



Lenovo® ThinkPad X1 Carbon (3<sup>rd</sup> Gen)



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# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	5th Generation Intel® Core™ i5 / i7 Processor							Media reader	None			
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector		
	i5-5200U	2	4	2.2 GHz	2.7 GHz	3MB	DDR3L-1600	Intel HD Graphics 5500	Monitor cable	<i>Optional:</i> Mini DisplayPort to VGA Monitor Cable		
	i5-5300U			2.3 GHz	2.9 GHz	3MB						
	i7-5500U			2.4 GHz	3 GHz	4MB						
i7-5600U	2.6 GHz			3.2 GHz	4MB							
Camera	HD720p resolution, low light sensitive, fixed focus, gesture input											
Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack											
Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys											
UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch											
Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch											
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	Fingerprint reader on the keyboard bezel, swipe sensor											
Graphics	Intel HD Graphics 5500 in processor, external digital monitor support via Mini DisplayPort or HDMI™ (supports VGA analog monitor via Mini DisplayPort to VGA Monitor Cable); supports three independent displays; Max resolution: 3840x2160 (Mini DisplayPort) @60Hz; 4096x2304 (HDMI) @24Hz											
Chipset	Intel SoC (System on Chip) platform											
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets											
Display	<i>Some:</i> 14.0" (355mm) FHD (1920x1080), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 400:1 contrast ratio <i>Some:</i> 14.0" (355mm) WQHD (2560x1440), anti-glare, LED backlight, 300 nits, 16:9 aspect ratio, 700:1 contrast ratio, IPS, 170° viewing angle											
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits											
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)											
Optical	None											
Ethernet	Gigabit Ethernet via Ethernet extension cable											
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter											
WLAN <sup>4</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>• 11b/g/n, Intel Wireless-N 7265, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card</li> <li>• 11a/b/g/n, Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li> <li>• 11ac, Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT adapter, M.2 card</li> </ul>											
WWAN (optional)	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>• Wireless WAN upgradable</li> <li>• Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card</li> <li>• Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card</li> </ul>											
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider											
Dimensions <sup>3</sup>	<b>WQHD (WxDxH):</b> 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm <b>FHD (WxDxH):</b> 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm <b>WQHD Touch (WxDxH):</b> 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm											
Weight <sup>2</sup>	<i>Models</i>			<i>FHD</i>			<i>WQHD</i>			<i>WQHD Touch</i>		
	<i>Weight</i>			2.996 lb / 1.359 kg			2.877 lb / 1.305 kg			3.175 lb / 1.44 kg		
Case material	<i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum											
Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery											
Max battery life <sup>10</sup>	<i>Models</i>			<i>FHD</i>			<i>WQHD</i>			<i>WQHD Touch</i>		
	<i>Battery life</i>			10.9 hr			9.9 hr			9.9 hr		
	<i>AC adapter</i>			<i>45W</i>			<i>65W Slim</i>			<i>65W</i>		
	<i>Charge to 80%</i>			1.1hr			55min			55min		
<i>Charge to 100%</i>			2.5hr			2.3hr			2.3hr			
AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter											
RapidCharge												
Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 <ul style="list-style-type: none"> <li>• Lenovo Solution Center</li> <li>• Lenovo SHAREit</li> <li>• Lenovo SHAREit</li> <li>• ThinkVantage Product Recovery</li> <li>• Rescue and Recovery™</li> <li>• ThinkVantage System Update</li> <li>• PC Device Stage</li> <li>• Adobe® Reader®</li> <li>• Microsoft® Office preloaded; purchase a product key to activate</li> <li>• Norton™ Internet Security (30 days of virus definitions)</li> </ul>											
Limited warranty <sup>12</sup>	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> <li>• 1-year depot repair service</li> <li>• 3-year/1-yr battery depot repair service</li> <li>• 3-year/1-yr battery limited onsite service<sup>24</sup></li> <li>• 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery)</li> </ul>											
Mil-Spec test	MIL-STD-810G military certification											
Environment	EPEAT™ Gold; ENERGY STAR® 6.1; RoHS-compliant											

# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) 20BS (TS)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BS002WUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	128G SSD	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20BS0034US	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	1-depot	No	01/15
20BS002VUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0037US	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS003AUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	128G SSD	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0033US	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS003CUS	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS002YUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0032US	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0039US	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS002TUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS002UUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS0031US	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS003BUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS003DUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	01/15
20BS006SUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	128G SSD	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	05/15
20BS006TUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD PCIe	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	05/15
20BS006UUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	05/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor					Dimensions <sup>3</sup> WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB		DDR3L-1600
	i5-5300U		2.3 GHz	2.9 GHz	3MB		
	i7-5500U		2.4 GHz	3 GHz	4MB		
i7-5600U	2.6 GHz		3.2 GHz	4MB			
Weight <sup>2</sup>	Models		FHD	WQHD	WQHD Touch		
	Weight		2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg		
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum						
Graphics	Intel HD Graphics 5500						
Chipset	Intel SoC (System on Chip) platform						
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)						
Optical	None						
Ethernet	Gigabit Ethernet via Ethernet extension cable						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						
WLAN <sup>4</sup>	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: 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						
Media reader	None						
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector						
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable						
Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery						
Max battery life <sup>10</sup>	Models		FHD	WQHD	WQHD Touch		
	Battery life		10.9 hr	9.9 hr	9.9 hr		
AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter						
RapidCharge	AC adapter		45W	65W Slim	65W		
	Charge to 80%		1.1hr	55min	55min		
	Charge to 100%		2.5hr	2.3hr	2.3hr		
Preload	Win8.1 / 10 DG Win7:		Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64				
	Win8.1 64:		Windows 8.1 64-bit				
	Win8.1 P64:		Windows 8.1 Pro 64-bit				
	Win10 P64:		Windows 10 Pro 64				
Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID						

See footnotes for more detailed information  
US model(s) withdrawn effective April 2015

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# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) 20BS (TS) - II

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BS009TUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	07/15
20BS009VUS	i5-5200U	No	HD 5500	8GBx1	14" FHD	No	128G SSD	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	07/15
20BS009WUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	07/15
20BS009UUS	i5-5200U	No	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	07/15
20BS00BGUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	08/15
20BS00BHUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	08/15
20BS00BKUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	08/15
20BS00B9US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	MT	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	09/15
20BS00B7US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	09/15
20BS00B8US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 DG Win7	3-depot	No	09/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor					Dimensions <sup>3</sup> WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm												
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types											
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB		DDR3L-1600											
	i5-5300U		2.3 GHz	2.9 GHz	3MB													
	i7-5500U		2.4 GHz	3 GHz	4MB													
i7-5600U	2.6 GHz		3.2 GHz	4MB														
Weight <sup>2</sup>	Models	FHD	WQHD	WQHD Touch	Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg										
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum																	
Graphics	Intel HD Graphics 5500					Camera	HD720p resolution, low light sensitive, fixed focus, gesture input											
Chipset	Intel SoC (System on Chip) platform					Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack											
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets					Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys											
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS					UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch											
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits					Security	Power-on / hard disk / supervisor password, security keyhole, reset switch											
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)					Security chip	Trusted Platform Module, TCG 1.2-compliant											
Optical	None					vPro (optional)	Intel vPro Technology											
Ethernet	Gigabit Ethernet via Ethernet extension cable					Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor											
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery											
WLAN <sup>4</sup>	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card					Max battery life <sup>10</sup>	Models	FHD	WQHD	WQHD Touch	Battery life	10.9 hr	9.9 hr	9.9 hr				
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card					AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter											
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider					RapidCharge	AC adapter	45W	65W Slim	65W	Charge to 80%	1.1hr	55min	55min	Charge to 100%	2.5hr	2.3hr	2.3hr
Media reader	None					Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64											
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector						Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64											
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable					Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID												

See footnotes for more detailed information

(MQ2-6) © Lenovo

# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) 20BS (TS) - Win8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BS002XUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	1-depot	No	01/15
20BS0030US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS0036US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS003FUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS0035US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS0038US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS003EUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BS003GUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm												
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types													
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600													
	i5-5300U		2.3 GHz	2.9 GHz	3MB														
	i7-5500U		2.4 GHz	3 GHz	4MB														
i7-5600U	2.6 GHz		3.2 GHz	4MB															
Weight <sup>2</sup>	Models	FHD	WQHD	WQHD Touch	Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg											
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum																		
Graphics	Intel HD Graphics 5500						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input											
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack											
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys											
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch											
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch											
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)						Security chip	Trusted Platform Module, TCG 1.2-compliant											
Optical	None						vPro (optional)	Intel vPro Technology											
Ethernet	Gigabit Ethernet via Ethernet extension cable						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor											
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery											
WLAN <sup>4</sup>	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						Max battery life <sup>10</sup>	Models	FHD	WQHD	WQHD Touch	Battery life	10.9 hr	9.9 hr	9.9 hr				
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter											
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						RapidCharge	AC adapter	45W	65W Slim	65W	Charge to 80%	1.1hr	55min	55min	Charge to 100%	2.5hr	2.3hr	2.3hr
Media reader	None						Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64											
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector							Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64											
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable						Limited warranty <sup>12</sup> 1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID												

See footnotes for more detailed information

(MQ2-2) © Lenovo

# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) 20BS (TS) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BS009XUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	07/15
20BS009YUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	07/15
20BS00A0US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	07/15
20BS00BJUS	i5-5200U	No	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	08/15
20BS00BLUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	08/15
20BS00BMUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	08/15
20BS00B5US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	MT	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	09/15
20BS00BAUS	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	MT	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	09/15
20BS00B4US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	09/15
20BS00B6US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-depot	No	09/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor					Dimensions <sup>3</sup> WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm											
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache												
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB												
	i5-5300U		2.3 GHz	2.9 GHz	3MB												
	i7-5500U		2.4 GHz	3 GHz	4MB												
i7-5600U	2.6 GHz		3.2 GHz	4MB													
Memory Types	DDR3L-1600																
Weight <sup>2</sup>	<table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>2.996 lb / 1.359 kg</td> <td>2.877 lb / 1.305 kg</td> <td>3.175 lb / 1.44 kg</td> </tr> </tbody> </table>					Models	FHD	WQHD	WQHD Touch	Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg				
Models	FHD	WQHD	WQHD Touch														
Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg														
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum																
Graphics	Intel HD Graphics 5500																
Chipset	Intel SoC (System on Chip) platform																
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets																
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS																
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits																
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)																
Optical	None																
Ethernet	Gigabit Ethernet via Ethernet extension cable																
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																
WLAN <sup>4</sup>	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card																
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: 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																
Media reader	None																
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector																
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable																
Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery																
Max battery life <sup>10</sup>	<table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.9 hr</td> <td>9.9 hr</td> <td>9.9 hr</td> </tr> </tbody> </table>					Models	FHD	WQHD	WQHD Touch	Battery life	10.9 hr	9.9 hr	9.9 hr				
Models	FHD	WQHD	WQHD Touch														
Battery life	10.9 hr	9.9 hr	9.9 hr														
AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter																
RapidCharge	<table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>1.1hr</td> <td>55min</td> <td>55min</td> </tr> <tr> <td>Charge to 100%</td> <td>2.5hr</td> <td>2.3hr</td> <td>2.3hr</td> </tr> </tbody> </table>					AC adapter	45W	65W Slim	65W	Charge to 80%	1.1hr	55min	55min	Charge to 100%	2.5hr	2.3hr	2.3hr
AC adapter	45W	65W Slim	65W														
Charge to 80%	1.1hr	55min	55min														
Charge to 100%	2.5hr	2.3hr	2.3hr														
Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64																
Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID																

See footnotes for more detailed information

(MQ2-7) © Lenovo

# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) 20BT

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BT005UUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	mDP-VGA	720p	Backlit	Finger	8(50wh)	65W	Win8.1 DG Win7	3-depot	No	05/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup> WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm												
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types													
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600													
	i5-5300U		2.3 GHz	2.9 GHz	3MB														
	i7-5500U		2.4 GHz	3 GHz	4MB														
i7-5600U	2.6 GHz		3.2 GHz	4MB															
Weight <sup>2</sup>	Models	FHD	WQHD	WQHD Touch	Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg											
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum																		
Graphics	Intel HD Graphics 5500						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input											
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack											
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys											
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch											
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch											
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)						Security chip	Trusted Platform Module, TCG 1.2-compliant											
Optical	None						vPro (optional)	Intel vPro Technology											
Ethernet	Gigabit Ethernet via Ethernet extension cable						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor											
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery											
WLAN <sup>4</sup>	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						Max battery life <sup>10</sup>	Models	FHD	WQHD	WQHD Touch	Battery life	10.9 hr	9.9 hr	9.9 hr				
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter											
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						RapidCharge	AC adapter	45W	65W Slim	65W	Charge to 80%	1.1hr	55min	55min	Charge to 100%	2.5hr	2.3hr	2.3hr
Media reader	None						Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64											
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector							Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64											
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OIC (MQ2-5) © Lenovo											

See footnotes for more detailed information

# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) 20BT (Win8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BT000AUS	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	Yes	01/15
20BT000FUS	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	Yes	01/15
20BT000HUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	Yes	01/15
20BT000QUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT000UUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT000WUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT0017US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT0019US	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT003EUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT003JUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT000CUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	Yes	01/15
20BT000GUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	Yes	01/15
20BT000KUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT000XUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT0011US	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT0012US	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT0014US	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT0016US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15
20BT003MUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	Yes	01/15
20BT003QUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-depot	No	01/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor	Dimensions <sup>3</sup>	WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm																																		
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Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types																																
i5-5200U	2	2.2 GHz	2.7 GHz	3MB	DDR3L-1600																																
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i7-5500U		2.4 GHz	3 GHz	4MB																																	
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Models	FHD	WQHD	WQHD Touch																																		
Weight	2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg																																		
Graphics	Intel HD Graphics 5500	Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum																																		
Chipset	Intel SoC (System on Chip) platform	Camera	HD720p resolution, low light sensitive, fixed focus, gesture input																																		
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets	Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack																																		
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS	Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys																																		
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits	UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch																																		
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)	Security	Power-on / hard disk / supervisor password, security keyhole, reset switch																																		
Optical	None	Security chip	Trusted Platform Module, TCG 1.2-compliant																																		
Ethernet	Gigabit Ethernet via Ethernet extension cable	vPro (optional)	Intel vPro Technology																																		
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor																																		
WLAN <sup>4</sup>	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card	Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery																																		
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card	Max battery life <sup>10</sup>	<table border="1"> <thead> <tr> <th>Models</th> <th>FHD</th> <th>WQHD</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Battery life</td> <td>10.9 hr</td> <td>9.9 hr</td> <td>9.9 hr</td> </tr> </tbody> </table>			Models	FHD	WQHD	WQHD Touch	Battery life	10.9 hr	9.9 hr	9.9 hr																								
Models	FHD	WQHD	WQHD Touch																																		
Battery life	10.9 hr	9.9 hr	9.9 hr																																		
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider	AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter																																		
Media reader	None	RapidCharge	<table border="1"> <thead> <tr> <th>AC adapter</th> <th>45W</th> <th>65W Slim</th> <th>65W</th> </tr> </thead> <tbody> <tr> <td>Charge to 80%</td> <td>1.1hr</td> <td>55min</td> <td>55min</td> </tr> <tr> <td>Charge to 100%</td> <td>2.5hr</td> <td>2.3hr</td> <td>2.3hr</td> </tr> </tbody> </table>			AC adapter	45W	65W Slim	65W	Charge to 80%	1.1hr	55min	55min	Charge to 100%	2.5hr	2.3hr	2.3hr																				
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Charge to 80%	1.1hr	55min	55min																																		
Charge to 100%	2.5hr	2.3hr	2.3hr																																		
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector	Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64-bit Win8.1 P64: Windows 8.1 64-bit Win10 P64: Windows 8.1 Pro 64-bit Windows 10 Pro 64																																		
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable	Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID																																		

See footnotes for more detailed information  
US model(s) withdrawn effective April 2015



# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) 20BT (Onsite) - Win8

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Fingerprint reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BT000JUS	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	180G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	Yes	01/15
20BT003XUS	i5-5300U	vPro	HD 5500	4GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	Yes	01/15
20BT000LUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000MUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000NUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000PUS	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000SUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT0010US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT0018US	i5-5300U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT003VUS	i5-5300U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	Yes	01/15
20BT000BUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	Yes	01/15
20BT000DUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	Yes	01/15
20BT000EUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	Yes	01/15
20BT000RUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000TUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000VUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	256G SSD Opal2	7265 ac+BT	EM7345	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT000YUS	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT0013US	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT0015US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	360G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15
20BT003WUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	240G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win8.1 P64	3-onsite	No	01/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor						Dimensions <sup>3</sup>	WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm				
	Processor # of Cores Base Frequency Max Turbo Frequency Cache Memory Types							Weight <sup>2</sup>	FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm			
	i5-5200U 2 2.2 GHz 2.7 GHz 3MB DDR3L-1600								WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm			
	i5-5300U 2.3 GHz 2.9 GHz 3MB								Models FHD WQHD WQHD Touch			
	i7-5500U 2.4 GHz 3 GHz 4MB								Weight 2.996 lb / 1.359 kg 2.877 lb / 1.305 kg 3.175 lb / 1.44 kg			
i7-5600U 2.6 GHz 3.2 GHz 4MB						Case material Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum						
Graphics	Intel HD Graphics 5500						Camera	HD720p resolution, low light sensitive, fixed focus, gesture input				
Chipset	Intel SoC (System on Chip) platform						Audio support	HD Audio, Realtek® ALC3232 codec / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack				
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						Keyboard	6-row, LED backlit, spill-resistant, multimedia Fn keys				
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						UltraNav™	TrackPoint® pointing device and buttonless glass surface touchpad, multi-touch				
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						Security	Power-on / hard disk / supervisor password, security keyhole, reset switch				
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)						Security chip	Trusted Platform Module, TCG 1.2-compliant				
Optical	None						vPro (optional)	Intel vPro Technology				
Ethernet	Gigabit Ethernet via Ethernet extension cable						Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor				
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery				
WLAN <sup>4</sup>	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						Max battery life <sup>10</sup>	Models FHD WQHD WQHD Touch Battery life 10.9 hr 9.9 hr 9.9 hr				
WWAN (optional)	Upg: Wireless WAN upgradable N5321: Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card EM7345: Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card						AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter				
SIM card (opt)	AT&T® or Verizon® LTE (4G), contract required with service provider						RapidCharge	AC adapter 45W 65W Slim 65W Charge to 80% 1.1hr 55min 55min Charge to 100% 2.5hr 2.3hr 2.3hr				
Media reader	None						Preload	Win8.1 / 10 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64 Win8.1 P64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit Win10 P64: Windows 10 Pro 64				
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector						Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID				
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable											

See footnotes for more detailed information  
US model(s) withdrawn effective April 2015

# ThinkPad X1 Carbon (3<sup>rd</sup> Gen) 20BT (Onsite) - Win10

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit key-board	Finger-print reader	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20BT007YUS	i7-5600U	vPro	HD 5500	8GBx1	14" FHD	No	128G SSD	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-onsite	Yes	07/15
20BT0081US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	MT	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-onsite	Yes	07/15
20BT0080US	i7-5600U	vPro	HD 5500	8GBx1	14" WQHD IPS	No	256G SSD Opal2	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-onsite	Yes	07/15
20BT0087US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	MT	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-onsite	Yes	09/15
20BT0085US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	256G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-onsite	Yes	09/15
20BT0086US	i7-5600U	vPro	HD 5500	16GBx1	14" WQHD IPS	No	512G SSD PCIe	7265 ac+BT	Upg	None	None	720p	Backlit	Finger	8(50wh)	65W	Win10 P64	3-onsite	Yes	09/15

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(3rd Gen\) Platform Specifications sheet](#)

Processor	5th Generation Intel® Core™ i5 / i7 Processor					Dimensions <sup>3</sup> WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm FHD (WxDxH): 13.03" x 8.93" x 0.71"; 331.0mm x 226.8mm x 18.16mm WQHD Touch (WxDxH): 13.03" x 8.94" x 0.73"; 331.0mm x 227.1mm x 18.46mm	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache		Memory Types
	i5-5200U	2	2.2 GHz	2.7 GHz	3MB		DDR3L-1600
	i5-5300U		2.3 GHz	2.9 GHz	3MB		
	i7-5500U		2.4 GHz	3 GHz	4MB		
	i7-5600U		2.6 GHz	3.2 GHz	4MB		
Weight <sup>2</sup>	Models	FHD	WQHD	WQHD Touch	Weight		
		2.996 lb / 1.359 kg	2.877 lb / 1.305 kg	3.175 lb / 1.44 kg			
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum						
Graphics	Intel HD Graphics 5500						
Chipset	Intel SoC (System on Chip) platform						
Memory	4GB, 8GB, or 16GB / PC3-12800 1600MHz DDR3L / soldered to systemboard, no sockets						
Display	Some: 14.0" (355mm) FHD (1920x1080), 300 nits, 400:1 contrast ratio Some: 14.0" (355mm) WQHD (2560x1440), 300 nits, 700:1 contrast ratio, IPS						
Multi-touch (opt)	Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						
Storage	M.2 SSD / PCIe 2.0 x4 or SATA (e.g. xxxG SSD PCIe or xxxG SSD)						
Optical	None						
Ethernet	Gigabit Ethernet via Ethernet extension cable						
Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter						
WLAN <sup>4</sup>	7265 b/g/n+BT: Intel Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 a/b/g/n+BT: Intel Dual Band Wireless-N 7265, 2x2, Wi-Fi + BT, M.2 card 7265 ac+BT: Intel Dual Band Wireless-AC 7265, 2x2, Wi-Fi + BT, M.2 card						
WWAN (optional)	Upg:	Wireless WAN upgradable					
	N5321:	Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card					
	EM7345:	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						
Media reader	None						
Ports	Two USB 3.0 (one Always On), Mini DisplayPort, HDMI, Ethernet extension connector, Lenovo OneLink connector						
Monitor cable	Optional: Mini DisplayPort to VGA Monitor Cable						
Battery type	Integrated Lithium Polymer 8-cell (50Wh) RapidCharge battery						
Max battery life <sup>10</sup>	Models	FHD	WQHD	WQHD Touch	Battery life		
		10.9 hr	9.9 hr	9.9 hr			
AC adapter	45W AC adapter, 65W Slim AC adapter, or 65W AC adapter						
RapidCharge	AC adapter	45W	65W Slim	65W			
	Charge to 80%	1.1hr	55min	55min			
	Charge to 100%	2.5hr	2.3hr	2.3hr			
Preload	Win8.1 / 10 DG Win7:	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit or Windows 10 Pro 64					
	Win8.1 64:	Windows 8.1 64-bit					
	Win8.1 P64:	Windows 8.1 Pro 64-bit					
	Win10 P64:	Windows 10 Pro 64					
Limited warranty <sup>12</sup>	1-year depot / 3-year (1-yr battery) depot / 3-year (1-year battery) onsite / 3-year (1-year battery) onsite, OID						

See footnotes for more detailed information

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