

## Lenovo ThinkPad X1 Carbon (5th Gen) Intel® Core™ i7 i7-7600U Laptop 35.6 cm (14") Full HD 8 GB LPDDR3-SDRAM 256 GB SSD Wi-Fi 5 (802.11ac) Windows 10 Pro Black



Brand : Lenovo Product family: ThinkPad Product code: 20HR005HUS

Product name: ThinkPad X1

Carbon (5th Gen)

Intel Core i7-7600U (2.8GHz), 8GB LPDDR3, 256GB SSD, 14" FHD (1920x1080) IPS, Intel HD Graphics 620, WLAN, Windows 10 Pro

Lenovo ThinkPad X1 Carbon (5th Gen). Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-7600U, Processor frequency: 2.8 GHz. Display diagonal: 35.6 cm (14"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: LPDDR3-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. Mobile network generation: 4G. Operating system installed: Windows 10 Pro. Product color: Black

Design		Ports & interfaces	
Product type *	Laptop		,
Product color *	Black	USB Sleep-and-Charge	1
Form factor *	Clamshell	USB Sleep-and-Charge ports	1
Market positioning	Business	Performance	
	Business	Motherboard chipset	Intel SoC
Display		Keyboard	
Display diagonal *	35.6 cm (14")	Pointing device	ThinkPad UltraNav
Display resolution *	1920 x 1080 pixels	Numeric keypad *	×
Touchscreen *	×	Keyboard backlit	, ,
HD type	Full HD	•	•
Panel type	IPS	Spill-resistant keyboard	✓
LED backlight	•	Windows keys	1
Native aspect ratio	16:9	Software	
Display surface	Matt	Operating system architecture	64-bit
Screen shape	Flat	Operating system installed *	Windows 10 Pro
Processor		Processor special features	
Processor manufacturer *	Intel	Intel® My WiFi Technology (Intel®	
Processor family *	Intel® Core™ i7	MWT)	<b>✓</b>
Processor generation	7th gen Intel® Core™ i7	Intel® Smart Response Technology	✓
Processor model *	i7-7600U	Intel® Identity Protection	1
Processor cores	2	Technology (Intel® IPT)	•
Processor threads	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	3.9 GHz	Intel® Turbo Boost Technology	2.0
Processor frequency *	2.8 GHz	Enhanced Intel SpeedStep	
System bus rate	4 GT/s	Technology	1
Processor cache Processor cache type	4 MB Smart Cache	Intel® Clear Video HD Technology	1
Processor cache type  Processor socket	BGA 1356	(Intel® CVT HD)	•
Processor lithography	14 nm	Intel Clear Video Technology	✓
Processor operating modes	64-bit	Intel® Quick Sync Video Technology	<b>√</b>
Processor series	Intel Core i7-7600 Mobile Series	Intel Flex Memory Access	✓
Processor codename	Kaby Lake	Intel® Smart Cache	✓
Bus type	OPI	Intel® AES New Instructions (Intel®	
Stepping	H0	AES-NI)	•
Thermal Design Power (TDP)	15 W	Intel Trusted Execution Technology	✓
Configurable TDP-up frequency	2.9 GHz	Intel Enhanced Halt State	1
Configurable TDP-up	25 W	Intel VT-x with Extended Page	J
Configurable TDP-down	7.5 W	Tables (EPT)	-

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Processor	0.0.011-	Processor special features	
Configurable TDP-down frequency	0.8 GHz 100 °C	Intel® Secure Key	<b>✓</b>
Tjunction  Maximum number of PCI Express		Intel TSX-NI	<b>✓</b>
lanes	12	Intel Stable Image Platform Program (SIPP)	✓
PCI Express slots version PCI Express configurations	3.0	Intel® OS Guard	✓
ECC supported by processor	1x2, 1x4, 2x2, 2x1, 4x1 x	Intel Software Guard Extensions (Intel SGX)	✓
Memory		Intel® Clear Video Technology for	
Internal memory *	8 GB	Mobile Internet Devices (Intel CVT for MID)	<b>✓</b>
Internal memory type	LPDDR3-SDRAM	Intel 64	<b>✓</b>
Memory clock speed	1866 MHz	Execute Disable Bit	<b>✓</b>
Memory form factor	On-board	Idle States	·
Maximum internal memory *	8 GB	Thermal Monitoring Technologies	· •
Storage		Processor package size	42 x 24 mm
Total storage capacity *	256 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Storage media *	SSD	Processor code	SR33Z
Number of SSDs installed	1	CPU configuration (max)	1
SSD capacity	256 GB	Embedded options available	<b>✓</b>
SSD form factor	M.2	Graphics & IMC lithography	14 nm
Optical drive type *	×	Intel Virtualization Technology for	<b>✓</b>
Card reader integrated	MicroCD (TransFlack)	Directed I/O (VT-d) Intel Identity Protection Technology	
Compatible memory cards	MicroSD (TransFlash)	version	1.00
Graphics Discrete graphics card model *	Not available	Intel Smart Response Technology version	1.00
On-board graphics card *	✓	Intel Stable Image Platform Program (SIPP) version	1.00
Discrete graphics card *	×	Intel Secure Key Technology version	1.00
On-board graphics card family	Intel® HD Graphics	Intel TSX-NI version	1.00
On-board graphics card model *	Intel® HD Graphics 620	Intel Virtualization Technology (VT-	/
On-board graphics card base frequency	300 MHz	x) Processor ARK ID	97466
On-board graphics card dynamic frequency (max)	1150 MHz	Conflict-Free processor	✓
Maximum on-board graphics card	32 GB	Battery	
memory		Battery technology	Lithium Polymer (LiPo)
On-board graphics card DirectX version	12.0	Number of battery cells	3
On-board graphics card OpenGL	4.4	Battery capacity *	57 Wh
version	4.4	Battery life (max)	15.5 h
On-board graphics card ID	0x5916	Power	
Audio		AC adapter frequency	50 - 60 Hz
Number of built-in speakers	2	AC adapter input voltage	100 - 240 V
Speaker power	2 W	Security	
Built-in microphone	✓	Cable lock slot	✓
Camera		Fingerprint reader	/
Front camera	<b>/</b>	Trusted Platform Module (TPM)	✓
Front camera signal format	720p	Password protection	· •
-	720β	•	HDD, Power on, Supervisor
Network		Password protection type	חטט, Power on, Supervisor
Mobile network generation	4G	Certificates	
4G standard	LTE	Compliance certificates	RoHS
Wi-Fi	<b>/</b>	Sustainability	
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)	Sustainability certificates	EPEAT Gold, ENERGY STAR
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Weight & dimensions	
Mobile network connection *	<b>✓</b>	Width	323.5 mm
Ethernet LAN	×	Depth	217.1 mm
Bluetooth	<b>✓</b>	Height	15.9 mm
Bluetooth version	4.1	Weight *	1.13 kg
WWAN	Installed		

Ports & interfaces		Packaging content	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	AC adapter included *	✓
USB 3.2 Gen 2 (3.1 Gen 2) Type-C		Manual	✓
ports quantity	2	Quick start guide	✓
HDMI ports quantity *	1	Power cord included	✓
DVI port	×	Other features	
S/PDIF out port	×	LightScribe	×
Microphone in	×	3	
Combo headphone/mic port	✓	3D	X

## **Catalog Object Cloud**



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