

## 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" WQUXGA (3840x2400) IPS 600nits Anti-glare, 16:10, 100% Adobe® RGB, Low Blue Light, Dolby Vision™, HDR 400, 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

### 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

|                        |                 |                       |              |
|------------------------|-----------------|-----------------------|--------------|
| <b>TopSeller</b>       | : Yes           | <b>Announce Date</b>  | : 2022-05-31 |
| <b>EAN / UPC / JAN</b> | : 0196800683922 | <b>End of Support</b> | : N/A        |

## 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 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