

PERFORMANCE

Processor

Intel® Core™ i9-12900H, 14C (6P + 8E) / 20T, P-core 2.5 / 5GHz, E-core 1.8 / 3.8GHz, 24MB

Graphics

NVIDIA® RTX A5500 16GB GDDR6 ECC

Chipset

Intel WM690

Memory

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

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Max Memory

Up to 64GB DDR5-4800

Storage

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

Storage Support

Models with NVIDIA GeForce®/RTX A3000/A4500/A5500: one drive, up to 4TB 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, optimized with Dolby® Atmos®

Camera

IR & 1080p with Privacy Shutter

Microphone

2x, Array

Battery

Integrated 90Wh

Power Adapter

230W Slim Tip (3-pin)

DESIGN

Display

16.0" WQUXGA (3840x2400) IPS 600nits Anti-reflective, Anti-smudge, Multi-touch, 16:10, 100% Adobe® RGB, Low Blue Light, Dolby Vision™, HDR 400, DC Dimming

Touchscreen

OGM, 10-point Multi-touch

Color Calibrator

Factory Color Calibration

Keyboard

Backlit, English

Case Color

37-degree twill CF Weave

Case Material

CFRP / GFRP (top), Aluminium (bottom)

Pen

Lenovo® Precision Pen 2

Dimensions (WxDxH)

359.5 x 253.8 x 18.2 mm (14.15 x 9.99 x 0.72 inches)

Weight

1.86 kg (4.1 lbs)

SOFTWARE

Operating System

Windows® 11 DG Windows 10 Pro 64, English

CONNECTIVITY

WLAN + Bluetooth®

Intel AX211 Wi-Fi® 6E, 2x2 + BT5.2

Standard Ports

- Models with NVIDIA graphics: 1x HDMI®, up to 8K/60Hz
- 2x Thunderbolt™ 4 / USB4® 40Gbps
- 2x USB 3.2 Gen 1 (one Always On)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector
- 1x SD Express 7.0 card reader

Optional Ports (configured)

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® P1 Gen 5](#)

SECURITY & PRIVACY

Security Chip

Discrete TPM 2.0

Fingerprint Reader

Touch Style, Match-on-Chip

Physical Locks

Kensington® Nano Security Slot, 2.5 x 6 mm

Other Security

- Camera privacy shutter
- IR camera for Windows Hello

MANAGEABILITY

System Management

Intel® vPro Enterprise

SERVICE

Base Warranty

3-year, Depot

Included Upgrade

3Y Sealed Battery Add On (5WS0V07085), 3Y Premier Support Upgrade from 3Y Courier/Carry-in (5WS0V07092)

CERTIFICATIONS

Green Certifications

- EPEAT™ Gold
- ENERGY STAR® 8.0
- 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	: 2022-04-26
EAN / UPC / JAN	: 196800767363	End of Support	: 2028-11-26



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	4Y Lenovo Protect (Premier Support + ADP + KYD + 3Y SBTY + International Upg) (5PS1D67024)
BETTER	3Y Lenovo Protect (ADP + KYD + SBTY + International Upg) (5PS1D67023)
GOOD	3Y Lenovo Support (KYD + SBTY + International Upg) (5PS1D67026)

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



PSREF
Product Specifications
Reference