



PERFORMANCE

**Processor**  
Intel Core™ Ultra 7 255H, 16C (6P + 8E + 2LPE) / 16T, Max Turbo up to 5.1GHz, 24MB Intel® Smart Cache

**AI PC Category**  
AI-Ready Workstations

**NPU**  
Integrated Intel® AI Boost, up to 13 TOPS

**Graphics**  
NVIDIA® RTX PRO 500 Blackwell Generation 6GB GDDR7 Laptop GPU

**Chipset**  
Intel® SoC Platform

**Memory**  
2x 16GB SODIMM DDR5-5600 Non-ECC

**Memory Slots**  
Two DDR5 SODIMM / CSODIMM slots, dual-channel capable

**Max Memory**  
Up to 96GB (2x 48GB DDR5 CSODIMM)

**Storage**  
512GB SSD M.2 2280 PCIe® 5.0x4 Performance NVMe® Opal 2.0

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

**Max Storage Support<sup>[1]</sup>**  
Up to two M.2 2280 Gen 5 Performance SSD; up to 4TB total, 2TB each

**Card Reader**  
SD Express 7.0 Card Reader

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

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

**Microphone**  
2x, Array

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

**Battery**  
90Wh

**Power Adapter**  
140W USB-C® GaN (3-pin)

DESIGN

**Display**  
16" WUXGA (1920x1200) IPS 400nits Anti-glare, 45% NTSC, 60Hz, TÜV Low Blue Light

**Screen-to-Body Ratio**  
87.7%

**Color Calibration**  
AICCP Color Calibration

**Pen**  
Pen Not Supported

**Keyboard**  
Backlit, German

**Dimensions (WxDxH)<sup>[2]</sup>**  
361.5 x 248.6 x 12.8 / 19.55 (front / rear), 26.3 (maximum) mm 14.23 x 9.79 x 0.50 / 0.77 (front / rear), 1.04 (maximum) inches

**Weight<sup>[3]</sup>**  
Around 2.1 kg (4.6 lbs)

**Case Color**  
Black

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

SOFTWARE

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

**Bundled Software**  
Lenovo® AI Now

CONNECTIVITY

**WLAN + Bluetooth**  
Intel® Wi-Fi® 7 BE201, 802.11be 2x2 + BT5.4

**WWAN**  
WWAN Upgradable to 5G

**SIM Card**  
No physical SIM card inbox

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

**NFC**  
No NFC

**Standard Ports**

- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1)
- 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On
- 2x Thunderbolt™ 4, with USB PD 3.1, 140W input / 15W output
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Ethernet (GbE 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 3 \(Intel®\)](#)

SECURITY & PRIVACY

**Security Chip**  
Discrete TPM 2.0 Enabled

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

**Smart Card Reader**  
No Smart Card Reader

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

**Other Security**

- Bottom cover tamper detection
- Camera privacy shutter
- Ultrasonic Human Presence Detection for IR camera
- IR camera for Windows® Hello (facial recognition)

MANAGEABILITY

**System Management**  
Non-vPro®

SERVICE

**Base Warranty**  
3-year, Courier or Carry-in with 1-year Battery

**Included Upgrade**  
1Y Premier Support from 3Y Depot Windchill bundles (CPN), CO2 Offset 0.5 ton (2nd Generation Carbon Offset Projects)

ACCESSORIES

CERTIFICATIONS

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

**Green Certifications**

- ENERGY STAR® 9.0
- EPEAT™ Gold Registered
- RoHS compliant
- TCO Certified, generation 10

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

**Other Certifications**  
TÜV Rheinland® Low Blue Light

MODEL

**TopSeller** : Yes **EAN / UPC / JAN:** 0199275324581  
**Announce Date:** 2026-02-13 **End of Support** : 2032-03-28

- Please refer to the official [Lenovo store website](#) or contact a local Lenovo sales representative or authorized business partner for current inventory and purchase options.
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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

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Recommended Accessories



Lenovo Dual-Mode Wireless ANC Headset 6550 (USB-C, Teams) 4XD1S19778



Lenovo Professional Wireless Rechargeable Combo Keyboard and Mouse-US Euro 4X31R64351

Please click [here](#) to view the full list of accessories.

Recommended Services

|        |                                                                          |
|--------|--------------------------------------------------------------------------|
| BEST   | 4Y Premier Support for AIPC upgrade from 1Y Premier Support (5WS1U94200) |
| BETTER | 3Y Premier Support for AIPC upgrade from 1Y Premier Support (5WS1U94199) |



PSREF  
Product Specifications  
Reference