

PERFORMANCE

Processor

Intel® Core™ i9-12950HX, 16C (8P + 8E) / 24T, P-core 2.3 / 5.0GHz, E-core 1.7 / 3.6GHz, 30MB

Graphics

NVIDIA® RTX A4500 16GB GDDR6 ECC

Chipset

Intel WM690

Memory

2x 16GB SO-DIMM DDR5-4800 non-ECC

Memory Slots

Four DDR5 SO-DIMM slots, dual-channel capable

Max Memory

Up to 128GB DDR5-4800

Storage

1TB SSD M.2 2280 PCIe® Gen 4x4 Performance NVMe® Opal2

Storage Support

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 8TB, 4TB each
- RAID 0/1 support

Storage Slot

Two M.2 slots

- Two M.2 2280 PCIe Gen 4x4 slots, support M.2 2280 SSD

Card Reader

SD 7.0 Card Reader

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, Dolby® Atmos®

Camera

IR & FHD 1080p with Privacy Shutter

Microphone

2x, Array

Battery

Integrated 94Wh

Power Adapter

230W Slim Tip (3-pin)

DESIGN

Display

16.0" WQXGA (2560x1600) IPS 400nits Anti-glare, 16:10, 100% sRGB, Low Blue Light, X-Rite® Pantone® Factory Color Calibration, DC Dimming

Color Calibration

Factory Color Calibration

Keyboard

Backlit, German

Case Color

Storm Grey

Case Material

Aluminium (Top), PPS + 50% GF (Bottom)

Pen

No Support

Dimensions (WxDxH)

364 x 266 x 30.23 mm (14.3 x 10.5 x 1.2 inches)

Weight

Starting at 2.95 kg (6.5 lbs)

SOFTWARE

Operating System

Windows® 11 DG Windows 10 Pro 64, German

CONNECTIVITY

Ethernet

No onboard Ethernet

WLAN + Bluetooth®

Intel AX211 Wi-Fi® 6E, 2x2 + BT5.2

WWAN

WWAN Upgradable to 4G

Standard Ports

- Models with NVIDIA graphics: 1x HDMI®, up to 8K/60Hz
- 2x USB 3.2 Gen 1 (one Always On)
- 1x USB-C® 3.2 Gen 2 (support data transfer, Power Delivery 3.0, and DisplayPort™ 1.4)
- 2x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort 1.4)
- 1x SD Express 7.0 card reader

Optional Ports (configured)

- 1x Smart card reader
- 1x Nano-SIM card slot (WWAN support models)

Docking

Various docking solutions supported via Thunderbolt or USB-C.

For more compatible docking solutions, please visit [Docking for ThinkPad® P16 Gen 1](#)

SECURITY & PRIVACY

Smart Card Reader

Smart Card Reader

Security Chip

Discrete TPM 2.0

Fingerprint Reader

Integrated in Power Button

Physical Locks

Kensington® Nano Security Slot, 2.5 x 6 mm

Other Security

Camera privacy shutter

MANAGEABILITY

System Management

Intel® vPro Enterprise

SERVICE

Base Warranty

3-year, Depot

Included Upgrade

3Y Premier TP WS WHB (CPN) (5WS1B09494), CO2 Offset 2 ton (5WS1C41957)

CERTIFICATIONS

Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- TCO Certified 9.0
- RoHS compliant

Other Certifications

TÜV Rheinland® Low Blue Light

Mil-Spec Test

MIL-STD-810H military test passed

ISV Certifications

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

MODEL

TopSeller : Yes

Announce Date : 2022-05-31

EAN / UPC / JAN : 0196800679802

End of Support : N/A

· Lenovo reserves the right to change specifications or other product information without notice.

· Product image on this page is a sample, it may not match the real color of this model

· Battery life is an estimated maximum. Actual battery life may vary based on many factors, including screen brightness, active applications, features, power management settings, battery age and conditioning, and other customer preferences

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

ThinkPad Hybrid USB-C with USB-A Dock (American Standard Plug Type B)

40AF0135US

The ThinkPad Hybrid USB-C with USB-A Dock expands the capabilities of most any laptop, new or old, making it perfect for enterprise customers with mixed-PC or shared-desk environments. Featuring enterprise-class manag...

Recommended Services

BEST	5Y Premier Support upgrade from 3Y Premier Support (5WS0W86655)
BETTER	4Y Premier Support upgrade from 3Y Premier Support (5WS0W86674)

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

PSREF

Product Specifications
Reference