



Lenovo® ThinkPad X1 Carbon (2nd Gen)



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Lenovo ThinkPad X1 Carbon (2nd Gen)

ThinkPad X1 Carbon (2nd Gen) Platform Specifications

Product Specifications Reference (PSREF)

Processor	4th Generation Intel® Core™ i5 / i7 Processor								Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack	
	Processor Number	# of Cores	# of Threads	Base Frequency	Max Turbo Frequency	Cache	Memory Types	Processor Graphics	WLAN ⁴	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Intel Wireless-N 7260, 2x2, Wi-Fi + Bluetooth combo adapter, M.2 card Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT combo adapter, M.2 card 	
	i5-4200U	2	4	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	Intel HD Graphics 4400	WWAN (optional)	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> Wireless WAN upgradable Wireless WAN, Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS, M.2 card (US models) Wireless WAN, Ericsson® N5321, HSPA+ 21Mbps/GSM/GPRS/EDGE, GPS, M.2 card (WE models) Wireless WAN, Sierra Wireless EM7345, Intel 4G LTE/HSPA/GSM/GPRS/EDGE, GPS, M.2 card (WE models) 	
	i5-4210U			1.7 GHz	2.7 GHz	3MB					
	i5-4300U			1.9 GHz	2.9 GHz	3MB					
	i7-4600U			2.1 GHz	3.3 GHz	4MB					
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets										
Optical Storage	None M.2 Solid State Drive (SSD)										
Widescreen display	<i>Some:</i> 14.0" (355mm) HD+ (1600x900) , anti-glare, LED backlight, 250 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	<i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits										
Camera	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input										
Light sensor	Ambient Light Sensor (Windows 8.1 64-bit only)										
Graphics	Intel HD Graphics 4400 or 5000 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; <i>Max resolution:</i> 3840x2160 (Mini DisplayPort)@30Hz; 2880x1620 (HDMI)@60Hz										
Keyboard	Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit UltraNav™ TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch										
ThinkLight™	None										
Dimensions ³	WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm HD+ (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										
Weight ²	Models	WQHD		HD+		WQHD Touch					
	Weight	2.82 lb / 1.28kg		2.96 lb / 1.34kg		3.15 lb / 1.43kg					
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 (45Wh) RapidCharge battery										
Max battery life ¹⁰	<i>Integrated battery:</i> up to 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%	1.0hr		50min		50min					
	Charge to 100%	2.3hr		2.1hr		2.1hr					
Chipset	Intel SoC (System on Chip) platform										
Smart card reader	None										
Media reader	None										
Ports	Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)										
Monitor Cable	<i>Some:</i> Mini DisplayPort to VGA Monitor Cable										
	Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter									
	Ethernet	Ethernet Extension cable									
	NFC	<i>Optional:</i> Near Field Communication									
	Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch									
	Security chip	Trusted Platform Module, TCG 1.2-compliant									
	vPro (optional)	Intel vPro Technology									
	Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor									
	Limited warranty ¹²	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> 1-year depot repair service 3-year/1-yr battery depot repair service 3-year/1-yr battery limited onsite service²⁴ 3-year/1-yr battery limited onsite service, OID (Onsite International Delivery) 									
	Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit					<i>Some:</i> Windows 8.1 64-bit <i>Some:</i> Windows 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center Lenovo Support Lenovo Companion ThinkVantage System Update Hightail - Metro PC Device Stage AccuWeather Amazon Kindle Nitro Pro Rara Streaming Norton Studio Microsoft Office preloaded; purchase a product key to activate Norton Internet Security (30 days of virus definitions) 				
	Mil-Spec test	MIL-STD-810G military certification									
	Environment	EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant									

ThinkPad X1 Carbon (2nd Gen) 20A7 (TS)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (soldered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit keyboard	Fingerprint reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20A7002FUS	i5-4200U	No	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002HUS	i5-4200U	No	HD 4400	4GBx1	14" HD+	No	256G SSD eDrive	7260 b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7007GUS	i5-4210U	No	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	05/14
20A7002JUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002NUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002YUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A70031US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002LUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A70033US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A70094US	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	07/14
20A7002QUS	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002SUS	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002UUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A7002WUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	01/14
20A70096US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 DG Win7	3-depot	No	07/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor					Keyboard	Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™	TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch				
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None				
	i5-4210U		1.7 GHz	2.7 GHz	3MB		Chipset	Intel SoC (System on Chip) platform				
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	None				
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	None				
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets					Ports	Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)					
Optical Storage	None M.2 Solid State Drive (SSD)					Monitor Cable	Some: Mini DisplayPort to VGA Monitor Cable					
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio					WLAN ⁴	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card					
Multi-touch	Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS					WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS					
Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits					SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider					
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input					Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					
Graphics	Intel HD Graphics 4400 or 5000					Ethernet	Ethernet Extension cable Optional: Near Field Communication					
Dimensions ³	WQHD (WxDxH):		13.03" x 8.92" x 0.70";	331.0mm x 226.5mm x 17.72mm		Security	Power-on / hard disk / supervisor password, security keyhole, reset switch					
	HD+ (WxDxH):		13.03" x 8.93" x 0.71";	331.0mm x 226.8mm x 18.16mm		Security chip	Trusted Platform Module, TCG 1.2-compliant					
	WQHD Touch (WxDxH):		13.03" x 8.94" x 0.73";	331.0mm x 227.1mm x 18.46mm		vPro (optional)	Intel vPro Technology					
Weight ²	Models	WQHD	HD+	WQHD Touch		Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor					
	Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg		Preload	Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit					
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum					Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite					
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery											
Max battery life ¹⁰	Integrated battery: up to 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%	1.0hr	50min	50min								
	Charge to 100%	2.3hr	2.1hr	2.1hr								
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack											

See footnotes for more detailed information

(MQ1-1) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A7 (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	Fingerprint reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20A7006DUS	i5-4200U	No	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	None	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	1-depot	No	02/14
20A7006TUS	i5-4200U	No	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	1-depot	No	03/14
20A7007DUS	i5-4210U	No	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	1-depot	No	05/14
20A7006RUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	1-depot	No	03/14
20A7003BUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003DUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003EUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003GUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A70035US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003JUS	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A70037US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A70039US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003LUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7003PUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	01/14
20A7006VUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	03/14
20A7006WUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	512G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	No	07/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor						Keyboard		Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit																																				
	<table border="1"> <thead> <tr> <th>Processor</th> <th># of Cores</th> <th>Base Frequency</th> <th>Max Turbo Frequency</th> <th>Cache</th> <th>Memory Types</th> </tr> </thead> <tbody> <tr> <td>i5-4200U</td> <td rowspan="4">2</td> <td>1.6 GHz</td> <td>2.6 GHz</td> <td>3MB</td> <td rowspan="4">DDR3L-1600</td> </tr> <tr> <td>i5-4210U</td> <td>1.7 GHz</td> <td>2.7 GHz</td> <td>3MB</td> </tr> <tr> <td>i5-4300U</td> <td>1.9 GHz</td> <td>2.9 GHz</td> <td>3MB</td> </tr> <tr> <td>i7-4600U</td> <td>2.1 GHz</td> <td>3.3 GHz</td> <td>4MB</td> </tr> </tbody> </table>						Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	i5-4210U	1.7 GHz	2.7 GHz	3MB	i5-4300U	1.9 GHz	2.9 GHz	3MB	i7-4600U	2.1 GHz	3.3 GHz	4MB	UltraNav™		TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch												
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							ThinkLight™		None																																				
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets						Chipset		Intel SoC (System on Chip) platform																																				
Optical	None						Smart card reader		None																																				
Storage	M.2 Solid State Drive (SSD)						Media reader		None																																				
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio						Ports		Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)																																				
Multi-touch	Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS						Monitor Cable		Some: Mini DisplayPort to VGA Monitor Cable																																				
Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						WLAN ⁴		7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card																																				
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input						WWAN (optional)		Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS																																				
Graphics	Intel HD Graphics 4400 or 5000						SIM card (optional)		AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider																																				
Dimensions ³	WQHD (WxDxH): 13.03" x 8.92" x 0.70"; 331.0mm x 226.5mm x 17.72mm HD+ (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						Bluetooth™		Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter																																				
Weight ²	<table border="1"> <thead> <tr> <th>Models</th> <th>WQHD</th> <th>HD+</th> <th>WQHD Touch</th> </tr> </thead> <tbody> <tr> <td>Weight</td> <td>2.82 lb / 1.28kg</td> <td>2.96 lb / 1.34kg</td> <td>3.15 lb / 1.43kg</td> </tr> </tbody> </table>						Models	WQHD	HD+	WQHD Touch	Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg	Ethernet		Ethernet Extension cable																												
Models	WQHD	HD+	WQHD Touch																																										
Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg																																										
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum						NFC		Optional: Near Field Communication																																				
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery						Security		Power-on / hard disk / supervisor password, security keyhole, reset switch																																				
Max battery life ¹⁰	Integrated battery: up to 9 hr						Security chip		Trusted Platform Module, TCG 1.2-compliant																																				
AC Adapter	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter						vPro (optional)		Intel vPro Technology																																				
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>1.0hr</td> <td>50min</td> <td>50min</td> </tr> <tr> <td>Charge to 100%</td> <td>2.3hr</td> <td>2.1hr</td> <td>2.1hr</td> </tr> </tbody> </table>						AC Adapter	45W	65W Slim	65W	Charge to 80%	1.0hr	50min	50min	Charge to 100%	2.3hr	2.1hr	2.1hr	Fingerprint reader		Fingerprint reader on the keyboard bezel, swipe sensor																								
AC Adapter	45W	65W Slim	65W																																										
Charge to 80%	1.0hr	50min	50min																																										
Charge to 100%	2.3hr	2.1hr	2.1hr																																										
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack						Preload		Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Win8.1 P64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit																																				
							Limited warranty ¹²		1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite																																				

See footnotes for more detailed information

(MQ1-2) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Win8)

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Moni-tor cable	Cam-era	Backlit key-board	Finger-print reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Glob-al	Ann date (m/y)
20A8001CUS	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14	
20A8001PUS	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14	
20A8001RUS	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14	
20A8001TUS	i5-4300U	vPro	HD 4400	4GBx1 14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14	
20A80021US	i5-4300U	vPro	HD 4400	4GBx1 14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14	
20A80022US	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14	
20A80023US	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14	
20A80024US	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	No	128G SSD	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14	
20A8002CUS	i5-4300U	vPro	HD 4400	4GBx1 14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A8002PUS	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A8002UUS	i5-4300U	vPro	HD 4400	4GBx1 14" HD+	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A80031US	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A80036US	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A80041US	i5-4300U	vPro	HD 4400	4GBx1 14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A80047US	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A8007XUS	i5-4300U	vPro	HD 4400	4GBx1 14" HD+	No	128G SSD	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14	
20A80085US	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	MT	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14	
20A80088US	i5-4300U	vPro	HD 4400	4GBx1 14" WQHD IPS	No	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14	
20A8002FUS	i5-4300U	vPro	HD 4400	8GBx1 14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A8002GUS	i5-4300U	vPro	HD 4400	8GBx1 14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A8002KUS	i5-4300U	vPro	HD 4400	8GBx1 14" HD+	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	
20A8002WUS	i5-4300U	vPro	HD 4400	8GBx1 14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14	

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor					Keyboard	Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch
	i5-4210U		1.7 GHz	2.7 GHz	3MB		
	i5-4300U		1.9 GHz	2.9 GHz	3MB		
	i7-4600U		2.1 GHz	3.3 GHz	4MB		
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets					ThinkLight™	None
Optical	None					Chipset	Intel SoC (System on Chip) platform
Storage	M.2 Solid State Drive (SSD)					Smart card reader	None
Widescreen display	<i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio					Media reader	None
Multi-touch	<i>Some:</i> 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS					Ports	Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)
Camera	<i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits					Monitor Cable	<i>Some:</i> Mini DisplayPort to VGA Monitor Cable
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input					WLAN ⁴	<i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card
Graphics	Intel HD Graphics 4400 or 5000					WWAN (optional)	<i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS
Dimensions ³	<i>WQHD (WxDxH):</i>		13.03" x 8.92" x 0.70";	331.0mm x 226.5mm x 17.72mm			
	<i>HD+ (WxDxH):</i>		13.03" x 8.93" x 0.71";	331.0mm x 226.8mm x 18.16mm			
	<i>WQHD Touch (WxDxH):</i>		13.03" x 8.94" x 0.73";	331.0mm x 227.1mm x 18.46mm			
Weight ²	Models	WQHD	HD+	WQHD Touch			
	Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg			
Case material	<i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum					SIM card (optional)	<i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery					Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter
Max battery life ¹⁰	<i>Integrated battery:</i> up to 9 hr					Ethernet	Ethernet Extension cable
AC Adapter	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter					Optional:	Near Field Communication
RapidCharge	AC Adapter	45W	65W Slim	65W		Security	Power-on / hard disk / supervisor password, security keyhole, reset switch
	Charge to 80%	1.0hr	50min	50min		Security chip	Trusted Platform Module, TCG 1.2-compliant
	Charge to 100%	2.3hr	2.1hr	2.1hr		vPro (optional)	Intel vPro Technology
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack					Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor
						Preload	<i>Win8.1 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Win8.1 64:</i> Windows 8.1 64-bit <i>Win8.1 P64:</i> Windows 8.1 Pro 64-bit
						Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite

See footnotes for more detailed information

(MQ1-3) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Win8) - 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	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20A80032US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80033US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80049US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8004BUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8004EUS	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8001FUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14
20A8001GUS	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14
20A8001NUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14
20A8001QUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14
20A8001SUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-depot	Yes	01/14
20A8002NUS	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8002RUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8002TUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80037US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80045US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80048US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A8004AUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	01/14
20A80083US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14
20A80086US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14
20A80089US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-depot	Yes	04/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor						Keyboard	Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit														
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™	TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch														
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None														
	i5-4210U		1.7 GHz	2.7 GHz	3MB		Chipset	Intel SoC (System on Chip) platform														
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	None														
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	None														
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets						Ports	Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)														
Optical Storage	None M.2 Solid State Drive (SSD)						Monitor Cable	Some: Mini DisplayPort to VGA Monitor Cable														
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio						WLAN ⁴	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card														
Multi-touch	Some: 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS						WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS														
Camera	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits						SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider														
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input						Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter														
Graphics	Intel HD Graphics 4400 or 5000						Ethernet	Ethernet Extension cable Optional: Near Field Communication														
Dimensions ³	WQHD (WxDxH):		13.03" x 8.92" x 0.70";		331.0mm x 226.5mm x 17.72mm		Security	Power-on / hard disk / supervisor password, security keyhole, reset switch														
	HD+ (WxDxH):		13.03" x 8.93" x 0.71";		331.0mm x 226.8mm x 18.16mm		Security chip	Trusted Platform Module, TCG 1.2-compliant														
	WQHD Touch (WxDxH):		13.03" x 8.94" x 0.73";		331.0mm x 227.1mm x 18.46mm		vPro (optional)	Intel vPro Technology														
Weight ²	Models	WQHD	HD+	WQHD Touch			Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor														
	Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg			Preload	Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit														
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum						Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite														
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery																					
Max battery life ¹⁰	Integrated battery: up to 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%	1.0hr	50min	50min																		
	Charge to 100%	2.3hr	2.1hr	2.1hr																		
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack																					

See footnotes for more detailed information

(MQ1-4) © Lenovo

ThinkPad X1 Carbon (2nd Gen) 20A8 (Win8) - Onsite

Product Specifications Reference (PSREF)

Model	Processor	vPro	Graphics	Memory (sol-dered)	Display	Multi-touch	Storage	WLAN & Bluetooth	WWAN	SIM card	Monitor cable	Camera	Backlit keyboard	Fingerprint reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20A8001DUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001EUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001HUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	128G SSD	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001KUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001VUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001WUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001XUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A80020US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8002DUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002EUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002QUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002SUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002XUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8004CUS	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8004DUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8007YUS	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A80082US	i5-4300U	vPro	HD 4400	4GBx1	14" WQHD IPS	No	180G SSD Opal	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A80084US	i5-4300U	vPro	HD 4400	4GBx1	14" HD+	No	128G SSD	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A8002HUS	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002LUS	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002YUS	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80030US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor					Keyboard	Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit					
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™	TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch				
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None				
	i5-4210U		1.7 GHz	2.7 GHz	3MB		Chipset	Intel SoC (System on Chip) platform				
	i5-4300U		1.9 GHz	2.9 GHz	3MB		Smart card reader	None				
	i7-4600U		2.1 GHz	3.3 GHz	4MB		Media reader	None				
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets					Ports	Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)					
Optical Storage	None M.2 Solid State Drive (SSD)					Monitor Cable	Some: Mini DisplayPort to VGA Monitor Cable					
Widescreen display	Some: 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio					WLAN ⁴	7260 b/g/n+BT: Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 a/b/g/n+BT: Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card 7260 ac+BT: Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card					
Multi-touch	Some: Capacitive-type multi-touch, supports 10-finger gesture, 270 nits					WWAN (optional)	Upg: Wireless WAN upgradable EM7355: Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/ HSPA+/EVDO/GSM/GPRS/EDGE, GPS					
Camera	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input					SIM card (optional)	AT&T / Verizon: AT&T® / Verizon® LTE (4G), contract required with service provider Select: User selectable, contract required with service provider					
Light sensor	Ambient Light Sensor (Windows 8.1 64-bit only)					Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter					
Graphics	Intel HD Graphics 4400 or 5000					Ethernet	Ethernet Extension cable Optional: Near Field Communication					
Dimensions ³	WQHD (WxDxH):		13.03" x 8.92" x 0.70";		331.0mm x 226.5mm x 17.72mm		Security	Power-on / hard disk / supervisor password, security keyhole, reset switch				
	HD+ (WxDxH):		13.03" x 8.93" x 0.71";		331.0mm x 226.8mm x 18.16mm		Security chip	Trusted Platform Module, TCG 1.2-compliant				
	WQHD Touch (WxDxH):		13.03" x 8.94" x 0.73";		331.0mm x 227.1mm x 18.46mm		vPro (optional)	Intel vPro Technology				
Weight ²	Models	WQHD	HD+	WQHD Touch	Fingerprint reader							
	Weight	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg	Fingerprint reader on the keyboard bezel, swipe sensor							
Case material	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum					Preload	Win8.1 DG Win7: Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit Win8.1 64: Windows 8.1 64-bit Win8.1 P64: Windows 8.1 Pro 64-bit					
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery					Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite					
Max battery life ¹⁰	Integrated battery: up to 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%	1.0hr	50min	50min								
	Charge to 100%	2.3hr	2.1hr	2.1hr								
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack											

See footnotes for more detailed information

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ThinkPad X1 Carbon (2nd Gen) 20A8 (Win8) - Onsite - 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	Fingerprint reader	NFC	Battery cells	Power adapter (watt)	Preload	Base warranty (year)	Global	Ann date (m/y)
20A80035US	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80043US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80044US	i5-4300U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8004FUS	i5-4300U	vPro	HD 4400	8GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8001JUS	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001LUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001MUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001UUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8001YUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	180G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 64	3-onsite	Yes	01/14
20A8002JUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002MUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8002VUS	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80034US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 ac+BT	EM7355	Select	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80042US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80046US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A8004GUS	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	240G SSD Opal	7260 ac+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	01/14
20A80080US	i7-4600U	vPro	HD 4400	8GBx1	14" HD+	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A80081US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	MT	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14
20A80087US	i7-4600U	vPro	HD 4400	8GBx1	14" WQHD IPS	No	256G SSD eDrive	7260 a/b/g/n+BT	Upg	None	None	720p	Backlit	Finger	None	8(45wh)	65W	Win8.1 P64	3-onsite	Yes	04/14

• For detailed platform specifications, please see [ThinkPad X1 Carbon \(2nd Gen\) Platform Specifications sheet](#)

Processor	4th Generation Intel® Core™ i5 / i7 Processor					Keyboard	Adaptive Keyboard with a dynamically changing row providing additional functionality based on the type of the application active / 5-row, spill-resistant (except Adaptive Keys), LED backlit	
	Processor	# of Cores	Base Frequency	Max Turbo Frequency	Cache	Memory Types	UltraNav™	TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch
	i5-4200U	2	1.6 GHz	2.6 GHz	3MB	DDR3L-1600	ThinkLight™	None
	i5-4210U		1.7 GHz	2.7 GHz	3MB			
	i5-4300U		1.9 GHz	2.9 GHz	3MB			
	i7-4600U		2.1 GHz	3.3 GHz	4MB			
Memory	4GB or 8GB / DDR3L-1600MHz / soldered to systemboard, no sockets					Chipset	Intel SoC (System on Chip) platform	
Optical Storage	None					Smart card reader	None	
Storage	M.2 Solid State Drive (SSD)					Media reader	None	
Widescreen display	<i>Some:</i> 14.0" (355mm) HD+ (1600x900) , 250 nits, 400:1 contrast ratio					Ports	Two USB 3.0 (one Always On), MiniDP, HDMI, Ethernet extension connector, Lenovo OneLink connector, Micro-SIM card tray (WWAN upg / WWAN model only)	
Multi-touch	<i>Some:</i> 14.0" (355mm) WQHD (2560x1440) , 300 nits, 700:1 contrast ratio, IPS					Monitor Cable	<i>Some:</i> Mini DisplayPort to VGA Monitor Cable	
Camera	<i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits					WLAN ⁴	<i>7260 b/g/n+BT:</i> Intel Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 a/b/g/n+BT:</i> Intel Dual Band Wireless-N 7260, 2x2, Wi-Fi + BT, M.2 card <i>7260 ac+BT:</i> Intel Dual Band Wireless-AC 7260, 2x2, Wi-Fi + BT, M.2 card	
Light sensor	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input					WWAN (optional)	<i>Upg:</i> Wireless WAN upgradable <i>EM7355:</i> Sierra Wireless EM7355, Qualcomm® Gobi™ 4G LTE/HSPA+/EVDO/GSM/GPRS/EDGE, GPS	
Graphics	Intel HD Graphics 4400 or 5000					SIM card (optional)	<i>AT&T / Verizon:</i> AT&T® / Verizon® LTE (4G), contract required with service provider <i>Select:</i> User selectable, contract required with service provider	
Dimensions ³	<i>WQHD (WxDxH):</i>	13.03" x 8.92" x 0.70";	331.0mm x 226.5mm x 17.72mm			Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
	<i>HD+ (WxDxH):</i>	13.03" x 8.93" x 0.71";	331.0mm x 226.8mm x 18.16mm			Ethernet	Ethernet Extension cable	
	<i>WQHD Touch (WxDxH):</i>	13.03" x 8.94" x 0.73";	331.0mm x 227.1mm x 18.46mm			NFC	<i>Optional:</i> Near Field Communication	
Weight ²	<i>Models</i>	<i>WQHD</i>	<i>HD+</i>	<i>WQHD Touch</i>		Security	Power-on / hard disk / supervisor password, security keyhole, reset switch	
	<i>Weight</i>	2.82 lb / 1.28kg	2.96 lb / 1.34kg	3.15 lb / 1.43kg		Security chip	Trusted Platform Module, TCG 1.2-compliant	
Case material	<i>Display cover:</i> Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; <i>Bottom:</i> Magnesium/Aluminum					vPro (optional)	Intel vPro Technology	
Battery type	Integrated Lithium Polymer 8-cell (45Wh) RapidCharge battery					Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor	
Max battery life ¹⁰	<i>Integrated battery:</i> up to 9 hr					Preload	<i>Win8.1 DG Win7:</i> Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <i>Win8.1 64:</i> Windows 8.1 64-bit <i>Win8.1 P64:</i> Windows 8.1 Pro 64-bit	
AC Adapter	45W AC Adapter, 65W Slim AC Adapter, or 65W AC Adapter					Limited warranty ¹²	1-year - depot / 3-years (1-yr battery) - depot / 3-years (1-year battery) onsite	
RapidCharge	<i>AC Adapter</i>	<i>45W</i>	<i>65W Slim</i>	<i>65W</i>				
	<i>Charge to 80%</i>	1.0hr	50min	50min				
	<i>Charge to 100%</i>	2.3hr	2.1hr	2.1hr				
Audio support	HD Audio, Realtek® ALC3232 codec, Dolby® Home Theater® v4 / stereo speakers, 1 watt x 2 / dual array microphone, combo audio/microphone jack							

See footnotes for more detailed information

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