	Top: black, white, gray, or pink, with fashion pattern* * <i>White (nature) model does not have pattern on top</i> Palm rest: color matches top color Bottom: black for black and gray top, white for white and pink top		40-watt AC adapter Wireless on/off switch ENERGY STAR® 5.0-compliant RoHS-compliant
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic		
Battery - type	Lithium Ion, <b>3-cell</b> or <b>6-cell</b>		<b>Limited Warranty</b> <sup>12</sup> ⇨ <b>1-year warranty*</b> : * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options (in eligible locations):</b> <sup>9</sup> • <b>2-year depot warranty</b> 45K5425 • <b>3-year depot warranty</b> 55Y3371 • <b>1-year accidental damage protection via depot</b> 55Y3373 • <b>2-year accidental damage protection via depot</b> 55Y3375 • <b>3-year accidental damage protection via depot</b> 55Y3377 ⇨ <b>24x7<sup>16</sup> toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Battery - life <sup>10</sup>	<i>3-cell: up to 3.0 hr; 6-cell: up to 6.0 hr</i>		
Chipset	<b>Mobile Intel 945GSE Express Chipset</b> (Graphics Memory Controller Hub), ICH7M I/O Controller Hub (SATA 1.5Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC)		
ExpressCard/34	None		
Multicard reader	4-in-1 reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card)		
Ports	Three USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)		
TV tuner	None		
Mini PCI Express	Two Mini PCI Express slot		
11b/g <sup>28</sup>	11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312		
Bluetooth™	<i>Some:</i> Bluetooth 2.1 wireless, LED indicator		
Modem	None		
Ethernet	10/100 ethernet, RealTek® RTL8103EL, PCI 2.3		
Audio support	High Definition (HD) Audio, RealTek ALC272 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm), Dolby® Headphone™ certificated		
Security	Power-on password, supervisor password, security keyhole		
Fingerprint reader	None		

See footnotes for important warranty information

Ⓢ US models announced September 10, 2009; previous models on May 27, 2009



Lenovo IdeaPad S12 (VIA or Intel platform)  
Black with 3-cell battery



Lenovo IdeaPad S12  
Black with 3-cell battery



Lenovo IdeaPad S12 (VIA or Intel platform)  
Black with 3-cell battery



Lenovo IdeaPad S12 (VIA or Intel platform)  
White and Black with 3-cell battery



Lenovo IdeaPad S12 (VIA or Intel platform)  
White with 6-cell battery



Lenovo IdeaPad S12 (NVIDIA ION platform\*)  
White with 6-cell battery  
\* ION models have HDMI port instead of ExpressCard/34

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	Mini PCIe 802.11 wireless	Color	Blue-tooth	Battery	Preload	Avail date
2959-55U	Atom N270	1.60	1GB	12.1" WXGA	1.3M	GMA	160GB <sup>8</sup>	11b/g <sup>11</sup>	White	None	6-cell	XP Home	Jun 09
2959-33U	Atom N270	1.60	1GB	12.1" WXGA	1.3M	GMA	160GB	11b/g	White	None	6-cell	XP Home	Sep 09
2959-54U	Atom N270	1.60	1GB	12.1" WXGA	1.3M	GMA	160GB	11b/g	Black	None	6-cell	XP Home	Jun 09
2959-32U	Atom N270	1.60	1GB	12.1" WXGA	1.3M	GMA	160GB	11b/g	Black	None	6-cell	XP Home	Sep 09

- **A 12" netbook provides full size keyboard with standard touchpad for good user experience**
- **12.1" widescreen, glossy display with LED backlight**
- **Integrated 1.3 megapixel camera and Lenovo's VeriFace™ face recognition software helps control access to your notebook by recognizing your face.**
- **OneKey™ Rescue System includes OneKey Recovery with press of recovery key**
- **Lenovo® Quick Start: Utility for quick access to Web, music, photos, chat, and Skype® without booting Windows**

Positioning	<i>Netbook; consumer markets</i>										<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® XP Home Edition  <b>Preloaded applications<sup>14</sup></b> • Lenovo® OneKey Recovery • Norton Internet Security™ (90 days of virus definitions) • Adobe® Reader • Windows Live™ Toolbar • Lenovo Energy Management Software • VeriFace™ • Lenovo Quick Start
Processor	Intel® Atom™ Processor N270 with single-core, Hyper-Threading technology, 533MHz system bus, and 512KB L2 cache										
Memory	1GB std / 2GB max <sup>7</sup> / PC2-5300 667MHz DDR2, non-parity, single-channel, one 200-pin SO-DIMM socket <i>Non-italics:</i> standard memory 1GB soldered to systemboard; one socket available										
Diskette drive	None										
External combo	None										
SATA disk	160GB (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, 2.5" platter, not removable										
Widescreen display	12.1" (307mm) WXGA (1280x800) TFT color, VibrantView (glossy), LED backlight, 200 nits, 16:10 aspect ratio, 500:1 contrast ratio										
Camera	Camera on top of screen, 1.3-megapixel, fixed focus										
Graphics	Intel Graphics Media Accelerator 950 (GMA 950), in 945GSE										
Keyboard	Full size keyboard, Fn keys, recovery key, Quick Start button										
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®)										
Dimensions <sup>3</sup>	3-cell: (WxDxH): 11.5" x 8.5" x 0.9-1.1"; 292mm x 216mm x 22-28.9mm 6-cell: (WxDxH): 11.5" x 9.1" x 0.9-1.4"; 292mm x 230mm x 22-36mm										
Weight <sup>2</sup>	3-cell: starting at 3.09 lb (1.4 kg) 6-cell: starting at 3.42 lb (1.55 kg)										
Case color	Top: black or white, with fashion pattern Palm rest: color matches top color Bottom: color matches top color										
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic										
Battery - type	Lithium Ion, 3-cell or 6-cell										
Battery - life <sup>10</sup>	3-cell: up to 3.0 hr; 6-cell: up to 6.0 hr										
Chipset	Mobile Intel 945GSE Express Chipset (Graphics Memory Controller Hub), ICH7M I/O Controller Hub (SATA 1.5Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC)										
ExpressCard/34	One slot (ExpressCard/34)										
Multicard reader	4-in-1 reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card)										
Ports	Three USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)										
TV tuner	None										
Mini PCI Express	One Mini PCI Express slot										
11b/g <sup>11</sup>	11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312										
Bluetooth™	None										
Modem	None										
Ethernet	10/100 ethernet, Broadcom® BCM5784M										
Audio support	High Definition (HD) Audio, RealTek® ALC269 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm) with Dolby® Headphone™ certification										
Security	Power-on password, supervisor password, harddisk password, security keyhole										
Fingerprint reader	None										
											<b>Limited Warranty<sup>12</sup></b> ⇨ 1-year warranty*: * 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter ⇨ Mail In repair service ⇨ Service upgrade options (in eligible locations): <sup>9</sup> • 2-year depot warranty 45K5425 • 3-year depot warranty 55Y3371 • 1-year accidental damage protection via depot 55Y3373 • 2-year accidental damage protection via depot 55Y3375 • 3-year accidental damage protection via depot 55Y3377 ⇨ 24x7 <sup>16</sup> toll-free support for warranty issues during the warranty period <sup>12</sup> via 877-453-6686

See footnotes for important warranty information

Ⓢ US models announced September 10, 2009; previous models on June 24, 2009

© Lenovo (MC1-1) September 2009

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	Mini PCIe 802.11 wireless	Color	Blue-tooth	Battery	Win 7 preload	Avail date
2959-5AU	Atom N270	1.60	2GB	12.1" WXGA	1.3M	GMA	160GB	11b/g	White	None	6-cell	Prem 32	Oct 09
2959-5BU	Atom N270	1.60	2GB	12.1" WXGA	1.3M	GMA	160GB	11b/g	Black	None	6-cell	Prem 32	Oct 09

- **A 12" netbook provides full size keyboard with standard touchpad for good user experience**
- **12.1" widescreen, glossy display with LED backlight**
- **Integrated 1.3 megapixel camera and Lenovo's VeriFace™ face recognition software helps control access to your notebook by recognizing your face.**
- **OneKey™ Rescue System includes OneKey Recovery with press of recovery key**
- **Lenovo® Quick Start: Utility for quick access to Web, music, photos, chat, and Skype® without booting Windows**

Positioning Processor	<i>Netbook; consumer markets</i> <b>Intel® Atom™ Processor N270</b> with single-core, Hyper-Threading technology, 533MHz system bus, and 512KB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 32  <b>Preloaded applications<sup>14</sup> (only some listed)</b> • Lenovo® OneKey Recovery • McAfee VirusScan® Plus 2009 (30 days of virus definitions) • Adobe® Reader® • Windows Live™ Toolbar • Lenovo Energy Management Software • VeriFace™ • Lenovo Quick Start
Memory	<b>2GB</b> std / 2GB max <sup>7</sup> / <b>PC2-5300 667MHz DDR2</b> , non-parity, single-channel, one 200-pin SO-DIMM socket <i>Italics:</i> standard memory 1GB soldered to systemboard; 1GB in socket; no sockets available;	
Diskette drive	None	
External combo SATA disk	None <b>160GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, 2.5" platter, not removable	
Widescreen display	<b>12.1"</b> (307mm) <b>WXGA (1280x800) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 1.3-megapixel, fixed focus	
Graphics	<b>Intel Graphics Media Accelerator 950 (GMA 950)</b> , in 945GSE	
Keyboard	Full size keyboard, Fn keys, recovery key, Quick Start button	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®)	
Dimensions <sup>3</sup>	<i>3-cell:</i> (WxDxH): 11.5" x 8.5" x 0.9-1.1"; 292mm x 216mm x 22-28.9mm <i>6-cell:</i> (WxDxH): 11.5" x 9.1" x 0.9-1.4"; 292mm x 230mm x 22-36mm	
Weight <sup>2</sup>	<i>3-cell:</i> starting at 3.09 lb (1.4 kg) <i>6-cell:</i> starting at 3.42 lb (1.55 kg)	
Case color	<i>Top:</i> black or white, with fashion pattern <i>Palm rest:</i> color matches top color <i>Bottom:</i> color matches top color	40-watt AC adapter wireless on/off switch EPEAT™ Silver rating ENERGY STAR® 5.0-compliant RoHS-compliant  <b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*:</b> * <b>1-year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail in repair service</b> ⇨ <b>Service upgrade options (in eligible locations):<sup>9</sup></b> • <b>2-year depot warranty</b> 45K5425 • <b>3-year depot warranty</b> 55Y3371 • <b>1-year accidental damage protection via depot</b> 55Y3373 • <b>2-year accidental damage protection via depot</b> 55Y3375 • <b>3-year accidental damage protection via depot</b> 55Y3377 ⇨ <b>24x7<sup>16</sup> toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion, <b>3-cell</b> or <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>3-cell:</i> up to 3.0 hr; <i>6-cell:</i> up to 6.0 hr	
Chipset	<b>Mobile Intel 945GSE Express Chipset</b> (Graphics Memory Controller Hub), ICH7M I/O Controller Hub (SATA 1.5Gb/s, USB 2.0, PCI Express® 1.1, PCI 2.3, ethernet MAC)	
ExpressCard/34	One slot (ExpressCard/34)	
Multicard reader	4-in-1 reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card)	
Ports	Three USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)	
TV tuner	None	
Mini PCI Express	One Mini PCI Express slot	
11b/g <sup>11</sup>	11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet, Broadcom® BCM5784M	
Audio support	High Definition (HD) Audio, RealTek® ALC269 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm) with Dolby® Headphone™ certification	
Security	Power-on password, supervisor password, hddisk password, security keyhole	
Fingerprint reader	None	

See footnotes for important warranty information  
 US models announced October 23, 2009

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	Mini PCIe 802.11 wireless	Color	Blue-tooth	Battery	Preload	Avail date
2959-56U	U2250	1.30+	1GB	12.1" WXGA	1.3M	VIA Chrome9 HC3	160GB <sup>8</sup>	11b/g <sup>11</sup>	Black	None	6-cell	XP Home	Aug 09

- **A 12" netbook provides full size keyboard with standard touchpad for good user experience**
- **12.1" widescreen, glossy display with LED backlight**
- **Integrated 1.3 megapixel camera and Lenovo's VeriFace™ face recognition software helps control access to your notebook by recognizing your face.**
- **OneKey™ Rescue System includes OneKey Recovery with press of recovery key**
- **Lenovo® Quick Start: Utility for quick access to Web, music, photos, chat, and Skype® without booting Windows**

Positioning Processor	<i>Netbook; consumer markets</i> <b>VIA Nano™ Processor U2250</b> with single-core, 800MHz system bus, and 1MB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® XP Home Edition  <b>Preloaded applications<sup>14</sup></b> • Lenovo® OneKey Recovery • Norton Internet Security™ (90 days of virus definitions) • Adobe® Reader • Windows Live™ Toolbar • Lenovo Energy Management Software • VeriFace™ • Lenovo Quick Start
Memory	<b>1GB</b> std / 2GB max <sup>7</sup> / <b>PC2-5300 667MHz DDR2</b> , non-parity, single-channel, one 200-pin SO-DIMM socket <i>Non-italics</i> : standard memory 1GB soldered to systemboard; one socket available	
Diskette drive	None	
External combo	None	
SATA disk	<b>160GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, 2.5" platter, not removable	
Widescreen display	<b>12.1"</b> (307mm) <b>WXGA (1280x800) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 1.3-megapixel, fixed focus	
Graphics	<b>VIA Chrome9™ HC3 integrated graphics</b> , in VX800	
Keyboard	Full size keyboard, Fn keys, recovery key, Quick Start button	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®)	
Dimensions <sup>3</sup>	<i>3-cell</i> : (WxDxH): 11.5" x 8.5" x 0.9-1.1"; 292mm x 216mm x 22-28.9mm <i>6-cell</i> : (WxDxH): 11.5" x 9.1" x 0.9-1.4"; 292mm x 230mm x 22-36mm	Available at these retailers • lenovo.com  40-watt AC adapter wireless on/off switch EPEAT™ Silver rating ENERGY STAR® 5.0-compliant RoHS-compliant  <b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*</b> : * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options (in eligible locations):<sup>9</sup></b> • <b>2-year depot warranty</b> 45K5425 • <b>3-year depot warranty</b> 55Y3371 • <b>1-year accidental damage protection via depot</b> 55Y3373 • <b>2-year accidental damage protection via depot</b> 55Y3375 • <b>3-year accidental damage protection via depot</b> 55Y3377 ⇨ <b>24x7<sup>16</sup> toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Weight <sup>2</sup>	<i>3-cell</i> : starting at 3.09 lb (1.4 kg) <i>6-cell</i> : starting at 3.42 lb (1.55 kg)	
Case color	<i>Top</i> : black or white, with fashion pattern <i>Palm rest</i> : color matches top color <i>Bottom</i> : color matches top color	
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion, <b>3-cell</b> or <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>3-cell</i> : up to 2.5 hr; <i>6-cell</i> : up to 4.6 hr	
Chipset	<b>VIA VX800 Unified Chipset</b> (integrates all the cutting-edge features of a modern chipset's North and South bridges into a single chip package )	
ExpressCard/34	One slot (ExpressCard/34)	
Multicard reader	4-in-1 reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card)	
Ports	Three USB 2.0, external monitor (VGA DB-15), ethernet (RJ-45)	
TV tuner	None	
Mini PCI Express	One Mini PCI Express slot	
11b/g <sup>28</sup>	11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312	
Bluetooth™	None	
Modem	None	
Ethernet	10/100 ethernet, Broadcom® BCM5906M	
Audio support	High Definition (HD) Audio, RealTek® ALC269 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm) with Dolby® Headphone™ certification	
Security	Power-on password, supervisor password, harddisk password, security keyhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US model announced August 5, 2009

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(MC1-2) August 2009

Type-model	Processor	GHz	Memory	Widescreen display	Camera	Integrated graphics	SATA disk	Mini PCIe 802.11 wireless	Color	Bluetooth	Battery	Win 7 preload	Avail date
2959-5FU	Atom N270	1.60	2GB	12.1" WXGA	1.3M	NVIDIA ION	250GB <sup>8</sup>	11b/g <sup>11</sup>	Black	Bluetooth	6-cell	Prem 32	Oct 09
2959-5GU	Atom N270	1.60	3GB	12.1" WXGA	1.3M	NVIDIA ION	320GB	11b/g	Black	Bluetooth	6-cell	Prem 32	Oct 09
2959-5DU	Atom N270	1.60	2GB	12.1" WXGA	1.3M	NVIDIA ION	250GB	11b/g	Black	Bluetooth	6-cell	Prem 32	Oct 09
2959-5EU	Atom N270	1.60	2GB	12.1" WXGA	1.3M	NVIDIA ION	250GB	11b/g	White	Bluetooth	6-cell	Prem 32	Oct 09

- **A 12" netbook provides full size keyboard with standard touchpad for good user experience**
- **12.1" widescreen, glossy display with LED backlight**
- **Integrated 1.3 megapixel camera and Lenovo's VeriFace™ face recognition software helps control access to your notebook by recognizing your face.**
- **OneKey™ Rescue System includes OneKey Recovery with press of recovery key**
- **Lenovo® Quick Start: Utility for quick access to Web, music, photos, chat, and Skype® without booting Windows**

Positioning Processor	<i>Netbook; consumer markets</i> <b>Intel® Atom™ Processor N270</b> with single-core, Hyper-Threading technology, 533MHz system bus, and 512KB L2 cache	<b>Preloaded operating system<sup>20</sup></b> - Genuine Windows® 7 Home Premium 32  <b>Preloaded applications<sup>14</sup> (only some listed)</b> <ul style="list-style-type: none"> <li>• Lenovo® OneKey Recovery</li> <li>• McAfee VirusScan® Plus 2009 (30 days of virus definitions)</li> <li>• Adobe® Reader®</li> <li>• Windows Live™ Toolbar</li> <li>• Lenovo Energy Management Software</li> <li>• VeriFace™</li> <li>• Lenovo Quick Start</li> </ul>
Memory	<b>2GB</b> or <b>3GB</b> std / 3GB max <sup>7</sup> / <b>PC2-5300 667MHz DDR2</b> , non-parity, single-channel, one 200-pin SO-DIMM socket <i>Italics:</i> standard memory 1GB soldered to systemboard; 1GB or 2GB in socket; no sockets available;	
Diskette drive	None	
External combo SATA disk	None <b>250GB</b> (5400 rpm) or <b>320GB</b> (5400 rpm) / SATA 1.5Gb/s, 9.5mm high, 2.5" platter, not removable	
Widescreen display	<b>12.1"</b> (307mm) <b>WXGA (1280x800) TFT color, VibrantView</b> (glossy), <b>LED backlight</b> , 200 nits, 16:10 aspect ratio, 500:1 contrast ratio	
Camera	Camera on top of screen, 1.3-megapixel, fixed focus	
Graphics	<b>NVIDIA® ION™ graphics processor</b> , in MCP79, DirectX 10, PureVideo® HD technology, Full HD decode (1080i/p), uses main memory, one VGA DB-15 connector, one HDMI connector, HDCP-compliant	
Keyboard	Full size keyboard, Fn keys, recovery key, Quick Start button	
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®)	
Dimensions <sup>3</sup>	<i>3-cell:</i> (WxDxH): 11.5" x 8.5" x 0.9-1.1"; 292mm x 216mm x 22-28.9mm <i>6-cell:</i> (WxDxH): 11.5" x 9.1" x 0.9-1.4"; 292mm x 230mm x 22-36mm	
Weight <sup>2</sup>	<i>3-cell:</i> starting at 3.09 lb (1.4 kg) <i>6-cell:</i> starting at 3.42 lb (1.55 kg)	
Case color	<i>Top:</i> black or white, with fashion pattern <i>Palm rest:</i> color matches top color <i>Bottom:</i> color matches top color	<b>40-watt AC adapter</b> wireless on/off switch EPEAT™ Silver rating ENERGY STAR® 5.0-compliant RoHS-compliant  <b>Limited Warranty<sup>12</sup></b> ⇨ <b>1-year warranty*:</b> * <b>1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter</b> ⇨ <b>Mail In repair service</b> ⇨ <b>Service upgrade options (in eligible locations):<sup>9</sup></b> <ul style="list-style-type: none"> <li>• <b>2-year depot warranty</b> 45K5425</li> <li>• <b>3-year depot warranty</b> 55Y3371</li> <li>• <b>1-year accidental damage protection via depot</b> 55Y3373</li> <li>• <b>2-year accidental damage protection via depot</b> 55Y3375</li> <li>• <b>3-year accidental damage protection via depot</b> 55Y3377</li> </ul> ⇨ <b>24x7<sup>16</sup> toll-free support for warranty issues during the warranty period<sup>12</sup> via 877-453-6686</b>
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic	
Battery - type	Lithium Ion, <b>3-cell</b> or <b>6-cell</b>	
Battery - life <sup>10</sup>	<i>3-cell:</i> up to 3.0 hr; <i>6-cell:</i> up to 6.0 hr	
Chipset	<b>NVIDIA ION chipset (MCP79)</b> , integrates all features of a modern chipset's North and South bridges into a single chip package	
ExpressCard/34 Multicard reader	None 4-in-1 reader (MultiMedia Card, Memory Stick®, Memory Stick PRO™, Secure Digital Card)	
Ports	Three USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
TV tuner	None	
Mini PCI Express	One Mini PCI Express slot	
Bluetooth™	11b/g wireless <sup>4</sup> , Mini PCIe adapter, Broadcom® BCM4312	
Modem	Bluetooth 2.1 wireless, LED indicator	
Ethernet	None	
Audio support	10/100 ethernet, Broadcom® BCM5784M High Definition (HD) Audio, RealTek® ALC269 codec / two stereo speakers (1.5 watt) / microphone, microphone input jack (3.5 mm), stereo headphone jack (3.5 mm) with Dolby® Headphone™ certification	
Security	Power-on password, supervisor password, harddisk password, security keyhole	
Fingerprint reader	None	

See footnotes for important warranty information  
US models announced October 22, 2009

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(MC1-3) October 2009

**Partial list of accessories supported on:  
IdeaPad S9, S10, S10-2, S12, U110, U330, U450p, Y430, Y450, Y510,  
Y530, Y550, Y650, Y710, and Y730**

**Storage and removable storage**

USB 2.0 MyKey E10 Flash Drive 1GB	45J7701	ann 04/29/08
USB 2.0 MyKey E10 Flash Drive 2GB	45J7702	ann 04/29/08
USB 2.0 MyKey E10 Flash Drive 4GB	45J7703	ann 04/29/08
USB 2.0 MiniKey M10D1 Flash 2GB (gray)	45J7752	ann 05/20/08
USB 2.0 MiniKey M10D2 Flash 2GB (black)	45J7754	ann 05/20/08
USB 2.0 MiniKey M10E1 Flash 2GB (teal)	45J7756	ann 05/20/08
USB 2.0 MiniKey M10E2 Flash 2GB (pink)	45J7758	ann 05/20/08
USB 2.0 Essential Memory Key 4GB	45J7904	ann 06/24/08
USB 2.0 Essential Memory Key 8GB	45J7905	ann 07/15/08
USB 2.0 DataSlim E16 Portable HD 160GB	45J7700	ann 04/29/08
USB 2.0 Portable Secure 160GB Hard Disk	43R2018	ann 11/18/08
USB 2.0 Portable Secure 320GB Hard Disk	43R2019	ann 11/18/08
USB 2.0 Portable 500GB Hard Disk	45K1690	ann 05/26/09
USB 2.0 Super Multi-Burner Drive (black)	45Y2152	ann 01/06/09

**Expansion**

Lenovo Essential Notebook Stand S9, S10	45J9292	ann 05/12/09
USB Port Replicator with Digital Video	45K1610	ann 07/28/09

**Keyboard**

Preferred Pro USB Keyboard	73P5220	ann 06/21/05
Enhanced Performance USB Keyboard	73P2620	ann 03/23/04
Ultraslim Wireless Keyboard and Mouse <sup>52</sup>	57Y4700	ann 09/15/09

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

**Mouse**

Lenovo Laser Mouse (USB)	41U3074	ann 01/23/07
IdeaPad Mini Optical Mouse M10 (black)	47J7729	ann 06/17/08
IdeaPad Mini Optical Mouse M10A (black)	45J7730	ann 07/15/08
Lenovo® Mini Optical Mouse M30 (black)	47J7735	ann 06/17/08
Lenovo Mini Optical Mouse M30 (white)	47J7736	ann 06/17/08
Lenovo Mini Optical Mouse M30 (red)	47J7737	ann 06/17/08
Lenovo Mini Optical Mouse M30 (blue)	47J7738	ann 06/17/08
Mini Wireless Laser Mouse N10 (black)	45J7731	ann 06/17/08
Mini Wireless Laser Mouse N10 (red)	45J7732	ann 06/17/08

**Batteries**

S9, S10		
IdeaPad S9/S10 Li-Ion Battery 6-cell (white)	45K2177	ann 12/16/08
IdeaPad S9/S10 Li-Ion Battery 6-cell (black)	45K2178	ann 12/16/08
Y510, Y530, Y710, and Y730		
Lenovo Y510/Y710 Li-Ion Battery 6-cell	45J7706	ann 04/29/08
Y450 and Y550		
Lenovo Y450/Y550 Li-Ion Battery 6-cell	55Y2054	ann 04/07/09
Y650		
Lenovo Y650 Li-Ion Battery 6-cell	55Y2055	ann 04/07/09
S9, S10		
IdeaPad S9/S10 40W AC Adapter (white)	45K2200	ann 11/18/08
IdeaPad S9/S10 40W AC Adapter (black)	45K2209	ann 11/18/08
U110 and Y510		
90W Ultraslim AC/DC Combo Adapter	41R4493	ann 09/22/09
U330, U350, U450P, U550, Y450, Y550, Y650 and Y730 <sup>45</sup>		
Lenovo 90W AC Adapter	45J7717	ann 08/12/08

<sup>45</sup> Only compatible with the integrated graphic models of Y730

**Carrying Cases**

S9, S10		
IdeaPad 10" Sleeve S110 (pink and gray)	45K2171	ann 10/14/08
S9, S10, U110 and U330		
Women's Executive Red Leather Tote	22P8858	
Lenovo Women's Tote L34 (brown)	45J7728	ann 06/03/08
S9, S10, U110, U330, Y430, Y450, Y510, Y530, and Y550		
IdeaPad Wenger® Backpack	45K1397	ann 10/14/08
IdeaPad B450 Backpack (pink)	55Y2034	ann 01/06/09
Lenovo Entry 15" Backpack B10	45J5468	ann 07/15/08
Lenovo 15" Top Loader T35 (black)	45J7726	ann 06/03/08
Lenovo Carrying Case - BackPack	40Y8603	ann 05/01/07
Lenovo Carr Case - Performance BackPack	41U5254	ann 05/01/07
ThinkPad Sleek BackPack	41A4277	
Lenovo Standard Case	45K1697	ann 11/25/08
Lenovo Standard Backpack	45K1698	ann 11/25/08

**Monitors**

Lenovo® D185 Wide 18.5" Monitor	6318HB1	ann 01/27/09
Lenovo L215 Wide 21.5" Monitor	6325HB1	ann 01/27/09
Lenovo L215p Wide 21.5" Monitor	6325HC1	ann 01/27/09
ThinkVision® L174 17" Monitor	9227AE1	ann 04/15/08
ThinkVision L1700p 17" Monitor	9417HE2	ann 09/17/08
ThinkVision L1711p 17" Monitor	5047HB2	ann 10/20/09
ThinkVision L1900p 19" Monitor	4431HE1	ann 11/11/08
ThinkVision L1940p Wide 19" Monitor	4424HB6	ann 09/17/08
ThinkVision L1951p Wide 19" Monitor	2448HB6	ann 10/20/09
ThinkVision L2240p Wide 22" Monitor	4422HB6	ann 09/17/08
ThinkVision L2250p Wide 22" Monitor	2572HB6	ann 10/20/09
ThinkVision L2251p Wide 22" Monitor	2572HD6	ann 10/20/09
ThinkVision L2251x Wide 22" Monitor	2578HB6	ann 10/20/09
ThinkVision L2440p Wide 24" Monitor	4420HB2	ann 09/17/08
ThinkVision L2440x Wide 24" Monitor	4421HB2	ann 09/17/08

**Monitor Accessories<sup>46</sup>**

ThinkVision USB Soundbar	40Y7616	ann 08/23/05
ThinkVision Soundbar	45K1263	ann 09/16/08
Kensington® MicroSaver® Cable Lock	73P2582	ann 12/29/03
Kensington Twin Head Cable Lock	45K1620	ann 09/30/08
Lenovo Easy Reach Monitor Stand	55Y9258	ann 09/22/09
Radial Arm	19K4464	ann 05/05/00

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

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

**Consumer monitors**

Lenovo L195 Wide 19" LCD Monitor	4418HC1	ann 09/02/08
Lenovo L222 Wide 22" LCD Monitor	4432HF1	ann 09/02/08

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

Accessories Guide pdf at [www.lenovo.com/accessoriesguide](http://www.lenovo.com/accessoriesguide)

**Availability:** All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

**Warranty:** For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

**Footnotes:**

- <sup>1</sup> Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.
- <sup>2</sup> **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.
- <sup>3</sup> **Thinness** may vary at certain points on the system.
- <sup>4</sup> **Wireless capability:** Requires compatible wireless-enabled options sold separately.
- <sup>5</sup> **Post-warranty annual maintenance agreement:** Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.
- <sup>6</sup> **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- <sup>7</sup> **Maximum memory capacity** may require the replacement of standard component with largest supported component available. On ThinkPad systems, even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems Windows XP Professional 64-bit and Windows Vista 64-bit Editions.
- <sup>8</sup> **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.
- <sup>8</sup> **Service upgrade options:** Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees.
- <sup>10</sup> **Battery:** These model numbers achieved the battery life based on MobileMark® 2007 during testing. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.
- <sup>11</sup> **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.
- <sup>12</sup> **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.
- <sup>13</sup> **Onsite Repair:** If a machine is listed as having "On-site", this means that on-site service is available for the replacement of parts for warranty repairs. Certain parts, referred to as Customer Replaceable Unit ("CRU") parts, are easy to install and require little or no tools or technical knowledge. Some examples of CRU parts are mice, keyboards, hard disk drives, speakers, and memory. If your problem can be resolved with a CRU, the Support Center will offer to ship the part to you for you to install.
- <sup>14</sup> **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.
- <sup>15</sup> **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.
- <sup>16</sup> **Response times may vary.** May exclude some holidays. Telephone support may be subject to additional charges.
- <sup>17</sup> **International Warranty Service** is available for most products in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
- <sup>18</sup> **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary and may exclude some holidays.
- <sup>19</sup> **Depot repair service:** In the United States call 1-877-453-6686. The customer may be asked certain diagnostic questions before a courier is sent. Your purchase includes this depot repair service, available in the U.S. during the limited warranty period.
- <sup>20</sup> **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to [lenovo.com/pc/support](http://lenovo.com/pc/support) and enter your machine type and model number for more information.
- <sup>21</sup> **For combination drives,** maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.
- <sup>22</sup> **Lenovo Care Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part can be express shipped to you for quick replacement. For notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See terms and conditions for complete details and restrictions.

<sup>25</sup> **Wireless WAN Cards:** Wireless data service requires separate agreement with Verizon Wireless. Verizon Wireless, not Lenovo, is solely responsible for service. Monthly and airtime charges may apply. Service may not be available in all areas; purchaser is responsible for verifying with Verizon Wireless that service is available for the intended location before the purchase of the card. For complete details, including service plans, additional required hardware or software, and service coverage, visit [www.verizonwireless.com](http://www.verizonwireless.com).

<sup>28</sup> **The IEEE 802.11n specification (MIMO)** has not been finalized and is currently in draft release. The Lenovo 11a/b/g/n (11n) Wireless LAN Mini PCI Express Adapters are based on the Draft Release, Version 1.0, of the IEEE 802.11n specification. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, or 11a/b/g/n can communicate on any of its supported formats.



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Visit [www.lenovo.com/safecomputing](http://www.lenovo.com/safecomputing) periodically for the latest information on safe and effective computing.

Visit [www.lenovo.com/psref](http://www.lenovo.com/psref) for the latest version of Personal Systems Reference.

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