

Lenovo
ThinkPad

Lenovo ThinkPad P16v / Gen 2

Mobile Workstation Packed with Performance

Lenovo



Built for power users who require the flexibility of working anywhere at any time, the Lenovo ThinkPad P16v *i* takes everything in stride, closing the gap in price and performance between entry-level and high-end workstations. Packed with the latest Intel® Core™ Ultra processors featuring Intel vPro®, integrated Neural Processing Unit (NPU) for Artificial Intelligence (AI) tasks and NVIDIA RTX™ professional GPUs for more complex AI workflows. Workstations excel with performance, agility, cost efficiency and are packed with power to analyze data in real-time. Supporting up to NVIDIA RTX™ 3000 Ada Generation mobile GPU in a chassis featuring a 16-inch 16:10 display, this workstation delivers a fast and visually stunning representation of your work.

Processor:

5.1GHz
16 Cores

Intel® Core™ Ultra processors with Intel vPro®

Graphics:

NVIDIA RTX™
3000 Ada

High-performance professional graphics and AI acceleration

Memory:

96GB
DDR5

2x SoDIMMs
5600MHz¹

Storage:

4TB M.2
PCIe® Gen4

Up to two 2TB NVMe Performance SSDs

Features



Modernized Design
Built with sustainable materials and certifications



16" 16:10 Display
Four high quality options to suit your budget



Security
The latest security features including dTPM 2.0, an embedded chip dedicated to storing encryption keys



ISV Certifications
Certified by many of the leading industry software applications

Lenovo ThinkPad P16v / Gen 2 Product Specifications[^]

Performance

Processor

Up to Intel® Core™ Ultra 9 processors with Intel vPro® (up to 16 cores, up to 5.1GHz)[^]

Graphics

Discrete: up to NVIDIA RTX™ 3000 Ada Generation 8GB mobile GPU

Processor Integrated: Intel® Arc™²

Total Memory

Up to 96GB DDR5 5600MHz¹

Memory DIMM Capacity

8GB / 16GB / 32GB / 48GB
2 SoDIMM slots

Total Storage

Up to 4TB M.2 PCIe® Gen4 NVMe Performance SSD

Up to 2 x 2TB drives

RAID

0/1

Camera

FHD Camera with ThinkPad Webcam Privacy Shutter

5MP RGB + IR Camera with ThinkPad Webcam Privacy Shutter and Human Presence Detection

Battery

90Whr

Power Supply

135W Slim

170W Slim

Design

Dimensions (WxDxH)

(mm): 365.00 x 262.00 x 24.66

(inches): 14.37 x 10.32 x 0.97

Weight

Starting at 2.22kg / 4.90lbs

Maximum 2.45kg / 5.40lbs

Keyboard

ThinkPad Keyboard with Numeric Keypad, Backlit, Spill Resistant

Display

16" 16:10 Display

WQUXGA (UHD+) (3840x2400)

- IPS, 800nit, 100% DCI-P3, HDR400, Dolby Vision®, X-Rite FCC, Anti-Glare, Low Blue Light, TÜV Eyesafe®

WUXGA (FHD+) (1920 x 1200)

- IPS, 400nit, 100% sRGB, Anti-Glare, Low Blue Light

- IPS Touch, 300nit, 45% NTSC, Anti-Glare, Low Blue Light, TÜV Eyesafe

- IPS, 300nit, 45% NTSC, Anti-Glare

Connectivity

Ports

(1) USB-A (5Gbps)[†], 1 Always On

(2) USB-C® (Thunderbolt™ 4)

(1) HDMI 2.1[†]

(1) RJ-45

(1) Mic/Headphone Combo Jack

(1) SD Express 7.0 Card Reader

(1) Smart Card Reader³

Wireless Connectivity

Intel® AX211 (2x2ax) Wi-Fi 6E + Bluetooth™ 5.3 vPro^{4,5}

Qualcomm EM160R-GL, QC X24 4G LTE CAT16³

Qualcomm RM520N-GL, QC SDX62 sub-6GHz^{3,6}

Near Field Communication (NFC)³

Media Card Reader

SD Express 7.0 Card Reader

1 Memory spec frequency listed; system support frequency may vary by configuration

2 Dual RAM channel required

3 Optional

4 6GHz channel of Wi-Fi 6E is only available with Windows 11

5 Bluetooth may be limited by OS

6 Available in select countries

[^] For a full list of configuration details please visit: <https://psref.lenovo.com>

* USB port transfer speeds are approximate and depend on many factors, such as processing capability of host/peripheral devices, file attributes, system configuration and operating environments; actual speeds will vary and may be less than expected.



Unlock new AI experiences



Smarter
technology
for all

Lenovo

Lenovo Options & Accessories



ThinkVision P32pz-30 Display



ThinkPad Workstation Thunderbolt™ 4 Dock



ThinkPad Professional 16" Backpack Gen 2



Scan for system overview, supported components, and technical specifications.

For a full list of accessories and options, please visit: accsmartfind.lenovo.com

For more details on ThinkStation and ThinkPad, please visit: lenovo.com/workstations

Visit us on social media: [#lenovoworkstations](https://twitter.com/lenovoworkstations)



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Lenovo ThinkPad P16v / Gen 2 General Specifications[^]

Software

Operating System

Windows 11 Pro
Windows 11 Home
Ubuntu® Linux^①
Red Hat® Enterprise Linux^②

Windows Preloads

Lenovo Commercial Vantage

Additional Features

Ultra Performance Mode
Self Healing BIOS

ISV Certifications

Including Adobe®, Altair®, ANSYS®, Autodesk®, AVID®, Barco®, Bentley®, Dassault®, Nemetschek®, PTC®, Siemens®

For a complete list of ISV certifications visit <https://thinkworkstations.com/>

Security

Intel vPro® security

ThinkShield

dTPM 2.0
Touch Fingerprint Reader
ThinkPad Webcam Privacy Shutter
Kensington Lock Slot

Sustainability

Materials

90% Recycled Magnesium C Cover
30% PCC Plastic D Cover
30% PCC Plastic 135W Slim AC Adapter
30% PCC Plastic 170W Slim AC Adapter
Low Temperature Solder³
Plastic free packaging with 90% recycled and/or FSC certified content^{4,5}

Certifications

EPEAT^{⑥,7} Gold
ENERGY STAR^⑥
RoHS Compliant
TCO 9.0

Recommended Services

Lenovo's Premier Support Plus

delivers advanced anywhere, anytime seamless support with AI-powered, proactive and preventative services. Also includes Accidental Damage Protection, extended battery warranty (for eligible devices) and Keep Your Drive. You'll minimize downtime, boost productivity, enhance the experience, and free up in-house IT resources from break/fix maintenance.

Warranty Extensions & Upgrades

Lenovo offers a range of warranty upgrades to suit your business needs, such as next business day upgrades. Warranty extensions allow you to control your device budget, protect your investment and potentially lower the cost of ownership over time.

Lenovo's Asset Recovery Services

(ARS) enables secure destruction of data, helps reduce e-waste, and offers a fair market value for your end-of-life IT assets. The service also supports equipment from any manufacturer including PCs & tablets, monitors, servers, phones, printers, copiers and networking equipment.

Lenovo CO₂ Offset Service

makes offsetting carbon emissions simple and within the control of the customer. We offset the carbon emissions across the average lifecycle associated with each of our devices by providing the option at point of purchase. These offsets help support climate action projects verified by United Nations, Gold Standard®, and Climate Action Reserve.

1 Select versions available via preload

2 Red Hat Enterprise Linux select versions certified

3 SSD, fingerprint reader module, ClickPad

4 Product packaging shall contain, on average, a minimum total percentage of 90% by weight of any combination of the following materials: Recycled content, biobased plastic, non-wood biobased fiber material, and/or sustainably forested material

5 Standard / bulk

6 Certification available on select models

7 EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country

[^] For a full list of configuration details please visit: <https://psref.lenovo.com>



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