Lenovo
ThinkPad

Lenovo ThinkPad P16s Gen 5 AMD
Mobility for Mission-critical Workloads

AMD RYZEN AI PRO 400 Series

The Lenovo ThinkPad P16s AMD redefines mainstream mobile workstations, elevating its performance and versatility to a higher class. Built for professionals who demand power and portability, this generation delivers significant upgrades in a sleek chassis weighing under 2kg. Featuring AMD Ryzen™ AI PRO 400 Series processors, a dedicated AMD XDNA™ 2 NPU, up to NVIDIA RTX PRO™ 2000 Blackwell Generation Laptop GPU, and lightning-fast LPCAMM2 memory, the P16s handles complex workflows with ease—from 3D design and real-time simulation to video editing and generative modeling. And with up to 658 TOPS of AI performance, it's ready for next-generation applications and Copilot+ experiences.

Processor:
5.2GHz 12 Cores
AMD Ryzen AI PRO 400 Series

Graphics:
8GB GDDR7 VRAM
NVIDIA RTX PRO 2000 Blackwell Generation Laptop GPU

Memory:
96GB LPDDR5x
8533MT/s[1]

AI:
658 TOPS
CPU package: up to 86 TOPS
GPU: up to 572 TOPS
Total: up to 658 TOPS

Features

Enhanced Graphics Options
Support for the NVIDIA RTX PRO platform or integrated AMD Radeon™ graphics, ensuring accelerated AI capabilities, rapid content creation, and seamless multitasking.

Next-Level Productivity with On-Device AI
Power AI workloads with a dedicated AMD XDNA 2 NPU and Microsoft Copilot+ support without relying on cloud connectivity.

Designed for Mobility
Featuring advanced connectivity options like 5G WWAN and a lightweight chassis less than 2kg for sustained performance on-the-go.

Lenovo ThinkPad P16s Gen 5 AMD
Product Specifications^

Performance

Processor

Up to AMD Ryzen AI 9 HX PRO 470 (up to 12 cores, up to 5.2GHz)^

Graphics

Discrete: up to NVIDIA RTX PRO 2000 Blackwell Generation Laptop GPU (8GB)

Processor Integrated: up to AMD Radeon 890M, AMD RDNA™ 3.5 Architecture + AMD PRO Graphics Driver

AI

CPU package: up to 86 TOPS
NPU: up to 55 TOPS
GPU: up to 572 TOPS
Total: Up to 658 TOPS

Total Memory

Up to 96GB LPDDR5x 8533MT/s[1]

Memory Capacity

16GB / 32GB / 64GB / 96GB

1 Slots

Total Storage

Up to 4TB NVMe PCIe® Gen5 Performance SSD^

1 Drive

Camera

5MP RGB with ThinkPad Webcam Privacy Shutter

5MP RGB, IR, CV with ThinkPad Webcam Privacy Shutter and Human Presence Detection[2]

Battery

60WHr, 90WHr, Customer Replaceable

Rapid Charge

Power Supply

100W USB-C® (160cc)

140W USB-C (165cc)

Design

Dimensions (Width x Depth x Front / Rear, Max)

357.9 x 247.9 x 11.45 / 18.15, 23.3mm

14.09 x 9.75 x 0.45 / 0.71, 0.92in

Weight

Starting at 1.81kg / 3.99lbs

Keyboard

ThinkPad Backlit or non-Backlit, Spill Resistant with Numeric Keypad and Copilot Key

Customer Replaceable

Display

16" 16:10 Display

2.8K (2880 x 1800)

- OLED, 500nit, 100% DCI-P3, 120Hz, Anti-Glare, Dolby Vision®, HDR 1000 True Black, X-Rite Factory Color Calibration, Eyesafe®

WUXGA (FHD+) (1920 x 1200)

- IPS Touch, 500nit, Low Power, 100%, 60Hz, sRGB, Anti-Glare, Adaptive ICC Profile, Eyesafe
- IPS 400nit, 45% NTSC, 60Hz, Anti-Glare, Adaptive ICC Profile

Connectivity

Ports

(2) USB-A 3.1 (5Gbps)*, 1 Always On

(2) USB-C (Thunderbolt™ 4)*

(1) HDMI® 2.0^

(1) Mic/Headphone Combo Jack

(1) RJ-45 Gigabit Ethernet

(1) SD Express 8.0

(1) Smart Card Reader[2]

Wireless Connectivity

Intel Wi-Fi® 7 BE211 (2x2be) + Bluetooth® 6[3]

Foxconn Snapdragon X61 5G Modem-RF System 5G sub-6GHz CAT20 with eSIM[2,4]

Near Field Communication (NFC)[2]

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

2 Optional

3 Bluetooth may be limited by OS

4 eSIM not available in PRC

^ 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.

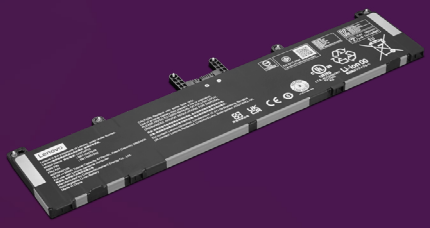
AMD RYZEN AI PRO 400 Series

Lenovo

Lenovo Options & Accessories

ThinkVision P27QD-40 Display

ThinkPad Thunderbolt 5 Smart Dock 7500



ThinkPad 4-cell 90Wh Li-ion Replacement Battery

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

Lenovo ThinkPad P16s Gen 5 AMD
General Specifications^

Software

Operating System

Windows 11 Pro
Windows 11 Home
Ubuntu® Linux®
Red Hat® Enterprise Linux®
Fedora® Linux

Windows Preloads

Lenovo Commercial Vantage

Additional Features

Ultra Performance Mode
Discrete Graphics Mode (via HDMI only)

ISV Certifications

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

For a complete list of ISV certifications visit http://www.thinkworkstations.com

Security

ThinkShield

dTPM 2.0
Self Healing BIOS
Touch Fingerprint Reader
ThinkPad Webcam Privacy Shutter
Human Presence Detection[1]
Kensington Lock Slot

Sustainability

Materials

50% Recycled Aluminum A Cover
90% Recycled Magnesium Aluminium C cover
30% PCC Recycled D Cover (WLAN)
45% PCC Recycled D Cover(WWAN)
85% PCC Key Caps (non-Black)
90% PCC Speaker Enclosure
97% PCC Battery Pack Enclosure
90% PCC 100W/140W AC Adapter
Low Temperature Solder[2]
Plastic Free Packaging with 90% Recycled and/or FSC Certified Content[3,4]

Certifications

EPEAT®[5,6] Gold
ENERGY STAR® 9.0[5]
RoHS Compliant
TCO 10.0
MIL-STD-810H

Smarter technology for all

Lenovo

Software Solutions

Lenovo Performance Tuner (LPT)

A free performance optimization tool designed for ThinkStation P and ThinkPad P Series workstations. It helps professionals get the most out of their hardware by dynamically adjusting system resources for demanding applications.

Linux

Lenovo delivers out-of-the-box Linux support by certifying the entire portfolio of ThinkStation and ThinkPad P Series workstations. This commitment prioritizes the needs of specialized users, guaranteeing a seamless and optimized Linux experience.

1 Optional
2 SSD, Fingerprint Reader Module
3 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
4 Standard / bulk
5 Certification available on select models
6 Certification available on select models; 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**

AMD

Lenovo Solutions to Enhance Your Business Productivity

Lenovo offers solutions that help organizations run smoother and move faster. Lenovo Commercial Services reduce IT complexity, speed deployment, and keep devices optimized throughout their lifecycle. Lenovo ThinkShield delivers comprehensive, modern and resilient protection across every layer from supply chain to cloud, helping teams stay productive and compliant. Integrated into Lenovo Workstations, these solutions ensure that high-performance devices remain protected, optimized, and ready to meet the demands of modern workflows. The result is greater resilience and simpler management with less effort.

Lenovo Services

Protection & Support Services

Designed to help maintain and evolve the capabilities of your devices over their lifespan with flexible options for warranty extensions, Lenovo Protection & Support Services also help minimize unplanned operating and maintenance expenses, enhancing the budget predictability of your IT operations.

- **Premier Support Plus**
- **Premier Support**
- **Accidental Damage Protection**

Digital Workplace Solutions with Lenovo xIQ Digital Workplace Platform

Lenovo's comprehensive and flexible suite of Digital Workplace Solutions, powered by Gen AI technology, Lenovo xIQ Digital Workplace Platform creates a hyper-personalized experience that boosts employee satisfaction and productivity, automating workflows to streamline tasks and reduce IT strain.

- **TruScale DaaS**
- **TruScale DaaS for Sustainability**
- **TruScale DaaS for AI PC**
- **Security Services**
- **Managed Services**

AI Services

From strategy to scale, Lenovo helps you design, deploy, and manage secure AI solutions that align with your goals and deliver measurable ROI.

- **AI Discover**
- **AI Adoption & Change Management**

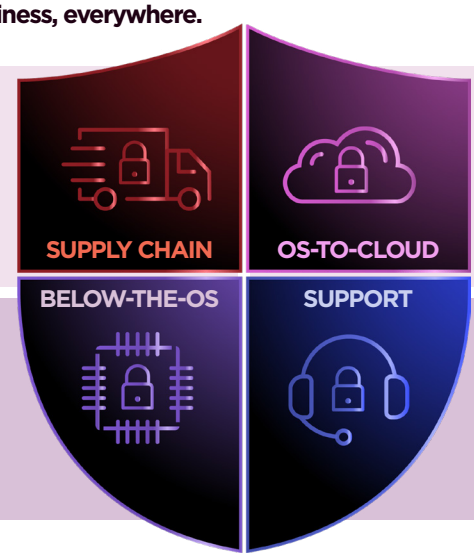
Security: Lenovo ThinkShield

Lenovo is committed to being our customer's most trusted technology supplier. ThinkShield delivers comprehensive, modern, and resilient solutions to defend your business.

Lenovo ThinkShield, protecting your business, everywhere.

Secure from the start

End-to-end supply chain protection with verifiable hardware and software assurance.



Smarter protection (AI+XDR)

End-to-end supply chain protection with verifiable hardware and software assurance.

Integrity at every level

Fleet-wide firmware and hardware defense against rogue devices and advanced attacks.

Always on

Expert protection and support, seamlessly handled by one trusted partner, 24x7.

Fueled by delivering smarter technology for all, Lenovo ThinkShield is constantly evolving our hardware, software and services to provide reliable security solutions to defend your business—without compromising end-user productivity.

Learn more at Lenovo.com/Services and Lenovo.com/ThinkShield

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