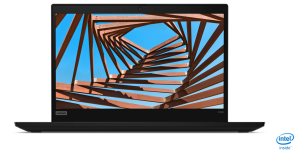




Lenovo ThinkPad X390 Laptop 33.8 cm (13.3") Full HD Intel® Core™ i7 i7-8665U 8 GB DDR4-SDRAM 256 GB SSD Wi-Fi 5 (802.11ac) Windows 10 Pro Black



Brand : Lenovo

Product family: ThinkPad

Product code: 20Q1SCDR00

Product name : X390



- Windows 10 Pro 64-bit
- Intel Core i7-8665U (8MB Cache, 1.9GHz)
- 33.8 cm (13.3") Full HD 1920 x 1080
- 8GB (2400MHz) DDR4-SDRAM & 256GB SSD

Intel Core i7-8665U (8MB Cache, 1.9GHz), 8GB DDR4-SDRAM, 256GB SSD, 33.8 cm (13.3") Full HD 1920 x 1080, Intel UHD Graphics, WLAN, Webcam, Windows 10 Pro 64-bit

Lenovo ThinkPad X390. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i7, Processor model: i7-8665U, Processor frequency: 1.9 GHz. Display diagonal: 33.8 cm (13.3"), HD type: Full HD, Display resolution: 1920 x 1080 pixels. Internal memory: 8 GB, Internal memory type: DDR4-SDRAM. Total storage capacity: 256 GB, Storage media: SSD. On-board graphics card model: Intel® UHD Graphics 620. Operating system installed: Windows 10 Pro. Product colour: Black



Design		Network	
Product type *	Laptop	Bluetooth	✓
Product colour *	Black	Bluetooth version	5.0
Form factor *	Clamshell	Ports & interfaces	
Market positioning	Business	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Display		USB 3.2 Gen 1 (3.1 Gen 1) Type-C ports quantity *	1
Display diagonal *	33.8 cm (13.3")	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Display resolution *	1920 x 1080 pixels	HDMI ports quantity *	1
Touchscreen *	✗	HDMI version	1.4b
HD type	Full HD	Headphone outputs	1
LED backlight	✓	Microphone in	✗
Native aspect ratio	16:9	Combo headphone/mic port	✓
Display brightness	300 cd/m ²	Docking connector	✓
Contrast ratio (typical)	800:1	Charging port type	USB Type-C
Processor		USB Type-C DisplayPort Alternate Mode	✓
Processor manufacturer *	Intel	USB Sleep-and-Charge	✓
Processor generation	8th gen Intel® Core™ i7	Keyboard	
Processor family *	Intel® Core™ i7	Pointing device	ThinkPad UltraNav
Processor model *	i7-8665U	Numeric keypad *	✗
Processor frequency *	1.9 GHz	Spill-resistant keyboard	✓
Processor boost frequency	4.8 GHz	Software	
Processor threads	8	Operating system architecture	64-bit
System bus rate	4 GT/s	Operating system installed *	Windows 10 Pro
Processor cores	4	Processor special features	
Processor cache	8 MB	Intel® My WiFi Technology (Intel® MWT)	✓
Processor cache type	Smart Cache	Intel® Smart Response Technology	✓
Processor socket	BGA 1528	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor lithography	14 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor operating modes	64-bit	Intel® Turbo Boost Technology	2.0
Processor codename	Whiskey Lake	Enhanced Intel SpeedStep Technology	✓
Thermal Design Power (TDP)	15 W		
Configurable TDP-up frequency	2.1 GHz		
Configurable TDP-up	25 W		
Configurable TDP-down	10 W		
Configurable TDP-down frequency	0.8 GHz		
Tjunction	100 °C		
Maximum number of PCI Express lanes	16		

Processor		Processor special features	
PCI Express slots version	3.0	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
PCI Express configurations	1x4, 2x2, 1x2+2x1, 4x1	Intel Clear Video Technology	✓
Memory		Intel® Quick Sync Video Technology	✓
Internal memory *	8 GB	Intel Flex Memory Access	✓
Internal memory type	DDR4-SDRAM	Intel® AES New Instructions (Intel® AES-NI)	✓
Memory clock speed	2400 MHz	Intel Trusted Execution Technology	✓
Memory form factor	On-board	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum internal memory *	8 GB	Intel® Secure Key	✓
Storage		Intel TSX-NI	✓
Total storage capacity *	256 GB	Intel Stable Image Platform Program (SIPP)	✓
Storage media *	SSD	Intel® OS Guard	✓
Total SSDs capacity	256 GB	Intel Software Guard Extensions (Intel SGX)	✓
Number of SSDs installed	1	Intel 64	✓
SSD capacity	256 GB	Execute Disable Bit	✓
SSD interface	PCI Express	Idle States	✓
SSD form factor	M.2	Thermal Monitoring Technologies	✓
Optical drive type *	✗	Processor package size	46x24 mm
Card reader integrated	✓	Supported instruction sets	SSE4.1, SSE4.2, AVX 2.0
Compatible memory cards	MicroSD (TransFlash)	CPU configuration (max)	1
Graphics		Embedded options available	✗
Discrete graphics card model *	Not available	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
Discrete graphics card *	✗	Processor ARK ID	193563
On-board graphics card model *	Intel® UHD Graphics 620	Battery	
On-board graphics card base frequency	300 MHz	Battery technology	Lithium Polymer (LiPo)
On-board graphics card dynamic frequency (max)	1150 MHz	Battery capacity *	48 Wh
Maximum on-board graphics card memory	32 GB	Battery life (max)	17.6 h
On-board graphics card DirectX version	12.0	Fast charging	✓
On-board graphics card OpenGL version	4.5	Security	
On-board graphics card ID	0x3EA0	Cable lock slot	✓
Audio		Cable lock slot type	Kensington
Audio chip	Realtek ALC3287	Trusted Platform Module (TPM)	✓
Audio system	Dolby Audio Premium	Password protection	✓
Number of built-in speakers	2	Password protection type	HDD, Power on, Supervisor
Speaker power	1 W	Certificates	
Built-in microphone	✓	Certification	MIL-STD-810G
Number of microphones	2	Sustainability	
Camera		Sustainability certificates	RoHS, TCO, EPEAT Gold, ENERGY STAR
Front camera	✓	Weight & dimensions	
Front camera HD type	HD	Width	312 mm
Privacy camera	✓	Depth	217 mm
Privacy type	Privacy shutter	Height	16.5 mm
Network			
Top Wi-Fi standard *	Wi-Fi 5 (802.11ac)		
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)		
Antenna type	2x2		
WLAN controller model	Intel Dual Band Wireless-AC 9560		
Ethernet LAN	✗		

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