



**Lenovo ThinkPad X1 Extreme Gen 5 Intel® Core™ i7 i7-12800H  
Computer portatile 40,6 cm (16") WQUXGA 32 GB DDR5-SDRAM 1  
TB SSD NVIDIA GeForce RTX 3070 Ti Wi-Fi 6E (802.11ax) Windows  
11 Pro Italiano Nero**

**Marchio :** Lenovo

**Famiglia del prodotto:**  
ThinkPad

**Codice prodotto:** 21DE001LIX

**Nome del prodotto :** ThinkPad  
X1 Extreme Gen 5



Intel Core i7-12800H, 14C (6P + 8E)/20T, P-core 2.4/4.8GHz, E-core 1.8/3.7GHz, 24MB, 2x 16GB SO-DIMM  
DDR5-4800, 1TB SSD M.2 2280 PCIe 4.0x4 Performance NVMe Opal2, 16" WQUXGA (3840x2400) IPS  
600nits Anti-glare 100% Adobe RGB Low Blue Light HDR 400 Dolby Vision, NVIDIA GeForce RTX 3070 Ti  
8GB, Intel AX211 Wi-Fi 6E 2x2 + BT5.1, IR & FHD 1080p with Privacy Shutter, Windows 11 Pro 64

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WQUXGA 32 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 3070 Ti Wi-Fi 6E (802.11ax) Windows 11  
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**Estrema potenza, prestazioni straordinarie**

- Potente sistema da 40,64 cm (16") con processori Intel® Core™ vPro® i9 di dodicesima generazione
- Connessione continua con 5G opzionale, più opzione Wi-Fi 6/6E
- Straordinaria scheda grafica NVIDIA® GeForce RTX™ opzionale
- Videochiamate stellari con webcam Full HD, Dolby Atmos® e altoparlanti con emissione audio verso l'alto
- Ideale per professionisti creativi e giocatori
- Accesso super sicuro: lettore di impronte digitali integrato nel pulsante di accensione

Design		Network	
Colour name	Black	Antenna type	2x2
Product type *	Laptop	WLAN controller model	Intel Wi-Fi 6E AX211
Product colour *	Black	WLAN controller manufacturer	Intel
Form factor *	Clamshell	Ethernet LAN	✗
Housing material	Aluminium, Carbon fibre	Bluetooth	✓
Display		Bluetooth version	5.2
Display diagonal *	40.6 cm (16")	Near Field Communication (NFC)	✓
Display resolution *	3840 x 2400 pixels	Ports & interfaces	
Touchscreen *	✗	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
HD type	WQUXGA	HDMI ports quantity *	1
Panel type	IPS	Thunderbolt 4 ports quantity	2
LED backlight	✓	Intel® Thunderbolt 4	✓
Native aspect ratio	16:10	Combo headphone/mic port	✓
Anti-glare screen	✓	USB Type-C DisplayPort Alternate Mode	✓
Display brightness	600 cd/m²	USB Sleep-and-Charge	✓
RGB colour space	Adobe RGB	USB Sleep-and-Charge ports	1
Colour gamut	100%	Performance	
Contrast ratio (typical)	1500:1	Motherboard chipset	Intel SoC
High Dynamic Range (HDR) supported	✓	Keyboard	
High Dynamic Range (HDR) technology	Dolby Vision, High Dynamic Range (HDR) 400	Pointing device	ThinkPad UltraNav
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Keyboard backlit	✓
Processor family *	Intel® Core™ i7	Spill-resistant keyboard	✓
Processor generation	12th gen Intel® Core™ i7	Keyboard layout	QWERTY
Processor model *	i7-12800H	Keyboard language	Italian
Processor cores	14		

Processor		Software	
Processor boost frequency	4.8 GHz	Operating system architecture	64-bit
Processor frequency *	2.4 GHz	Operating system installed *	Windows 11 Pro
Processor cache	24 MB	Bundled software	Intel Connectivity Performance Suite
Configurable TDP-down	35 W		
Memory		Processor special features	
Internal memory *	32 GB	Intel Flex Memory Access	✓
Internal memory type	DDR5-SDRAM	Intel Trusted Execution Technology	✓
Memory clock speed	4800 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory form factor	SO-DIMM	Intel Stable Image Platform Program (SIPP)	✓
Memory layout (slots x size)	2 x 16 GB	Execute Disable Bit	✓
Memory slots	2x SO-DIMM	CPU configuration (max)	1
Maximum internal memory *	64 GB	Embedded options available	✗
Memory channels	Dual-channel	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage		Intel Virtualization Technology (VT-x)	✓
Total storage capacity *	1 TB		
Storage media *	SSD		
Total SSDs capacity	1 TB		
Number of SSDs installed	1		
SSD capacity	1 TB		
SSD interface	NVMe, PCI Express 4.0		
NVMe	✓		
SSD form factor	M.2		
Optical drive type *	✗		
Card reader integrated	✓		
Compatible memory cards	SD		
Graphics		Battery	
Discrete GPU manufacturer	NVIDIA	Battery technology	Lithium Polymer (LiPo)
Discrete graphics card model *	NVIDIA GeForce RTX 3070 Ti	Battery capacity *	90 Wh
Discrete graphics card memory	8 GB		
Discrete graphics memory type	GDDR6		
On-board graphics card *	✓		
On-board GPU manufacturer	Intel		
Discrete graphics card *	✓		
On-board graphics card family	Intel Iris Xe Graphics		
On-board graphics card model *	Intel Iris Xe Graphics		
Audio		Power	
Audio chip	Realtek ALC3306	AC adapter power	230 W
Audio system	Dolby Audio Premium	AC adapter frequency	50 - 60 Hz
Number of built-in speakers	2	AC adapter input voltage	100 - 240 V
Speaker power	2 W	USB Power Delivery (USB PD)	✓
Built-in microphone	✓		
Number of microphones	2		
Camera		Security	
Front camera	✓	Cable lock slot	✓
Front camera resolution	1920 x 1080 pixels	Cable lock slot type	Kensington
Front camera HD type	Full HD	Fingerprint reader	✓
Infrared (IR) camera	✓	Smart card reader	✗
Privacy camera	✓	Windows Hello	✓
Privacy type	Privacy shutter	Trusted Platform Module (TPM)	✓
Network		Trusted Platform Module (TPM) version	2.0
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Password protection	✓
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Password protection type	BIOS, Power on, Supervisor, SSD
Mobile network connection *	✗		
		Operational conditions	
		Operating temperature (T-T)	5 - 35 °C
		Storage temperature (T-T)	5 - 43 °C
		Operating relative humidity (H-H)	8 - 95%
		Storage relative humidity (H-H)	5 - 95%
		Certificates	
		Compliance certificates	RoHS
		Sustainability	
		Sustainability certificates	ENERGY STAR, EPEAT Gold, ErP, TCO
		Weight & dimensions	
		Width	359.5 mm
		Depth	253.8 mm
		Height	17.9 mm
		Weight *	1.88 kg



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