

# ThinkPad P16v Gen 2 (Intel)

## PSREF

Product Specifications  
Reference

### PERFORMANCE

**Processor**  
Intel® Core™ Ultra 7 165H, 16C (6P + 8E + 2LPE) / 22T, Max Turbo up to 5.0GHz, 24MB

**AI PC Category**  
AI-Ready Workstations

**NPU**  
Integrated Intel® AI Boost, up to 11 TOPS

**Graphics**  
NVIDIA® RTX 2000 Ada Generation 8GB GDDR6

**Chipset**  
Intel® SoC Platform

**Memory**  
2x 48GB SO-DIMM DDR5-5600 Non-ECC

**Memory Slots**  
Two DDR5 SO-DIMM slots, dual-channel capable

**Max Memory**  
Up to 96GB (2x 48GB DDR5 SO-DIMM)

**Storage**  
2TB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0

**Storage Support<sup>[1]</sup>**  
Up to two drives, 2x M.2 SSD  
• M.2 2280 SSD up to 4TB, 2TB each

**Storage Slot**  
Two M.2 2280 PCIe® 4.0 x4 slots

**Card Reader**  
SD Express 7.0 Card Reader

**Audio Chip**  
High Definition (HD) Audio, Realtek® ALC3287 codec

**Speakers**  
Stereo speakers, 2W x2, Dolby Audio™ Premium

**Camera**  
5.0MP + IR with Privacy Shutter and Human Presence Detection

**Microphone**  
2x, Array

**Battery**  
Integrated 90Wh

**Power Adapter**  
170W Slim Tip (3-pin)

### DESIGN

**Display**  
16" WQUXGA (3840x2400) IPS 800nits Anti-glare, 100% DCI-P3, DisplayHDR™ 400, Dolby Vision®, Eyesafe®, TÜV Low Blue Light

**Color Calibration**  
Factory Color Calibration

**Keyboard**  
Backlit, English

**Case Color**  
Black

**Case Material**  
PC-ABS (Top), PC-ABS (Bottom)

**Pen**  
Pen Not Supported

**Dimensions (WxDxH)<sup>[2]</sup>**  
365 x 262 x 24.66 mm (14.37 x 10.32 x 0.97 inches)

**Weight<sup>[3]</sup>**  
Starting at 2.22 kg (4.90 lbs)

### SOFTWARE

**Operating System**  
Windows® 11 Pro, English

**Bundled Software**  
Intel® Connectivity Performance Suite

### CONNECTIVITY

**Ethernet**  
100/1000M (RJ-45)

**WLAN + Bluetooth<sup>[4]</sup>**  
Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.3

**WWAN**  
WWAN Upgradable to 4G or 5G

- Standard Ports**
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
  - 2x USB-C® (Thunderbolt™ 4 / USB4® 40Gbps), with USB PD 3.0 and DisplayPort™ 2.1
  - 1x HDMI® 2.1, up to 8K/60Hz
  - 1x Headphone / microphone combo jack (3.5mm)
  - 1x Ethernet (RJ-45)
  - 1x SD Express 7.0 card reader
  - 1x Security keyhole

**Optional Ports (configured)**  
1x Nano-SIM Card Slot

**Docking**  
Various docking solutions supported via Thunderbolt™ or USB-C®.

For more compatible docking solutions, please visit .  
[Docking for ThinkPad® P16v Gen 2](#)

### SECURITY & PRIVACY

**Security Chip**  
Discrete TPM 2.0 Enabled

**Fingerprint Reader**  
Touch Style, Match-on-Chip, Integrated in Power Button

**Physical Locks**  
Kensington® Nano Security Slot™, 2.5 x 6 mm

- Other Security**
- Camera privacy shutter (camera models)
  - Ultrasonic Human Presence Detection for IR camera
  - IR camera for Windows® Hello (facial recognition)

### MANAGEABILITY

**System Management**  
Intel® vPro® Enterprise

### SERVICE

**Base Warranty**  
3-year, Courier or Carry-in

**Included Upgrade**  
3Y Premier Support Upgrade from 3Y Courier/Carry-in

### CERTIFICATIONS

- Green Certifications<sup>[5]</sup>**
- ENERGY STAR® 8.0
  - EPEAT™ Gold Registered
  - RoHS compliant
  - TCO Certified 9.0

- Other Certifications**
- Eyesafe® Certified 2.0
  - TÜV Rheinland® Low Blue Light

**Mil-Spec Test**  
MIL-STD-810H military test passed

**ISV Certifications**  
Please visit [ISV certifications for Lenovo® Workstations](#)

### MODEL

|                        |                |                       |              |
|------------------------|----------------|-----------------------|--------------|
| <b>TopSeller</b>       | : Yes          | <b>Announce Date</b>  | : 2024-04-23 |
| <b>EAN / UPC / JAN</b> | : 198153362776 | <b>End of Support</b> | : 2030-11-23 |

Note:

[1] The storage capacity supported is based on the test results with current Lenovo storage offerings.

[2] The system dimensions may vary depending on configurations.

[3] The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

[4] Wi-Fi 6E full features might be limited by country-level.....

· Lenovo reserves the right to change specifications without notice.

· California Electronic Waste Recycling Fee In California, per state law, Lenovo charges an electronic waste recycling fee on this covered device at the time of sale of the product. For more information, go to: <https://www.calrecycle.ca.gov/Electronics/Consumer>

To see more note information, please link to  
<https://psref.lenovo.com/Detail/2485?M=21KX002DUS>

## Premier Support - A direct 24x7x365 line to our most elite technicians.

Advanced technical support, 24x7x365, in more than 100 markets

Technical Account Managers for proactive relationship and escalation management

Comprehensive hardware & OEM software support

Priority on service delivery and repair parts

Single point of contact for simplified end-to-end case management

Lenovo Service Connect Portal for customized reporting and product support

## Accidental Damage Protection - Protection of your PC from the unexpected.

Experience shows that a significant portion of devices may be damaged (and not covered under warranty) in the first three years. Lenovo's Accidental Damage Protection service covers accidents beyond the system warranty such as drops, spills, bumps and even electrical surges. Make sure your new device has maximum protection, avoid unplanned costs and get peace of mind.

## Base Warranty - Included with the systems you purchase, default 1- or 3-year coverage window.

## Warranty Extensions & Upgrades - Service and protection that's right for your circumstances.

- Pick Up & Return Courier
- Onsite Support
- Technician Installed Customer
- Replaceable Unit Service
- International Warranty Upgrade

Lenovo may not offer the products, services or features discussed in this document in all regions. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area. Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. Lenovo provides this publication "as is" without warranty of any kind, either express or implied, including the implied warranties of merchantability or fitness for a particular purpose.

## Recommended Accessories

### ThinkPad Universal USB-C Dock

THE SMARTER WAY TO WORK Introducing the ThinkPad Universal USB-C Dock. This advanced, universally compatible one-cable docking solution lets you work smarter, not harder. It comes with a vast array of ports, next-gen ...

## Recommended Services

|        |                                                                      |
|--------|----------------------------------------------------------------------|
| BEST   | 4Y Premier Support Plus upgrade from 3Y Premier Support (5WS1M86981) |
| BETTER | 3Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39490) |
| GOOD   | 4Y Premier Support upgrade from 3Y Premier Support (5WS1H31743)      |

For a full list of accessories and services, please visit:  
<https://smartfind.Lenovo.com>

**PSREF**  
Product Specifications  
Reference