



Lenovo® ThinkPad Edge E520



Lenovo ThinkPad Edge E520



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			Wide- screen		Dis SA		Mini	Card	Cle Mini Card WWAN				Finger print	Blue-	Bat- tery			
Type-model	Processor		display	Camera	GB ⁸			.AN	/mSATA	Carrier	Top o		reader	tooth	celís			
1143-DPG 1143-3HG	i3-2330M i3-2310M	4GBx1 4GBx1	15.6" HD 15.6" HD	720p 720p	500G 500G			1000 1000	Ericsson None	selectable None	Matte Matte		None None	Blue Blue	6 6	Prem 64 Prem 64		
1143-3JG	i3-2310M	2GBx1	15.6" HD	720p	320G			1000	None	None	Matte		None	Blue	6	Pro 64		
1143-3KG	i3-2310M	4GBx1	15.6" HD	720p	500G			1000	None	None	Matte		None	Blue	6	Pro 64		
1143-3LG	i5-2410M	4GBx1	15.6" HD	720p	500G			1000	None	None	Matte		None	Blue	6	Pro 64		
1143-7UG 1143-B8G	i3-2310M i3-2330M	4GBx1 4GBx1	15.6" HD 15.6" HD	720p 720p	500G 500G			1000 1000	None None	None None	Matte Matte		None None	Blue Blue	6 6	Prem 64 Prem 64		
1143-B7G	i3-2330M	4GBx1	15.6" HD	720p	500G			1000	None	None	Matte		None	Blue	6	Prem 64		
1143-B6G	i3-2330M	4GBx1	15.6" HD	720p	500G		Intel	1000	None	None	Matte	black	None	Blue	6	Pro 64		
1143-B5G	i5-2430M	4GBx1	15.6" HD	720p	500G			1000	None	None	Matte		None	Blue	6	Pro 64		
1143-H8G 1143-HHG	i3-2350M i3-2350M	4GBx1 4GBx1	15.6" HD 15.6" HD	720p 720p	500G 500G			1000 1000	None None	None None	Matte Matte		Finger Finger		6 6	Pro 64 Prem 64		
1143-GXG	i3-2350M	4GBx1	15.6" HD	720p	500G			1000	None	None	Matte		Finger		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 at Microso						part of the \	NE TopSelle	er™ Pro	gram						
Positioning Sophisticated design with quality, durability and reliability for SMB customers; two spindles Processor Intel® Core™ i3-2310M processor (dual-core, 2.10GHz, 3MB Cache), Preloaded operating system ²⁰ - Some: Genuine Windows® 7																		
Processor			3-2310M procession of the second procession of						Cache),			- Sor		uine Wir e Premi		-		
	Intel	Core i3-2	330M proce	ėssor (du	ual-core	, 2.200	3Hz, 3	МВ Са	che),			- Sor	<i>ne:</i> Geni					
			controller (cha)				Profe	essional	64			
			controller (one,					all appl	icatio	ons ¹⁴ (only		
			410M proce						che) ,) (2.90GHz),	UT toobno	logy		listed) scue and	Recove	erv™			
			430M proce							TIT LECTINO	logy	Acc	ess Con	nections	S TM			
	DDF	R3 memory	controller (up to 133	3MHz),	Intel Tu	urbo B	oost 2.0) (3.00GHz),	HT techno	logy		gerprint S dels)	oftware	e (fing	jerprint		
			450M proce controller (cne) ,) (3.10GHz),	HT techno	loav	• Pas	sword Ma	anager	(finge	erprint		
Memory			3-10600 13						(011001112)				dels) nkVantag	a Sveta	m Hr	odata		
			apable, two										nkVantag					
Optical SATA disk			2.7mm high, e / SATA 3.0					m hiah					nkVantag					
	remo								, ection Systen	n™		Prelo		olicatio	ns¹⁴	only some		
mSATA™ SS												 Nor 	ton™ Inte					
Widescreen display			HD (1366x 220 nits, 16				ontrast	ratio					days of value of the contract		tinitio	ns)		
Camera									cus, LED ind	icator		Sky	pe™ for \	Vindow				
Graphics			nics 3000 ir monitor su			B-15 cc	nnect	or and				Mic	idows Liv rosoft Off	fice 201	0 pre	loaded;		
	digita	al monitor s	support via	Ḣ̀DMI™ (orotected co	ntent);			chase pro					
			ndependent		(VGA)	@75 ⊔ -	. 1020	v1200	(HDMI)@60I	J-7			be Acrob ndled witl					
Keyboard			stant, multir						וואוטוו) ש טוו	12		• Cor	el® WinD	VD® (D\	√D±F	RW) ´		
TrackPoint®			ting device,				кеура	u					el Burn.N 'D±RW)	low™ L	enov	Edition		
Touchpad			e touchpad	below ke	yboard	Tap Zo	ones, n	nulti-to	ıch			• Cor	el DVĎ M		ctory	® Lenovo		
ThinkLight™ Dimensions³	None		U). 1.4 06" ∨	0.70" v 1	11512	2"· 200	v 2/19	5mm v	29.3-33.7m	m		Edit	tion (DVD	±RW)				
Weight ²	6-ce	II: from 5.5	ií lb (2.5kg)	; 9-cell:	from 5.	86 lb (2	2.66kg)										
Case color	Matt	e black or I	Matte red (to	op), trimr	ned with	a thin	silver	band (s	ide); black b	ottom								
Case materia Battery - type		um Ion 6-ce	tadiene-Sty ell or 9-cell	rene (AB	S) piasi	IC												
Battery - life ¹	⁰ 6-ce		up to 6.2 hr	; 9-cell ((94Whr)	up to	11.7 h	r										
Chipset ExpressCard	Mob	ile Intel HI	M65 Expres	ss Chips	et													
Multicard Re	ader 4-in-	ExpressCa 1 reader (N	ard/34 MMC, SD, S	DHC. SD	XC)													
Ports	Thre	e USB 2.0	(one power	ed), one	USB 2.			bo port	,									
DCIa Mini Ca			or (VGA DB- ss Mini Car		I), etne	rnet (Ru	J-45)					-						
PCIe Mini Ca WLAN⁴			alf Mini Car		Centrino	® Wirele	ess-N	1000. 1	x2									
WWAN	Som	ie: Wireles	s WAN, Erio	csson® F	5521gw	Mobile	Broad	lband N	lodule, PCIe	Mini Card,								
Carrier	Som		WCDMA/HS electable, co				vice pr	ovider										
Modem	None	е			-, ou v	501	.50 Pi					Sunna	orts Think	Vantad	e® te	chnologies		
Bluetooth™ Ethernet		tooth 3.0 w	⁄ireless 111E Gigab	it Networ	k Conn	ection						<u> </u>			J 16	J. II IOIOGICS		
Audio suppo	rt High	Definition	(HD) Audio	Conexa	nt 2067	1 coded	c / ster	eo spe	akers, 1 watt	x 2/			ıtt AC ada T™ Gold					
Security			crophone, c				or noc	eword	security key	hole		ENEF	RGY STAI	Ŗ® 5.Ŏ-c	comp	liant		
Security chip	None	е .	•	•			•		security Keyl	IOIE	RoHS-compliant International Warranty Service ¹⁷							
Fingerprint re	eader <i>Som</i>	e: UPEK I									24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²							
Limited warra	anty ¹² 1-ye	ar - depot ı	repair servic	e / servi	ce upgra	ades ²² a	vailab	le										
See footnotes	for more de	etailed infor	mation													© Lenovo		

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

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	PCle P(Mini Card WLAN	Cle Mini C WWAN /mSATA		Top color	Finger print reader	Blue- tooth	Bat- tery 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)

B	0. 11.5. 11.1. 12. 12. 12. 12. 12. 12. 12. 12.	
Positioning Processor	Sophisticated design with quality, durability and reliability for SMB customers; two spindles 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
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Ready to install applications ¹⁴ (only some listed)
Optical SATA disk mSATA™ SSD	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™ None	 Rescue and Recovery™ Access Connections™ Fingerprint Software (fingerprint models)
Widescreen display Camera	15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator	Password Manager (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager
Graphics	Intel HD Graphics 3000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI™ (supporting HDCP to output protected content); supports dual independent display; Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz	ThinkVantage Toolbox Preloaded applications¹⁴ (only some listed) Norton™ Internet Security 2011 (30 days of virus definitions)
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch None	Adobe® Reader® Skype™ for Windows Windows Live™ Essentials Microsoft Office 2010 preloaded;
Dimensions ³ Weight ² Case color Case material Battery - type ³⁷ Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm 6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg) Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell 6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr	purchase product key to activate • Adobe Acrobat® X Standard (bundled with Microsoft Office) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW)
Chipset ExpressCard Multicard Reader Ports	Mobile Intel HM65 Express Chipset One ExpressCard/34 4-in-1 reader (MMC, SD, SDHC, SDXC) Three USB 2.0 (one powered), one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)	Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
PCIe Mini Card WLAN ⁴ WWAN Carrier	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 None None	
Modem Bluetooth™	None Bluetooth 3.0 wireless	Supports ThinkVantage® technologies
Ethernet Audio support Security Security chip	Realtek® RTL8111E Gigabit Network Connection High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service¹7
	r UPEK Fingerprint reader on palm rest, swipe sensor 2 1-year - depot repair service / service upgrades ²² available	24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²
Limited warranty	1-year - depot repair service / service upgrades available	daming the wallanty period

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

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			Wide- screen		Disk SATA	PCIe PCIe Mini Card Mini Card WWAN		rd		Finger print	Blue-	Bat- tery	
Type-model	Processor	Memory	display	Camera	GB [®] rpm	WLAN	/mSATA	Carrier	Top color	reader	tooth	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) Intel Pentium B960 processor (dual-core, 2.20GHz, 2MB Cache), DDR3 memory controller (up to 1333MHz)	Preloaded operating system ²⁰ - 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
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	 models) Password Manager (fingerprint models)
Optical SATA disk mSATA™ SSD	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™ None	ThinkVantage System Update ThinkVantage Power Manager ThinkVantage Toolbox
Widescreen display Camera	15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator	 Preloaded applications¹⁴ (only some listed) Norton™ Internet Security 2011 (30 days of virus definitions)
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; Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz	 Adobe® Reader® Skype™ for Windows Windows Live™ Essentials Microsoft Office 2010 preloaded; purchase product key to activate Adobe Acrobat® X Standard
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch None	(bundled with Microsoft Office) • Corel® WinDVD® (DVD±RW) • Corel Burn.Now™ Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case color Case material Battery - type ³⁷ Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm 6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg) Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell 6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr	Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Multicard Reader Ports	Mobile Intel HM65 Express Chipset One ExpressCard/34 4-in-1 reader (MMC, SD, SDHC, SDXC) 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 WLAN ⁴ WWAN	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None	
Modem Bluetooth™	None Bluetooth 3.0 wireless	Supports ThinkVantage® technologies
Ethernet Audio support Security Security chip	Realtek® RTL8111E Gigabit Network Connection High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service¹7
	Some: UPEK Fingerprint reader on palm rest, swipe sensor 1-year - depot repair service / service upgrades ²² available	 24 hour x 7 day¹⁸ toll-free support during the warranty period¹²
	. year deport open convice appraised available	during the warranty period

Type-model	Processor	Memory	Wide- screen display		Discret graphic memor	cs SATA	PCle Po Mini Card WLAN	Cle Mini Ca WWAN /mSATA		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 Memory	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 system ²⁰ - Some: Genuine Windows® 7 Home Premium 64 - Some: Genuine Windows 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	 Rescue and Recovery[™] Access Connections[™]
Optical SATA disk mSATA™ SSD	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™ None	Fingerprint Software (fingerprint models) Password Manager (fingerprint models) Think Ventors Custom Undeter
Widescreen display Camera	15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio HD720p resolution, wide view angle, low light sensitive, fixed focus, LED indicator	ThinkVantage System Update ThinkVantage Power Manager ThinkVantage Toolbox
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; Max external resolution: 2048x1536 (VGA)@75Hz	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;
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch None	purchase product key to activate Adobe Acrobat® X Standard (bundled with Microsoft Office) Corel® WinDVD® (DVD±RW)
Dimensions ³ Weight ² Case color Case material Battery - type ³⁷ Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm 6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg) Matte black or Matte red (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium lon 6-cell or 9-cell 6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Chipset ExpressCard Multicard Reader Ports	Mobile Intel HM65 Express Chipset One ExpressCard/34 4-in-1 reader (MMC, SD, SDHC, SDXC) 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 WLAN ⁴ WWAN	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 None	
Modem Bluetooth™	None Bluetooth 3.0 wireless Bluetooth BDI 04445 Circle A Natural Connection	Supports ThinkVantage® technologies
Ethernet Audio support Security Security chip Fingerprint reader	Realtek® RTL8111E Gigabit Network Connection High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None Some: UPEK Fingerprint reader on palm rest, swipe sensor	90-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service¹7 24 hour x 7 day¹8 toll-free support
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	during the warranty period ¹²

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 [®] rpm	PCIe P Mini Card WLAN	Cle Mini Ca WWAN /mSATA	rd 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 system ²⁰ - DOS-Lic.
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	
Optical SATA disk mSATA™ SSD	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™ None	
Widescreen display Camera	15.6" (396mm) HD (1366x768) color, anti-glare, LED backlight, 220 nits, 16:9 aspect ratio, 500:1 contrast ratio 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; Max external resolution: 2048x1536 (VGA)@75Hz; 1920x1200 (HDMI)@60Hz	
Keyboard TrackPoint® Touchpad ThinkLight™	6-row, spill-resistant, multimedia Fn keys, numeric keypad TrackPoint pointing device, Internet Scroll Bar¹³ UltraNav™, wide touchpad below keyboard, Tap Zones, multi-touch None	
Dimensions ³ Weight ² Case color Case material Battery - type ³⁷ Battery - life ¹⁰	15.6W" (WxDxH): 14.96" x 9.78" x 1.15-1.33"; 380 x 248.5mm x 29.3-33.7mm 6-cell: from 5.51 lb (2.5kg); 9-cell: from 5.86 lb (2.66kg) Matte black (top), trimmed with a thin silver band (side); black bottom Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell or 9-cell 6-cell (48Whr): up to 6.2 hr; 9-cell (94Whr): up to 11.7 hr	
Chipset ExpressCard Multicard Reader Ports	Mobile Intel HM65 Express Chipset One ExpressCard/34 4-in-1 reader (MMC, SD, SDHC, SDXC) 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 WLAN ⁴ WWAN	Two PCI Express Mini Card slots 11b/g/n, PCIe Half Mini Card, ThinkPad 11b/g/n, 1x1 None	
Modem Bluetooth™	None Bluetooth 3.0 wireless	Supports ThinkVantage® technologies
Ethernet Audio support Security Security chip	Realtek® RTL8111E Gigabit Network Connection High Definition (HD) Audio, Conexant 20671 codec / stereo speakers, 1 watt x 2/ mono digital microphone, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole None	65-watt AC adapter EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
Fingerprint reader	None	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support
Limited warranty ¹²	1-year - depot repair service / service upgrades ²² available	during the warranty period12

See footnotes for more detailed information WE model(s) announced October 4, 2011 WE model(s) withdrawn effective September 2012 © Lenovo (G-GGR1-4) February 2013