

ThinkPad®



Lenovo® ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520



Lenovo ThinkPad Edge E520

ThinkPad® Edge E520 1143 (Intel) - TopSeller - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ³ rpm	PCle Mini Card WLAN	PCle Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Battery cells	Preload
1143-DPG	i3-2330M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	Ericsson	selectable	Matte black	None	Blue	6	Prem 64
1143-3HG	i3-2310M	4GBx1	15.6" HD	720p	500G 5400	Intel 1000	None	None	Matte red	None	Blue	6	Prem 64
1143-3JG	i3-2310M	2GBx1	15.6" HD	720p	320G 5400	Intel 1000	None	None	Matte black	None	Blue	6	Pro 64
1143-3KG	i3-2310M	4GBx1	15.6" HD	720p	500G 5400	Intel 1000	None	None	Matte black	None	Blue	6	Pro 64
1143-3LG	i5-2410M	4GBx1	15.6" HD	720p	500G 5400	Intel 1000	None	None	Matte black	None	Blue	6	Pro 64
1143-7UG	i3-2310M	4GBx1	15.6" HD	720p	500G 5400	Intel 1000	None	None	Matte black	None	Blue	6	Prem 64
1143-B8G	i3-2330M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	None	Blue	6	Prem 64
1143-B7G	i3-2330M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte red	None	Blue	6	Prem 64
1143-B6G	i3-2330M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	None	Blue	6	Pro 64
1143-B5G	i5-2430M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	None	Blue	6	Pro 64
1143-H8G	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64
1143-HHG	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte red	Finger	Blue	6	Prem 64
1143-GXG	i3-2350M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Prem 64
1143-GWG	i5-2450M	4GBx1	15.6" HD	720p	500G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), HT technology Intel Core i3-2330M processor (dual-core, 2.20GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), HT technology Intel Core i3-2350M processor (dual-core, 2.30GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2410M processor (dual-core, 2.30GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology									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) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)			
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets												
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™												
mSATA™ SSD	None												
Widescreen display	15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio												
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator												
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; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i>												
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad												
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³												
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch												
ThinkLight™	None												
Dimensions ³	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm												
Weight ²	6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)												
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom												
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic												
Battery - type ³⁷	Lithium Ion 6-cell or 9-cell												
Battery - life ¹⁰	6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr												
Chipset	Mobile Intel HM65 Express Chipset												
ExpressCard	One ExpressCard/34												
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)												
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)												
PCle Mini Card WLAN ⁴	Two PCI Express Mini Card slots												
WWAN	11b/g/n, PCle Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 <i>Some:</i> Wireless WAN, Ericsson® F5521gw Mobile Broadband Module, PCle Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS												
Carrier	<i>Some:</i> User selectable, contract required with service provider												
Modem	None												
Bluetooth™	Bluetooth 3.0 wireless												
Ethernet	Realtek® RTL8111E Gigabit Network Connection												
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	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor												
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available												

See footnotes for more detailed information

WE model(s) announced January 17, 2012; previous model(s) on April 19, August 2, August 30, October 4 or December 13, 2011

WE model(s) withdrawn effective September 2012

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Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹²

ThinkPad® Edge E520 1143 (Intel) - TopSeller (February 2012) - withdrawn Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Battery cells	Preload	Ann date (mm/yy)
1143-KCG	i3-2350M	4GBx1	15.6" HD	720p	500G 5400	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64	01/12
1143-KBG	i5-2450M	4GBx1	15.6" HD	720p	500G 5400	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64	01/12
1143-K9G	i3-2350M	4GBx1	15.6" HD	720p	320G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64	01/12
1143-K8G	i5-2450M	4GBx1	15.6" HD	720p	320G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64	01/12
1143-K7G	i3-2350M	4GBx1	15.6" HD	720p	320G 7200	Intel 1000	None	None	Matte black	Finger	Blue	6	Prem 64	01/12

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

Positioning Processor	<i>Sophisticated design with quality, durability and reliability for SMB customers; two spindles</i> Intel® Core™ i3-2350M processor (dual-core, 2.30GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), HT technology Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology		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) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets		
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™		
mSATA™ SSD	None		
Widescreen display	15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio		
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator		
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; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i>		
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad		
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³		
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch		
ThinkLight™	None		
Dimensions ³	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm		
Weight ²	6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)		
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom		
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic		
Battery - type ³⁷	Lithium Ion 6-cell or 9-cell		
Battery - life ¹⁰	6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr		
Chipset	Mobile Intel HM65 Express Chipset		
ExpressCard	One ExpressCard/34		
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)		
Ports	Three 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	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2		
WWAN	None		
Carrier	None		
Modem	None		
Bluetooth™	Bluetooth 3.0 wireless		
Ethernet	Realtek® RTL8111E Gigabit Network Connection		
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 ¹²	1-year - depot repair service / service upgrades ²² available		

Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹²

See footnotes for more detailed information
WE model(s) announced January 24, 2012
WE model(s) withdrawn effective September 2012

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Supports ThinkVantage® technologies

65-watt AC adapter
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant
International Warranty Service¹⁷
24 hour x 7 day¹⁸ toll-free support during the warranty period¹²

ThinkPad® Edge E520 1143 (Intel) - TopSeller (October 2011) - withdrawn Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ³ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Battery cells	Preload
1143-8QG	B810	2GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	None	Matte red	None	Blue	6	Prem 64
1143-8PG	B810	2GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	None	Matte black	None	Blue	6	Pro 64
1143-8NG	B940	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n	None	None	Matte red	None	Blue	6	Prem 64
1143-8MG	B940	4GBx1	15.6" HD	720p	750G 5400	TP 11b/g/n	None	None	Matte black	None	Blue	6	Prem 64
1143-BAG	B950	4GBx1	15.6" HD	720p	750G 5400	TP 11b/g/n	None	None	Matte black	None	Blue	6	Prem 64
1143-B9G	B800	2GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	None	Matte black	None	Blue	6	Pro 64
1143-CNG	B800	2GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	None	Matte red	None	Blue	6	Prem 64
1143-CMG	B950	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n	None	None	Matte red	None	Blue	6	Prem 64
1143-H2G	B960	2GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	None	Matte black	Finger	Blue	6	Prem 64
1143-GZG	B960	4GBx1	15.6" HD	720p	500G 5400	TP 11b/g/n	None	None	Matte black	Finger	Blue	6	Prem 64
1143-GYG	B800	2GBx1	15.6" HD	720p	320G 5400	TP 11b/g/n	None	None	Matte black	Finger	Blue	6	Prem 64
1143-KAG	B960	4GBx1	15.6" HD	720p	250G 5400	TP 11b/g/n	None	None	Matte black	Finger	Blue	6	Prem 64
1143-K6G	B960	2GBx1	15.6" HD	720p	250G 5400	TP 11b/g/n	None	None	Matte black	Finger	Blue	6	Prem 64
1143-K5G	B960	4GBx1	15.6" HD	720p	750G 5400	TP 11b/g/n	None	None	Matte black	Finger	Blue	6	Prem 64
1143-KLG	B960	4GBx1	15.6" HD	720p	320G 7200	TP 11b/g/n	None	None	Matte black	Finger	Blue	6	Prem 64

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Celeron® B800 processor (dual-core, 1.50GHz, 2MB Cache) , DDR3 memory controller (up to 1333MHz) Intel Celeron B810 processor (dual-core, 1.60GHz, 2MB Cache) , DDR3 memory controller (up to 1333MHz) Intel Pentium® B940 processor (dual-core, 2.00GHz, 2MB Cache) , DDR3 memory controller (up to 1333MHz) Intel Pentium B950 processor (dual-core, 2.10GHz, 2MB Cache) , DDR3 memory controller (up to 1333MHz) Intel Pentium B960 processor (dual-core, 2.20GHz, 2MB Cache) , DDR3 memory controller (up to 1333MHz)	Preloaded operating system ²⁰ - <i>Some:</i> Genuine Windows® 7 Home Premium 64 - <i>Some:</i> 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) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™	
mSATA™ SSD	None	
Widescreen display	15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator	
Graphics	Intel HD Graphics 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; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i>	
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³	
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch	
ThinkLight™	None	
Dimensions ³	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm	
Weight ²	6-cell : from 5.51 lb (2.5kg); 9-cell : from 5.86 lb (2.66kg)	
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom	
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic	
Battery - type ³⁷	Lithium Ion 6-cell or 9-cell	
Battery - life ¹⁰	6-cell (48Whr) : up to 6.2 hr; 9-cell (94Whr) : up to 11.7 hr	
Chipset	Mobile Intel HM65 Express Chipset	
ExpressCard	One ExpressCard/34	
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Three 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	11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1	
WWAN	None	
Modem	None	
Bluetooth™	Bluetooth 3.0 wireless	
Ethernet	Realtek® RTL8111E Gigabit Network Connection	
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	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor	
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	

| | | Supports ThinkVantage® technologies |
| | | 65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free support during the warranty period¹² |

See footnotes for more detailed information

WE model(s) announced June 21 or October 4, 2011; January 17, January 24, or February 28, 2012

WE model(s) withdrawn effective September 2012

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(G-GGR1-2) February 2013

ThinkPad® Edge E520 1143 (Intel) - Switchable (TopSeller) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Discrete graphics	Disk SATA GB ⁸ rpm	PCIe Mini Card WLAN	PCIe Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload
1143-3MG	i5-2410M	4GBx1	15.6" HD	720p	1G	500G 5400	Intel 1000	None	None	Matte black	None	Blue	6	Pro 64
1143-3NG	i5-2410M	4GBx1	15.6" HD	720p	1G	500G 5400	Intel 1000	None	None	Matte red	None	Blue	6	Prem 64
1143-B4G	i5-2430M	4GBx1	15.6" HD	720p	1G	750G 5400	Intel 1000	None	None	Matte red	None	Blue	6	Prem 64
1143-B3G	i5-2430M	4GBx1	15.6" HD	720p	1G	750G 5400	Intel 1000	None	None	Matte black	None	Blue	6	Pro 64
1143-JYG	i5-2450M	4GBx1	15.6" HD	720p	2G	500G 7200	Intel 1000	None	None	Matte red	Finger	Blue	6	Prem 64
1143-GVG	i5-2450M	4GBx1	15.6" HD	720p	2G	750G 5400	Intel 1000	None	None	Matte black	Finger	Blue	6	Pro 64

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i5-2410M processor (dual-core, 2.30GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz), HT technology Intel Core i5-2430M processor (dual-core, 2.40GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology Intel Core i5-2450M processor (dual-core, 2.50GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology										Preloaded operating system²⁰ - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 Ready to install applications¹⁴ (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 applications¹⁴ (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) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW) • Corel DVD MovieFactory® Lenovo Edition (DVD±RW)			
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets													
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™													
mSATA™ SSD	None													
Widescreen display	15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio													
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator													
Graphics	Switches between discrete and integrated graphics, Intel HD Graphics 3000 in processor, and AMD Radeon™ HD 6630M graphics, 1GB or 2GB memory, 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; <i>Max external resolution: 2048x1536 (VGA)@75Hz</i>													
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad													
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³													
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch													
ThinkLight™	None													
Dimensions ³	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm													
Weight ²	6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)													
Case color	Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom													
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic													
Battery - type ³⁷	Lithium Ion 6-cell or 9-cell													
Battery - life ¹⁰	6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr													
Chipset	Mobile Intel HM65 Express Chipset													
ExpressCard	One ExpressCard/34													
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)													
Ports	Three 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	11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2													
WWAN	None													
Modem	None													
Bluetooth™	Bluetooth 3.0 wireless													
Ethernet	Realtek® RTL8111E Gigabit Network Connection													
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	<i>Some:</i> UPEK Fingerprint reader on palm rest, swipe sensor													
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available													

See footnotes for more detailed information

WE model(s) announced January 17, 2012; previous model(s) on April 19 or October 4, 2011

WE model(s) withdrawn effective September 2012

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(G-GGR1-3) February 2013

ThinkPad® Edge E520 1143 (Intel) - TopSeller (DOS) - withdrawn

Personal Systems Reference (PSREF)

Type-model	Processor	Memory	Wide-screen display	Camera	Disk SATA GB ⁸ rpm	PCle Mini Card WLAN	PCle Mini Card WWAN /mSATA	Carrier	Top color	Finger print reader	Blue-tooth	Bat-tery cells	Preload
1143-BBG	i5-2430M	4GBx1	15.6" HD	720p	500G 7200	TP 11b/g/n	None	None	Matte black	None	Blue	6	DOS-Lic.

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

Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles Intel® Core™ i5-2430M processor (dual-core, 2.40GHz, 3MB Cache) , DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.00GHz), HT technology	Preloaded operating system²⁰ - DOS-Lic.
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Optical SATA disk	DVD burner, 12.7mm high, fixed, not removable, tray-in Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm or 9.5mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™	
mSATA™ SSD	None	
Widescreen display	15.6" (396mm) HD (1366x768) color , anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio	
Camera	HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator	
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; <i>Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz</i>	
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad	
TrackPoint®	TrackPoint pointing device, Internet Scroll Bar ¹³	
Touchpad	UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch	
ThinkLight™	None	
Dimensions ³	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm	
Weight ²	6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg)	
Case color	Matte black (top), trimmed with a thin silver band (side); black bottom	
Case material	Acrylonitrile-Butadiene-Styrene (ABS) plastic	
Battery - type ³⁷	Lithium Ion 6-cell or 9-cell	
Battery - life ¹⁰	6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr	
Chipset	Mobile Intel HM65 Express Chipset	
ExpressCard	One ExpressCard/34	
Multicard Reader	4-in-1 reader (MMC, SD, SDHC, SDXC)	
Ports	Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	
PCle Mini Card	Two PCI Express Mini Card slots	
WLAN ⁴	11b/g/n, PCle Half Mini Card, ThinkPad 11b/g/n, 1x1	
WWAN	None	
Modem	None	
Bluetooth™	Bluetooth 3.0 wireless	
Ethernet	Realtek® RTL8111E Gigabit Network Connection	
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	None	
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	

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

See footnotes for more detailed information

WE model(s) announced October 4, 2011

WE model(s) withdrawn effective September 2012

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(G-GGR1-4) February 2013