

## Lenovo ThinkPad P16v Gen 3 (21RS0008MB)

Lenovo ThinkPad P16v Gen 3 21RS - Intel Core Ultra 7 - 255H / up to 5.1 GHz - Win 11 Pro - RTX PRO 1000 Blackwell - 32 GB RAM - 1 TB SSD TCG Opal Encryption 2, NVMe, Performance - 16" IPS 1920 x 1200 - Gigabit Ethernet - Wi-Fi 7, Bluetooth - black - kbd: Belgium - with 1 Year Lenovo Premier Support, CO2 Offset 0.5 ton (2nd Gen)



The Lenovo ThinkPad P16v Gen 3 is a mobile workstation that excels in performance and versatility. Designed for professionals who demand reliability, this laptop features a 16-inch anti-glare display with a 16:10 aspect ratio, allowing for a comfortable viewing experience. Integrated with Intel Core Ultra 7 processor, it offers 16 cores and is paired with NVIDIA RTX graphics, suitable for demanding applications and multitasking needs. Equipped with audio capabilities, including Dolby Audio and stereo speakers, the device ensures sound for an immersive experience. Security is prioritized with features such as a fingerprint reader and a discrete Trusted Platform Module (TPM 2.0) security chip. The ThinkPad P16v Gen 3 also includes connectivity options, including Thunderbolt 4 and HDMI ports, enhancing its versatility for various peripherals and displays.

## Key Selling Points

- 16-inch anti-glare display with 60 Hz refresh rate
- Powered by Intel Core Ultra 7 processor and NVIDIA RTX graphics
- Robust security features including fingerprint reader and TPM 2.0 chip
- Compliant with energy-saving standards such as EPEAT Gold and ENERGY STAR
- Diverse connectivity options with Thunderbolt 4 and USB-C support

## Product Features

- High-quality audio**  
The dual array microphone and Dolby Audio compliance deliver an audio experience, ensuring clear sound for meetings and entertainment.
- Robust security options**  
Featuring a fingerprint reader and a privacy shutter on the webcam, the device prioritizes user privacy and data security.
- Efficient cooling system**  
The aluminum and polycarbonate ABS construction helps to dissipate heat effectively, maintaining performance even during intense usage.
- Dynamic connectivity**  
Equipped with Thunderbolt 4 and multiple USB ports, this laptop allows for quick connections to various devices and supports high-speed data transfer.
- Versatile expansion slots**  
With two M.2 expansion slots, the Lenovo ThinkPad P16v Gen 3 offers flexibility for upgrading SSD storage to meet growing data demands.

## Main Specifications

Product Description	Lenovo ThinkPad P16v Gen 3 - AI Workstation - 16" - Intel Core Ultra 7 - 255H - 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) - 255H / 2 GHz, up to 5.1 GHz / 24 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 1000 Blackwell / Intel Arc 140T - up to 74 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, Gigabit Ethernet
Security	Discrete Trusted Platform Module (TPM 2.0) Security Chip, fingerprint reader

Colour	Black
Dimensions (WxDxH)	36.15 cm x 24.86 cm x 2.63 cm
Weight	2.1 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 - 1 year - on-site - response time: next business day
Bundled Services	1 Year 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	96 GB
Technology	DDR5 SDRAM - non-ECC
Speed	5600 MT/s
Rated Speed	5600 MT/s
Form Factor	SO-DIMM 262-pin
Slots Qty	2
Empty Slots	0

### Manufacturer Warranty

Service & Support	Base warranty - 3 years - pick-up and return   Base warranty - battery - 1 year   Extended warranty - 1 year - on-site - response time: next business day
Bundled Services	1 Year 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, NVMe Express (NVMe), Performance
RAID Level	RAID 0, RAID 1

### Miscellaneous

Colour	Black
Case Material	Aluminium (top), polycarbonate ABS (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, bottom cover tamper detection
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/m <sup>2</sup>
Horizontal Viewing Angle	+85 / -85
Vertical Viewing Angle	+85 / -85
Colour Gamut	100% sRGB
Features	Anti-glare, Low Blue Light technology, Low Power, Eyesafe technology, DC dimming, AICCP colour calibration, 87.7% screen-to-body ratio

## Battery

Technology	Lithium polymer
Capacity	90 Wh

## Communications

Wireless	802.11a/b/g/n/ac/ax/be, Bluetooth 5.4
Wireless Controller	Intel WI-FI 7 BE201
Network Interface	Gigabit Ethernet
Ethernet Controller	Intel I219-V
Features	Wake-on-LAN (WOL), dual stream (2x2)

## Dimensions & Weight

Dimensions (WxDxH)	36.15 cm x 24.86 cm x 2.63 cm
Weight	2.1 kg

## Processor / Chipset

CPU	Intel Core Ultra 7 (Series 2) 255H / 2 GHz
Max Turbo Speed	5.1 GHz
Number of Cores	16-core
Performance Cores	6
Efficient Cores	10
Cache	24 MB
Features	Integrated memory controller

## Audio & Video

Multi-GPU Configuration	1 single GPU card / integrated GPU
Graphics Processor	NVIDIA RTX PRO 1000 Blackwell / Intel Arc 140T - up to 74 TOPS
Video Memory	8 GB GDDR7 SDRAM

Max Monitors Supported	3 external monitor(s)
Camera	Yes
Resolution	5 Megapixel
Camera Features	Privacy shutter, IR camera, Windows Hello, fixed focus, Temporal Noise Reduction, Ultrasonic Human Presence Detection
Sound	Stereo speakers, dual array microphone
Codec	Realtek ALC3287
Compliant Standards	High Definition Audio, Dolby Audio
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	140 Watt

## Connections & Expansion

Slots	2 x M.2 (PCI Express 4.0 x4) (1 available)
Interfaces Details	USB 3.2 Gen 2 (Always On) † USB 3.2 Gen 2 † HDMI (8K support) † Headphone/microphone combo jack (mini-phone 3.5 mm) † LAN (RJ-45) † 2 x Thunderbolt 4 (Power Delivery 3.1)
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)	96 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

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