ThinkPad W550s Platform Specifications

Processor	5th Generation Intel® Core™ i5 / i7 Processor						
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics

	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Speed	Processor Graphics
	i5-5300U			2.3 GHz	2.9 GHz	3MB		
	i7-5500U	2	4	2.4 GHz	3 GHz	4MB	DDR3L-1600	Intel HD Graphics 5500
	i7-5600U			2.6 GHz	3.2 GHz	4MB		

Graphics	Intel HD Graphics 5500 in processor and NVIDIA Quadro® K620M, 2GB memory; supports external analog monitor via VGA and digital monitor via Mini DisplayPort; supports three independent displays; Max resolution: 3840x2160@60Hz (DP via mDP cable); 2560x1600@60Hz (VGA)
Chipset	Intel SoC (System on Chip) platform
Memory	32GB max[7] / PC3-12800 1600MHz DDR3L, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Display	*Some:* 15.6" (396mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 or 500:1 contrast ratio *Some:* 15.5" (394mm) 3K (2880x1620), anti-glare, LED backlight, 350 nits, 16:9 aspect ratio, 1000:1 contrast ratio, IPS
Multi-touch *(opt)*	Capacitive-type multi-touch, supports 10-finger gesture, 315 nits
Storage	*Some:* SSD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable *Some:* HDD / SATA 6.0Gb/s, 2.5" wide, 7mm high, removable, upgradable, Shock Mounted Hard Drive, Active Protection System™ *Some:* SSHD with 8GB NAND flash memory
M.2 SSD *(opt)*	Single-sided M.2 SSD, via M.2 card slot
Optical	None
Ethernet	*Non-vPro model:* Intel Ethernet Connection I218-V (Clarkville) *vPro model:* Intel Ethernet Connection I218-LM (Clarkville)
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
WLAN[4]	*One of the following, configurable by model:* • 11b/g/n, ThinkPad 11b/g/n, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card • 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card • 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card
WWAN *(optional)*	*One of the following, configurable by model:* • Wireless WAN upgradable • Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card • Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card
SIM card *(opt)*	AT&T® or Verizon® LTE (4G), contract required with service provider
Dimensions[3]	15.6" (WxDxH): 14.98" x 10.17" x 0.88"; 380.6mm x 258.2mm x 22.45mm 15.6" Touch (WxDxH): 14.98" x 10.17" x 0.92"; 380.6mm x 258.2mm x 23.30mm

Weight[2]	Models	No + 6-cell	3-cell + 3-cell	3-cell + 6-cell
	Non-touch	5.01 lb / 2.27 kg	4.78 lb / 2.17 kg	5.12 lb / 2.32 kg
	Multi-touch	-	5.09 lb / 2.31 kg	5.43 lb / 2.46 kg

Case material	*Display cover:* Glass-Fiber Reinforced Plastic (non-touch model) or Carbon-Fiber Reinforced Plastic (multi-touch model); *Bottom:* Glass-Fiber Reinforced Plastic

Smart card reader	*Optional:* Smart card reader
Media reader	4-in-1 reader (MMC, SD, SDHC, SDXC)
Ports	Three USB 3.0 (one Always On), VGA, MiniDP, Ethernet (RJ-45), Dock connector
Camera	HD720p resolution, low light sensitive, fixed focus
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1W x 2 / dual array microphone, combo audio/microphone jack
Keyboard	6-row, spill-resistant, multimedia Fn keys, numeric keypad, optional LED backlight
UltraNav™	TrackPoint® pointing device and buttonless Mylar surface touchpad, multi-touch
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
ThinkEngine	Delivers improved thermal and power efficiency, up to 30 day standby, faster resume time, enhanced security, as well as anti-tampering measures
vPro *(optional)*	Intel vPro Technology
Fingerprint reader	*Optional:* Fingerprint reader on the palm rest, swipe sensor
Internal battery	*Optional:* Integrated Li-Polymer 3-cell *(44Wh)*
External battery	Li-Ion or Li-Polymer 3-cell *(23Wh)* or Li-Ion 6-cell *(48Wh or 72Wh)*

Max battery life[10]	Models	3-cell + 3-cell	3-cell + 6-cell 48Wh	3-cell + 6-cell 72Wh
	Battery life	12.7 hr	17.3 hr	21.8 hr

AC adapter	65W Slim or 65W AC adapter
Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • ThinkVantage Product Recovery • Rescue and Recovery™ • ThinkVantage System Update • PC Device Stage • Adobe® Reader® • Microsoft® Office preloaded; purchase a product key to activate • Norton™ Internet Security (30 days of virus definitions) *For ISV certifications, please visit* www.lenovo.com/support/ISV *Some:* Windows 8.1 64-bit *Some:* Windows 8.1 Pro 64-bit *Some:* Windows 10 Pro 64 • Lenovo Solution Center • Lenovo SHAREit • Lenovo REACHit • Lenovo Companion • Microsoft Office preloaded; purchase a product key to activate • Norton Internet Security (30 days of virus definitions, Win8 w/o i5/i7 model) • McAfee® LiveSafe™ (30-day trial, Win8 i5/i7 and Win10 model)
Limited warranty[12]	*One of the following, configurable by model:* • 1-year depot repair service • 3-year/1-yr battery depot repair service • 3-year/1-yr battery limited onsite service[24] • 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)
Mil-Spec test	MIL-STD-810G military certification
Environment	EPEAT™ Gold (US) or EPEAT Silver (WE); ENERGY STAR® 6.1; GREENGUARD®; RoHS-compliant

Model	20E20014++
Product	W550s
Region	WE
Machine Type	20E2
TopSeller	TopSeller
Processor	i7-5500U (2C, 2.4 / 3.0GHz, 4MB, 1600MHz)
vPro	No
Graphics	NVIDIA Quadro K620M, 2GB memory
Memory	8GBx2
Display	15.5" 3K (2880x1620) IPS
Multi-touch	10-point multi-touch
Storage	512GB SSD
M.2 SSD	None
Optical	None
WLAN &Bluetooth	Intel 7265 ac + BT4.0
WWAN	WWAN upgradable
SIM Card	None
Smart Card Reader	None
Camera	720p
Backlit Keyboard	Backlit Keyboard
Numeric Keypad	Numeric Keypad
Fingerprint Reader	Fingerprint Reader
Battery Cells (internal + external)	3-cell (44Wh) + 6-cell (72wh)
Power Adapter (watt)	65W
Preload	Windows 8.1 Pro 64-bit
Base Warranty	3-year onsite
Global	No
Ann Date (mm/yy)	01/15