Lenovo ThinkPad P16 Gen 3 (21RQ0005MB)

Lenovo ThinkPad P16 Gen 3 21RQ - Intel Core Ultra 7 - 255HX / up to 5.2 GHz - Win 11 Pro - RTX PRO 2000 Blackwell - 32 GB RAM - 1 TB SSD TCG Opal Encryption 2, NVMe, Performance - 16" IPS 1920 x 1200 - 2.5 Gigabit Ethernet - Wi-Fi 7, Bluetooth - black - kbd: Belgium - with 3 Years Lenovo Premier Support, CO2 Offset 0.5 ton (2nd Gen)

The Lenovo ThinkPad P16 Gen 3 is designed for professionals needing robust performance and reliability in a mobile workstation. With a 16-inch IPS display featuring a 16:10 aspect ratio, this device provides a clear and colorful viewing experience, enhanced by technologies such as anti-glare, Low Blue Light, and Eyesafe for comfortable extended use. The dual array microphone and Dolby Atmos stereo speakers deliver an immersive audio experience, making it ideal for video conferencing and media consumption.

Key Selling Points

Powerful Intel Core Ultra 7 processor with 20 cores for efficient multitasking
High-speed PCIe 5.0 SSD for rapid file access and storage
Advanced cooling system to maintain optimal performance during intensive tasks
Robust security features including a fingerprint reader and discrete TPM 2.0
Durable design meets MIL-STD-810H standards for reliable outdoor use

Product Features

High-resolution display
The 16-inch display boasts a 16:10 aspect ratio and features technologies like X-Rite factory color calibration, ensuring accurate colors and image quality for creative work and presentations.

Fast data transfer
Equipped with PCIe 5.0 x4 interface, the storage supports high-speed data transfer rates, allowing for quicker file access and improved system responsiveness.

Advanced connectivity options
Includes multiple Thunderbolt ports, USB-C power delivery, and an HDMI interface, facilitating seamless connections to various peripherals and external displays.

Enhanced security features
Incorporates a fingerprint reader and a discrete Trusted Platform Module (TPM 2.0) security chip to provide an added layer of protection for sensitive information.

Efficient cooling technology
Designed with an advanced cooling system that ensures performance under heavy workloads while maintaining a quiet operating environment.

Main Specifications

Product Description	Lenovo ThinkPad P16 Gen 3 - AI Workstation - 16" - Intel Core Ultra 7 - 255HX - 32 GB RAM - 1 TB SSD - Belgium
Product Type	Mobile workstation - AI Workstation
Operating System	Win 11 Pro - Dutch / English / French / German
Processor	Intel Core Ultra 7 (Series 2) - 255HX / 2.4 GHz, up to 5.2 GHz / 30 MB Cache
Neural Processor Unit (NPU)	Intel AI Boost - up to 13 TOPS
Memory	32 GB DDR5 (2 x 16 GB)
Storage	1 TB SSD - TCG Opal Encryption 2, NVMe, Performance
Display	16" 1920 x 1200 / WUXGA @ 60 Hz
Graphics	NVIDIA RTX PRO 2000 Blackwell / Intel Graphics - up to 8 TOPS
Video Memory	8 GB GDDR7 SDRAM
Input Device	Keyboard, TrackPoint, UltraNav
Keyboard	Belgium
Keyboard Backlight	Yes
Numeric Keypad	Yes
Integrated Webcam	Yes

Microsoft Copilot	Yes
Networking	802.11a/b/g/n/ac/ax/be, Bluetooth 5.4, 2.5 Gigabit Ethernet
Security	Discrete Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader
Colour	Black
Dimensions (WxDxH)	36.2 cm x 25.2 cm x 2.98 cm
Weight	2.54 kg
Localisation	Language: English, German, French, Dutch / region: Belgium
Manufacturer Selling Program	Lenovo TopSeller
Environmental Standards	TCO Certified, generation 10, for notebooks, ENERGY STAR Qualified EPEAT Gold
Manufacturer Warranty	Base warranty - 3 years - pick-up and return ¦ Base warranty - battery - 1 year ¦ Extended warranty - 3 years - on-site - response time: next business day
Bundled Services	3 Years Lenovo Premier Support, CO2 Offset 0.5 ton (2nd Gen)

Extended Specification

General

Product Type	Mobile workstation
AI Level	AI Workstation
Operating System	Windows 11 Pro - Dutch / English / French / German

Memory

RAM	32 GB (2 x 16 GB)
Max RAM Supported	192 GB
Technology	DDR5 SDRAM - non-ECC
Speed	5600 MT/s
Rated Speed	5600 MT/s
Form Factor	SO-DIMM 262-pin
Slots Qty	4
Empty Slots	2

Manufacturer Warranty

Service & Support	Base warranty - 3 years - pick-up and return ¦ Base warranty - battery - 1 year ¦ Extended warranty - 3 years - on-site - response time: next business day
Bundled Services	3 Years Lenovo Premier Support, CO2 Offset 0.5 ton (2nd Gen)

Storage

Main Storage	1 TB SSD M.2 2280 PCIe 5.0 x4 - TCG Opal Encryption 2, NVM Express (NVMe), Performance
RAID Level	RAID 0, RAID 1, RAID 5

Miscellaneous

Colour	Black
Case Material	Aluminium (top), aluminium (bottom)
Security	Discrete Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader
Features	Administrator password, power-on password, RapidCharge, MIL-STD-810H tested, self-healing BIOS, NVMe password
Theft/Intrusion Protection	Security lock slot (cable lock sold separately)
Security Slot Type	Kensington nano security slot
Included Accessories	USB-C GaN power adapter
Compliant Standards	RoHS, FIPS 140-2, TCG Certified, TÜV Rheinland Low Blue Light, Eyesafe Certified 2.0
Localization	Language: English, German, French, Dutch / region: Belgium

Manufacturer Selling Program	Lenovo TopSeller

Environmental Parameters

Min Operating Temperature	5 °C
Max Operating Temperature	35 °C
Humidity Range Operating	8 - 95%

Software

Software Included	Lenovo AI Now
Microsoft Copilot	Yes

Display

Type	16" - IPS
Resolution	1920 x 1200 (WUXGA)
V-Sync Rate at Max Res.	60 Hz
Widescreen	Yes
Image Aspect Ratio	16:10
Image Brightness	500 cd/m²
Horizontal Viewing Angle	+89 / -89
Vertical Viewing Angle	+89 / -89
Colour Gamut	100% sRGB
Features	Anti-glare, Low Blue Light technology, Low Power, Eyesafe technology, 82% screen-to-body ratio, DC dimming, X-Rite factory colour calibration

Battery

Technology	Lithium polymer
Capacity	99.9 Wh

Communications

Wireless	802.11a/b/g/n/ac/ax/be, Bluetooth 5.4
Wireless Controller	Intel WI-FI 7 BE200
Network Interface	2.5 Gigabit Ethernet
Ethernet Controller	Intel I226-V
Features	Wake-on-LAN (WOL), dual stream (2x2)

Dimensions & Weight

Dimensions (WxDxH)	36.2 cm x 25.2 cm x 2.98 cm
Weight	2.54 kg

Processor / Chipset

CPU	Intel Core Ultra 7 (Series 2) 255HX / 2.4 GHz
Max Turbo Speed	5.2 GHz
Number of Cores	20-core
Performance Cores	8
Efficient Cores	12
Cache	30 MB
Features	Integrated memory controller

Audio & Video

Multi-GPU Configuration	1 single GPU card / integrated GPU
Graphics Processor	NVIDIA RTX PRO 2000 Blackwell / Intel Graphics - up to 8 TOPS
Video Memory	8 GB GDDR7 SDRAM
Max Monitors Supported	4 external monitor(s)
Camera	Yes
Resolution	5 Megapixel
Camera Features	Privacy shutter, IR camera, fixed focus, Temporal Noise Reduction, Computer Vision Human Presence Detection on ISP
Sound	Stereo speakers, dual array microphone
Codec	CS42L43
Compliant Standards	Dolby Atmos, SoundWire
Audio Features	Input: Dolby Voice, far-field

Input

Type	Keyboard, TrackPoint, UltraNav
Keyboard Backlight	Yes
Keyboard Layout	Belgium
Numeric Keypad	Yes
Features	Multimedia control, spill-resistant, multi-touch touchpad, Copilot key

AC Adapter

Input	AC 100-240 V (50/60 Hz)
Output	180 Watt

Connections & Expansion

Slots	1 x M.2 (PCI Express 5.0 x4) (0 available) ¦ 2 x M.2 (PCI Express 4.0 x4) (2 available)
Interfaces Details	USB 3.2 Gen 2 (Always On) ¦ USB 3.2 Gen 2 ¦ 2 x Thunderbolt 5 (Power Delivery 3.1) ¦ Thunderbolt 4 (Power Delivery 3.1) ¦ HDMI (8K support) ¦ Headphone/microphone combo jack (mini-phone 3.5 mm) ¦ LAN (RJ-45)
Memory Card Reader	Yes (SD Express Card)

Sustainability Information

TCO Certified	- TCO Certified, generation 10, for notebooks
EPEAT Compliant	EPEAT Gold
ENERGY STAR Certified	Yes

Neural Processor Unit (NPU)

Neural Processor Unit (NPU)	Intel AI Boost
NPU Performance Up To (TOPS)	13 TOPS
Total Processor Performance Up To (TOPS)	33 TOPS
AI Datatype Support on NPU	INT8
Sparsity Support	Yes
AI Software Frameworks Supported by NPU	DirectML, OpenVINO, WebNN, WindowsML, ONNX RT
Windows Studio Effects Support	Yes