



Lenovo ThinkPad T16g Gen 3 Intel Core Ultra 7 255HX Mobile workstation 40.6 cm (16") WUXGA 64 GB DDR5-SDRAM 1 TB SSD NVIDIA GeForce RTX 5080 Wi-Fi 7 (802.11be) Windows 11 Pro German Black



Brand : Lenovo

Product family: ThinkPad

Product code: 21V50001GE

Product name : ThinkPad T16g Gen 3



- Windows 11 Pro 64-bit
- Intel Core Ultra 7 255HX (30MB Cache)
- 40.6 cm (16") WUXGA 1920 x 1200 IPS, NVIDIA GeForce RTX 5080 (16GB GDDR7)
- 64GB (5600MHz) DDR5-SDRAM & 1000GB SSD
Intel Core Ultra 7 255HX (30MB Cache), 64GB DDR5-SDRAM, 1000GB SSD, 40.6 cm (16") WUXGA 1920 x 1200 IPS, Intel Graphics, NVIDIA GeForce RTX 5080 (16GB GDDR7), LAN, WLAN, Webcam, Windows 11 Pro 64-bit
Lenovo ThinkPad T16g Gen 3. Product type: Mobile workstation, Form factor: Clamshell. Processor family: Intel Core Ultra 7, Processor model: 255HX. Display diagonal: 40.6 cm (16"), HD type: WUXGA, Display resolution: 1920 x 1200 pixels. Internal memory: 64 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 1 TB, Storage media: SSD. On-board graphics card model: Intel® Graphics, Discrete graphics card model: NVIDIA GeForce RTX 5080. Operating system installed: Windows 11 Pro. Product colour: Black

Design		Camera	
Product type *	Mobile workstation	Front camera	✓
Product colour *	Black	Front camera resolution (numeric)	5 MP
Form factor *	Clamshell	Infrared (IR) camera	✓
Housing material	Aluminium	Privacy camera	✓
Display		Privacy type	Privacy shutter
Display diagonal *	40.6 cm (16")	Network	
Display resolution *	1920 x 1200 pixels	Top Wi-Fi standard *	Wi-Fi 7 (802.11be)
Touchscreen *	✗	Wi-Fi standards	Wi-Fi 7 (802.11be)
HD type	WUXGA	Mobile network connection *	✗
Panel type	IPS	Antenna type	2x2
LED backlight	✓	WLAN controller model	Intel Wi-Fi 7 BE200
Native aspect ratio	16:10	WLAN controller manufacturer	Intel
Anti-glare screen	✓	Ethernet LAN	✓
Display brightness	500 cd/m²	Ethernet LAN data rates	2500 Mbit/s
RGB colour space	sRGB	Bluetooth	✓
Colour gamut	100%	Bluetooth version	5.4
Maximum refresh rate	60 Hz	Near Field Communication (NFC)	✗
Contrast ratio (typical)	1200:1	Ports & interfaces	
Processor		USB 3.2 Gen 2 (3.1 Gen 2) Type-A ports quantity	2
Processor manufacturer *	Intel	Ethernet LAN (RJ-45) ports	1
Processor family *	Intel Core Ultra 7	HDMI ports quantity *	1
Processor generation	Intel Core Ultra (Series 2)	HDMI version	2.1
Processor model *	255HX	Thunderbolt 4 ports quantity	1
Processor cores	20	Thunderbolt 5 ports quantity	2
Processor threads	20	Intel® Thunderbolt 4	✓
Processor boost frequency	5.2 GHz	Intel® Thunderbolt 5	✓
Performance cores	8	Combo headphone/mic port	✓
Efficient cores	12	USB Type-C DisplayPort Alternate Mode	✓
Performance-core Max Turbo Frequency	5.2 GHz	USB Sleep-and-Charge	✓
Efficient-core Max Turbo Frequency	4.5 GHz	USB Sleep-and-Charge ports	1
Performance-core base frequency	2.4 GHz		
Efficient-core base frequency	1.8 GHz		

Processor		Performance	
Processor cache	30 MB	Motherboard chipset	Intel WM880
Processor base power	55 W	Keyboard	
Maximum turbo power	160 W	Pointing device	ThinkPad UltraNav
Neural processor unit (NPU)		Numeric keypad *	✓
Neural processor unit (NPU)	Intel AI Boost	Keyboard backlit	✓
Sparsity support	✓	Spill-resistant keyboard	✓
Windows Studio effects support	✓	Keyboard language	German
AI software frameworks supported by NPU	DirectML, OpenVINO, Windows ML, ONNX RT, WebNN	Copilot key	✓
Total processor performance up to	33 TOPs	Software	
NPU performance up to	13 TOPs	Operating system architecture	64-bit
GPU performance up to	8 TOPs	Operating system language	German
Memory		Operating system installed *	Windows 11 Pro
Internal memory *	64 GB	Bundled software	Lenovo AI Now
Internal memory type	DDR5-SDRAM	Battery	
Memory clock speed	5600 MHz	Battery technology	Lithium-Ion (Li-Ion)
Memory form factor	SO-DIMM	Battery capacity *	99.9 Wh
Memory layout (slots x size)	4 x 16 GB	Fast charging	✓
Memory slots	4x SO-DIMM	Power	
Memory channels	Dual-channel	AC adapter power	180 W
Storage		AC adapter frequency	50/60 Hz
Total storage capacity *	1 TB	AC adapter input voltage	100 - 240 V
Storage media *	SSD	USB Type-C charging port *	✓
Total SSDs capacity	1 TB	USB Power Delivery (USB PD)	✓
Number of SSDs installed	1	Security	
SSD capacity	1 TB	Cable lock slot	✓
SSD memory type	TLC	Cable lock slot type	Kensington
SSD interface	PCI Express 5.0	Fingerprint reader	✓
NVMe	✓	Smart card reader	✗
SSD form factor	M.2	Trusted Platform Module (TPM)	✓
M.2 SSD size	2280 (22 x 80 mm)	Trusted Platform Module (TPM) version	2.0
Optical drive type *	✗	Password protection	✓
Card reader integrated	✓	Password protection type	BIOS, Power on, Supervisor
Compatible memory cards	SD	Operational conditions	
Graphics		Operating temperature (T-T)	5 - 35 °C
Discrete GPU manufacturer	NVIDIA	Storage temperature (T-T)	5 - 43 °C
Discrete graphics card model *	NVIDIA GeForce RTX 5080	Operating relative humidity (H-H)	8 - 95%
Discrete graphics card memory	16 GB	Storage relative humidity (H-H)	5 - 95%
Discrete graphics memory type	GDDR7	Maximum shipping altitude	3048 m
On-board graphics card *	✓	Certificates	
On-board GPU manufacturer	Intel	Compliance certificates	RoHS
Discrete graphics card *	✓	Certification	TCO Certified, generation 10 MIL-STD-810H Eyesafe Certified 2.0 TÜV Rheinland Low Blue Light
On-board graphics card family	Intel® Graphics	Sustainability	
On-board graphics card model *	Intel® Graphics	Sustainability certificates	ENERGY STAR, EPEAT Gold
Audio		Weight & dimensions	
Audio chip	Cirrus Logic CS42L43	Width	362 mm
Audio system	Dolby Atmos	Depth	252 mm
Number of built-in speakers	2	Height	15.8 mm
Speaker power	2 W	Height (front)	1.58 cm
Built-in microphone	✓	Height (rear)	2.09 cm
Number of microphones	2	Weight *	2.54 kg

Packaging content

AC adapter included *





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