



Lenovo ThinkPad X1 Carbon Gen 8 Intel® Core™ i7 i7-10510U Ordinador portàtil 35,6 cm (14") 4K Ultra HD 16 GB LPDDR3- SDRAM 512 GB Dispositiu d'estat sòlid (SSD) Wi-Fi 6 (802.11ax) Windows 10 Pro Negre

Brand : Lenovo

Product family: ThinkPad

Product code: 20U90046UK

Product name : ThinkPad X1
Carbon Gen 8

Lenovo ThinkPad X1 Carbon Gen 8. Tipus de producte: Ordinador portàtil, Factor de forma: Petxina de cloïssa. Família de processador: Intel® Core™ i7, Processador: i7-10510U, Freqüència de processador: 1,8 GHz. Pantalla diagonal: 35,6 cm (14"), Tipus HD: 4K Ultra HD, Resolució de pantalla: 3840 x 2160 Píxeles. Memòria interna: 16 GB, Tipus de memòria interna: LPDDR3-SDRAM. Capacitat d'emmagatzematge total: 512 GB, Suport d'emmagatzematge: Dispositiu d'estat sòlid (SSD). Generació de la xarxa mòbil: 4G. Sistema operatiu subministrat: Windows 10 Pro. Color de producte: Negre



Design		Network	
Product type *	Laptop	WWAN	Installed
Product colour *	Black	Ports & interfaces	
Form factor *	Clamshell	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Housing material	Carbon fibre, Magnesium	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	2
Intel® vPro™ Platform Eligibility	✗	HDMI ports quantity *	1
Display		HDMI version	1.4b
Display diagonal *	35.6 cm (14")	Combo headphone/mic port	✓
Display resolution *	3840 x 2160 pixels	Docking connector	✓
Touchscreen *	✗	USB Type-C DisplayPort Alternate Mode	✓
HD type	4K Ultra HD	USB Sleep-and-Charge	✓
Panel type	IPS	USB Sleep-and-Charge ports	1
LED backlight	✓	Performance	
Native aspect ratio	16:9	Motherboard chipset	Intel SoC
Display brightness	500 cd/m²	Keyboard	
Contrast ratio (typical)	1500:1	Pointing device	ThinkPad UltraNav
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlight	✓
Processor family *	Intel® Core™ i7	Spill-resistant keyboard	✓
Processor generation	10th gen Intel® Core™ i7	Software	
Processor model *	i7-10510U	Operating system architecture	64-bit
Processor cores	4	Operating system installed *	Windows 10 Pro
Processor threads	8	Processor special features	
Processor boost frequency	4.9 GHz	Intel® My WiFi Technology (Intel® MWT)	✓
Processor frequency *	1.8 GHz	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	4 GT/s	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cache	8 MB	Intel® Turbo Boost Technology	2.0
Processor socket	BGA 1528		
Processor lithography	14 nm		
Processor operating modes	64-bit		
Processor codename	Comet Lake		
Thermal Design Power (TDP)	15 W		
Configurable TDP-up frequency	2.3 GHz		
Configurable TDP-up	25 W		

Processor		Processor special features	
Configurable TDP-down	10 W	Enhanced Intel SpeedStep Technology	✓
Configurable TDP-down frequency	0.8 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Tjunction	100 °C	Intel Clear Video Technology	✓
Maximum number of PCI Express lanes	16	Intel® Quick Sync Video Technology	✓
PCI Express slots version	3.0	Intel Flex Memory Access	✓
PCI Express configurations	1x4, 2x2, 1x2+2x1, 4x1	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory		Intel Trusted Execution Technology	✗
Internal memory *	16 GB	Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory type	LPDDR3-SDRAM	Intel® Secure Key	✓
Memory clock speed	2133 MHz	Intel TSX-NI	✗
Memory form factor	On-board	Intel Stable Image Platform Program (SIPP)	✗
Maximum internal memory *	16 GB	Intel® OS Guard	✓
Storage		Intel Software Guard Extensions (Intel SGX)	✓
Total storage capacity *	512 GB	Intel 64	✓
Storage media *	SSD	Execute Disable Bit	✓
Total SSDs capacity	512 GB	Idle States	✓
Number of SSDs installed	1	Thermal Monitoring Technologies	✓
SSD capacity	512 GB	Processor package size	46 x 24 mm
SSD form factor	M.2	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Optical drive type *	✗	CPU configuration (max)	1
Card reader integrated	✗	Embedded options available	✗
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card model *	Not available	Intel Virtualization Technology (VT-x)	✓
On-board graphics card *	✓	Processor ARK ID	196449
On-board GPU manufacturer	Intel	Battery	
Discrete graphics card *	✗	Battery technology	Lithium Polymer (LiPo)
On-board graphics card model *	Intel® UHD Graphics	Battery capacity *	51 Wh
On-board graphics card base frequency	300 MHz	Fast charging	✓
On-board graphics card dynamic frequency (max)	1150 MHz	Power	
Maximum on-board graphics card memory	32 GB	AC adapter power	65 W
Number of execution units	24	AC adapter frequency	50 - 60 Hz
On-board graphics card DirectX version	12.0	AC adapter input voltage	100 - 240 V
On-board graphics card OpenGL version	4.5	USB Type-C charging port *	✓
On-board graphics card ID	0x9B41	USB Power Delivery (USB PD)	✓
Audio		Security	
Audio system	Dolby Atmos	Cable lock slot	✓
Number of built-in speakers	4	Cable lock slot type	Kensington
Built-in subwoofer	✗	Fingerprint reader	✓
Built-in microphone	✓	Smart card reader	✗
Number of microphones	4	Trusted Platform Module (TPM)	✓
Camera		Password protection	✓
Front camera	✓	Password protection type	HDD, Power on, Supervisor
Front camera HD type	HD	Certificates	
Infrared (IR) camera	✓	Compliance certificates	RoHS
Privacy camera	✓	Certification	MIL-STD-810G
Privacy type	Privacy shutter	Sustainability	
Network		Sustainability certificates	EPEAT Gold, ENERGY STAR
Mobile network generation	4G	Weight & dimensions	
4G standard	LTE-A	Width	323 mm
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)		

Network		Weight & dimensions	
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax)	Depth	217 mm
		Height	14.9 mm
		Weight *	1.09 kg
Mobile network connection *	✓		
Antenna type	2x2		
WLAN controller model	Intel Wi-Fi 6 AX201		
Bluetooth	✓		
Bluetooth version	5.0		

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