

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 Speed	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								SIM card (optional)	<i>One of the following, configurable by model:</i> <ul style="list-style-type: none"> AT&T® or Verizon® LTE (4G), contract required with service provider (US models) Lenovo SIM, out-of-box service, pay-as-you-go via credit card, no contract required (WE models) User selectable, contract required with service provider 	
Optical Storage	None M.2 Solid State Drive (SSD)								Bluetooth™	Bluetooth 4.0 wireless, integrated in Wi-Fi + Bluetooth combo adapter	
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								Ethernet	Ethernet Extension cable	
Multi-touch	<i>Some:</i> Capacitive-type multi-touch, supports 10-finger gesture, 270 nits								NFC	<i>Optional:</i> Near Field Communication	
Camera	HD720p resolution, low light sensitive, face tracking, fixed focus, gesture input								Security	Power-on password, hard disk password, supervisor password, security keyhole, reset switch	
Light sensor	Ambient Light Sensor (Windows 8.1 64-bit only)								Security chip	Trusted Platform Module, TCG 1.2-compliant	
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								vPro (optional)	Intel vPro Technology	
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								Fingerprint reader	Fingerprint reader on the keyboard bezel, swipe sensor	
UltraNav™	TrackPoint® pointing device and glass surface touchpad, integrated five buttons, multi-touch								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) 	
ThinkLight™	None								Preload	Windows® 7 Professional 64 preinstalled through downgrade rights in Windows 8.1 Pro 64-bit <ul style="list-style-type: none"> Lenovo Solution Center ThinkVantage Product Recovery Rescue and Recovery™ ThinkVantage System Update PC Device Stage Adobe® Reader® Nitro Pro Evernote® Microsoft® Office preloaded; purchase a product key to activate Norton™ Internet Security (30 days of virus definitions) 	
Dimensions ³	WQHD (WxDxH):		13.03" x 8.92" x 0.70";		331.0mm x 226.5mm x 17.72mm					<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) 	
	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	Display cover: Carbon-Fiber Reinforced Plastic + Glass-Fiber Reinforced Plastic; Bottom: Magnesium/Aluminum										
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					
Chipset	Intel SoC (System on Chip) platform								Mil-Spec test	MIL-STD-810G military certification	
Smart card reader	None								Environment	EPEAT™ Gold; ENERGY STAR® 6.0; RoHS-compliant	
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										