



Lenovo® ThinkPad T420s



Lenovo ThinkPad T420s



Lenovo ThinkPad T420s



Lenovo ThinkPad T420s



ThinkPad triple external monitor configuration using NVIDIA's Optimus technology



Lenovo ThinkPad T420s

ThinkPad® T420s 4170 (TopSeller) - withdrawn

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Optical or battery	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Finger print reader	Blue- tooth	Intel AMT	Intel vPro	Preload
4170-35G	i5-2540M	4GBx1	14.0" HD+	720p	128G SSD	DVD±RW	Intel 6205 ²⁸	WWAN upg	Finger	Blue	iAMT	vPro	Pro 64
4170-34G	i5-2520M	2GBx1	14.0" HD+	720p	128G SSD	DVD±RW	Intel 6205	WWAN upg	Finger	Blue	iAMT	vPro	Pro 64

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

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-2520M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-2540M processor (dual-core, 2.60GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only some listed)
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	Rescue and Recovery™ Access Connections™
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Fingerprint Software (fingerprint models) Password Manager (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager ThinkVantage Toolbox
Widescreen display Camera	14.0 " (355mm) HD+ (1600x900) color , anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wider view angle, low light sensitive, fixed focus	Preloaded applications¹⁴ (only some listed) Norton™ Internet Security 2011
Graphics	Intel HD Graphics 3000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via optional cable); supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via optional cable)	(30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW)
Keyboard TrackPoint® Touchpad ThinkLight™	7 row, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.1" x 0.83–1.02"; 343mm x 230.1mm x 21.2–26.0mm 6-cell: starting at 3.68 lb (1.67kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim 6-cell (43.2Whr): up to 5.5 hr; 6-cell plus Ultrabay battery: up to 9.3 hr	
Chipset ExpressCard Smart Card Read Multicard Reader Ports PCIe Mini Card	Mobile Intel QM67 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 2.0 (one powered), one USB 3.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45) Two PCI Express Mini Card slots	
WLAN ⁴ WWAN Modem	11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable None	
Bluetooth™	Bluetooth 3.0 wireless, LED indicator	Supports ThinkVantage® technologies
Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20672 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator,	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant International Warranty Service¹7
	Power On Authentication, supports the security chip	24 hour x 7 day18 toll-free support
Limited warranty	1-year - depot repair service / service upgrades ²² available	during the warranty period ¹²

See footnotes for more detailed information WE model(s) announced February 22, 2011 WE model(s) withdrawn effective December 2012

© Lenovo (G-SN3-1) February 2013

ThinkPad® T420s 4173 - withdrawn

		Wide- screen		Dis SAT		Optical or	PCIe Mini Card	PCIe Mini Card			Finger print			obal GMF	
Type-model Processor	Memory	display	Camera	GB ⁸	rpm	battery	WLAN	WWAN/mSATA	A Carrier	Reader	reader	tooth	vPro	(P)	Preload
4173-L8G i5-2520M	4GBx1	14.0" HD+	720p	128G	SSD	DVD±RW	Intel 6205 ²⁸	WWAN upg			Finger	Blue	vPro	G	Pro 64
4173-L7G i5-2540M	4GBx1	14.0" HD+	720p	160G	SSD	DVD±RW	Intel 6205	Ericsson	selectable	Smart	Finger	Blue	vPro		Pro 64
4173-KKG i5-2540M	2GBx2	14.0" HD+	720p	128G	SSD	Blank bezel	Intel 6205	WWAN upg			Finger	Blue	vPro		Pro 64
4173-KJG i5-2520M	2GBx1	14.0" HD+	720p	128G	SSD	Blank bezel	Intel 6205	WWAN upg			Finger	Blue	vPro		Pro 64
4173-29G i5-2520M	4GBx1	14.0" HD+		320G	7200	DVD±RW	Intel 6205	WWAN upg			Finger	Blue	vPro	G	Pro 64
4173-2AG i5-2520M	4GBx1	14.0" HD+	- 720p	128G	SSD	DVD±RW	Intel 6205	WWAN upg			_	Blue	vPro	G	Pro 64
4173-2BG i5-2520M	4GBx1	14.0" HD+	720p	320G	7200	DVD±RW	Intel 6205	WWAN upg				Blue	vPro	G	Pro 64
4173-LVG i5-2520M	4GBx1	14.0" HD+	720p	160G	SSD	DVD±RW	Intel 6205	WWAN upg			Finger	Blue	vPro	G	Pro 64

- A depot repair service 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-2520M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-2540M processor (dual-core, 2.60GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	- some listed) • Rescue and Recovery™ • Access Connections™
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	Some: DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Fingerprint Software (fingerprint models) Password Manager (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager ThinkVantage Toolbox
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: HD720p resolution, wider view angle, low light sensitive, fixed focus	Preloaded applications¹⁴ (only some listed) • Norton™ Internet Security 2011
Graphics	Intel HD Graphics 3000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via optional cable); supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via optional cable)	(30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW)
Keyboard TrackPoint® Touchpad ThinkLight™	7 row, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.1" x 0.83–1.02"; 343 x 230.1mm x 21.2–26.0mm 6-cell: starting at 3.68 lb (1.67kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim 6-cell (43.2Whr): up to 5.5 hr; 6-cell plus Ultrabay battery: up to 9.3 hr	
	Mobile Intel QM67 Express Chipset One slot (ExpressCard/34) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 2.0 (one powered), one USB 3.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	
PCIe Mini Card WLAN ⁴ WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: Wireless WAN upgradable Some: Wireless WAN, Ericsson® F5521gw Mobile Broadband Module, PCIe Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS Some: User selectable, contract required with service provider	
Modem Bluetooth™	None Bluetooth 3.0 wireless, LED indicator	Supports ThinkVantage® technologies
Ethernet Intel AMT Audio support Security Security chip	Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20672 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator,	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
	Power On Authentication, supports the security chip 3-years/1-yr battery - depot repair service / service upgrades ²² available	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

ThinkPad® T420s 4173 (Optimus) - withdrawn

Type-model Processor Men	Wide- screen nory display Camera	Disk SATA a GB® rpm	Optical or battery	PCIe Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Smart Card Reader	Finger print reader	Blue- tooth	Intel vPro G	Global (G) iMP (P)	Pre- load
4173-LUG i7-2640M 4G	Bx1 14.0" HD+ 720p	320G 7200	DVD±RW	Intel 6205 ²⁸	WWAN upg	None	None	Blue	vPro	G F	Pro 64

- A depot repair service 3-year limited warranty
 Microsoft® Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i7-2640M processor (dual-core, 2.80GHz, 4MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology	Preloaded operating system ²⁰ - 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 Bay battery Ultrabay SATA disk mSATA™ SSD Widescreen display Camera Graphics	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None 14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wider view angle, low light sensitive, fixed focus NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics,	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)
Спартно	Intel HD Graphics 3000 in processor, and NVIDIA NVS™ 4200M, PCI Express® x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via optional cable); supports three independent displays; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via optional cable)	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 Corel® WinDVD® (DVD±RW)
Keyboard TrackPoint® Touchpad ThinkLight™	7 row, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.1" x 0.83–1.02"; 343 x 230.1mm x 21.2–26.0mm 6-cell: starting at 3.68 lb (1.67kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim 6-cell (43.2Whr): up to 6.1 hr; 6-cell plus Ultrabay battery: up to 10.3 hr	
Chipset ExpressCard Smart Card Read Multicard Reader Ports	Mobile Intel QM67 Express Chipset One slot (ExpressCard/34) None 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 2.0 (one powered), one USB 3.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	
PCIe Mini Card WLAN ⁴ WWAN	Two PCI Express Mini Card slots 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Wireless WAN upgradable	Supports ThinkVantage® technologies
Modem Bluetooth™ Ethernet Intel AMT Audio support Security Security chip Fingerprint reader	None Bluetooth 3.0 wireless, LED indicator Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20672 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant None 3-years/1-yr battery - depot repair service / service upgrades ²² available	90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) 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 November 1, 2011
WE model(s) withdrawn effective December 2012 © Lenovo

(G-SN3-5) February 2013

ThinkPad® T420s 4174 (Onsite) - withdrawn

		Wide- screen		Disk Optical SATA or		PCIe Mini Card	PCle Mini Card		Smart Finger Card print Bl				lobal (G) GMP			
Type-model	Processor	Memory		Camera			battery	WLAN	WWAN/mSAT	A Carrier	Reader	reader	tooth	vPro	(P)	Preload
4174-L8G	i5-2520M	4GBx1	14.0" HD+	- 720p	128G	SSD	DVD±RW	Intel 6205 ²⁸	WWAN upg			Finger	Blue	vPro	GΡ	Pro 64
4174-P5G	i5-2520M	4GBx1	14.0" HD+	- 720p	320G	7200	DVD±RW	Intel 6205	Ericsson	selectable		Finger	Blue	vPro		Pro 64
4174-NGG	i5-2520M	2GBx2	14.0" HD+	- 720p	250G :	5400	DVD±RW	Intel 6205	Ericsson	selectable	Smart	Finger	Blue	vPro		Pro 64
4174-NFG	i5-2520M	2GBx2	14.0" HD+	- 720p	250G :	5400	DVD±RW	Intel 6205	WWAN upg		Smart	Finger	Blue	vPro		Pro 64
4174-NEG	i5-2540M	4GBx1	14.0" HD+	- 720p	128G	SSD	DVD±RW	Intel 6300 ²⁸	Ericsson	selectable	Smart	Finger	Blue	vPro		Pro 64
4174-29G	i5-2520M	4GBx1	14.0" HD+	-	320G	7200	DVD±RW	Intel 6205	WWAN upg			Finger	Blue	vPro	GΡ	Pro 64
4174-2AG	i5-2520M	4GBx1	14.0" HD+	- 720p	128G	SSD	DVD±RW	Intel 6205	WWAN upg				Blue	vPro	GΡ	Pro 64
4174-2BG	i5-2520M	4GBx1	14.0" HD+	- 720p	320G	7200	DVD±RW	Intel 6205	WWAN upg				Blue	vPro	GΡ	Pro 64
4174-LVG	i5-2520M	4GBx1	14.0" HD+	- 720p	160G	SSD	DVD±RW	Intel 6205	WWAN upg			Finger	Blue	vPro	GΡ	Pro 64

- Some models are part of the Global Models Plus program with limited onsite service²⁴ 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

	• Milciosoft Office 2010 Floudct Rey Fleady (Office Rift)	
Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i5-2520M processor (dual-core, 2.50GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.20GHz), HT technology Intel Core i5-2540M processor (dual-core, 2.60GHz, 3MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.30GHz), HT technology	Preloaded operating system ²⁰ - Genuine Windows® 7 Professional 64 Ready to install applications ¹⁴ (only
Memory	8GB max ⁷ / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets	some listed) ■ Rescue and Recovery™ ■ Access Connections™
Optical Bay battery Ultrabay SATA disk mSATA™ SSD	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Fingerprint Software (fingerprint models) Password Manager (fingerprint models) ThinkVantage System Update ThinkVantage Power Manager ThinkVantage Toolbox
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio Some: HD720p resolution, wider view angle, low light sensitive, fixed focus	Preloaded applications¹⁴ (only some listed) ■ Norton™ Internet Security 2011
Graphics	Intel HD Graphics 3000 in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via optional cable); supports dual independent display; Maximum external resolution: 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via optional cable)	(30 days of virus definitions) • Adobe® Reader® • Skype™ for Windows • Windows Live™ Essentials • Microsoft Office 2010 preloaded; purchase product key to activate • Corel® WinDVD® (DVD±RW)
Keyboard TrackPoint® Touchpad ThinkLight™	7 row, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.1" x 0.83–1.02"; 343 x 230.1mm x 21.2–26.0mm 6-cell: starting at 3.68 lb (1.67kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim 6-cell (43.2Whr): up to 5.5 hr; 6-cell plus Ultrabay battery: up to 9.3 hr	
	Mobile Intel QM67 Express Chipset One slot (ExpressCard/34) Some: Smart Card reader 4-in-1 reader (MMC, SD, SDHC, SDXC) Two USB 2.0 (one powered), one USB 3.0, external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)	
PCIe Mini Card WLAN ⁴ WWAN	Two PCI Express Mini Card slots Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 Some: Wireless WAN upgradable Some: Wireless WAN, Ericsson® F5521gw Mobile Broadband Module, PCIe Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS Some: Upgradable contract required with sorvice provider	
Modem Bluetooth™ Ethernet Intel AMT	Some: User selectable, contract required with service provider None Bluetooth 3.0 wireless, LED indicator Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT)	Supports ThinkVantage® technologies
	High Definition (HD) Audio, Conexant 20672 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	65-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
Limited warranty ¹²	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

See footnotes for more detailed information

© Lenovo

(G-SN3-3) February 2013

WE model(s) announced February 22, March 1, or May 3, 2011, or January 3, 2012 WE model(s) withdrawn effective December 2012

ThinkPad® T420s 4174 (Optimus) - Onsite - withdrawn

Type-model	Processor	Memory	Wide- screen display	Camera	Disk SATA GB [®] rpm	Optical or battery	PCle Mini Card WLAN	PCIe Mini Card WWAN/mSATA	Carrier		Blue- tooth	Intel		Pre-
4174-PEG	i7-2640M	4GBx1	14.0" HD+	720p	160G SSD	DVD±RW	Intel 6300 ²⁸	Ericsson	selectable	Finger	Blue	vPro		Pro 64
4174-PPG	i7-2640M	4GBx1	14.0" HD+	720p	320G 7200	DVD±RW	Intel 6205 ²⁸	WWAN upg		•	Blue	vPro	G	Pro 64

- A limited onsite service²⁴ 3-year limited warranty
 Microsoft[®] Office 2010 Product Key Ready (O10PKR)

Positioning Processor	Premiere performance and ultraportability; two spindles Intel® Core™ i7-2640M processor (dual-core, 2.80GHz, 4MB Cache), DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology	Preloaded operating system ²⁰ - 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 Bay battery Ultrabay SATA disk mSATA™ SSD	DVD burner, 9.5mm Ultrabay slim, removable None One modular bay for interchangeable devices (right side), 9.5mm high, bottom access Some: Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high Some: Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ All: removable, upgradable, supports the second disk, Shock Mounted Hard Drive None	Rescue and Recovery™ Access Connections™ Fingerprint Software (fingerprint models) Password Manager (fingerprint models) ThinkVantage System Update
Widescreen display Camera	14.0" (355mm) HD+ (1600x900) color, anti-glare, LED backlight, 250 nits, 16:9 aspect ratio, 300:1 contrast ratio HD720p resolution, wider view angle, low light sensitive, fixed focus	ThinkVantage Power Manager ThinkVantage Toolbox Preloaded applications ¹⁴ (only some
Graphics	NVIDIA® Optimus™ technology, auto-switch between discrete and integrated graphics, Intel HD Graphics 3000 in processor, and NVIDIA NVS™ 4200M, PCI Express® x16, 1GB memory, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort (supports single-link DVI-D via optional cable); supports three independent displays; Maximum external resolution: 2560x1600 (DisplayPort) @60Hz; 2048x1536 (VGA) @75Hz; 1920x1200 @60Hz (single-link DVI-D via optional cable)	Isted) 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
Keyboard TrackPoint® Touchpad ThinkLight™	7 row, 89-key, ThinkVantage button, spill-resistant, multimedia Fn keys TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™, wide touchpad below keyboard, Tap Zones, scrolling regions label, multi-touch Illuminates the keyboard to improve visibility in low-light conditions	 Corel® WinDVD® (DVϱRW) Corel Burn.Now™ Lenovo Edition (DVD±RW) Corel DVD MovieFactory® Lenovo Edition (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.0W" (WxDxH): 13.5" x 9.1" x 0.83–1.02"; 343 x 230.1mm x 21.2–26.0mm 6-cell: starting at 3.68 lb (1.67kg) Display cover: Hybrid Carbon-fiber reinforced plastic; Bottom: Magnesium alloy Lithium Ion 6-cell, supports unique 2nd battery in Ultrabay Slim 6-cell (43.2Whr): up to 6.1 hr; 6-cell plus Ultrabay battery: up to 10.3 hr	
Chipset ExpressCard Smart Card Read Multicard Reader Ports		
PCIe Mini Card WLAN ⁴ WWAN	Two PCI Express Mini Card slots Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino® Advanced-N 6205, 2x2 Some: 11a/b/g/n, PCIe Half Mini Card, Intel Centrino Ultimate-N 6300, 3x3 Some: Wireless WAN upgradable Some: Wireless WAN, Ericsson® F5521gw Mobile Broadband Module, PCIe Mini Card, GPRS/WCDMA/HSPA/HSPA+, GPS	
	Some: User selectable, contract required with service provider None Bluetooth 3.0 wireless, LED indicator Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1 Intel Active Management Technology (iAMT) High Definition (HD) Audio, Conexant 20672 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack Power-on password, hard disk password, supervisor password, security keyhole Trusted Platform Module, TCG 1.2-compliant Some: UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip	Supports ThinkVantage® technologies 90-watt AC adapter ThinkPad Roll Cage (one-piece magnesium frame) EPEAT™ Gold rating ENERGY STAR® 5.0-compliant RoHS-compliant
Limited warranty ¹²	3-years /1-year battery, limited onsite service ²⁴ , 8 am - 5 pm, Mon - Fri coverage excluding public and national holidays. Calls received after 3 pm will require an additional next business day for service dispatch / service upgrades available	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free support during the warranty period ¹²

WE model(s) withdrawn effective December 2012