

PERFORMANCE

Processor

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

Graphics

NVIDIA® GeForce RTX™ 3080 Ti 16GB GDDR6

Chipset

Intel® SoC Platform

Memory

1x 32GB SO-DIMM DDR5-4800

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Max Memory^[1]

Up to 64GB DDR5-4800

Storage

1TB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal 2.0

Storage Support^[2]

Models with RTX 3060/3070 Ti/3080 Ti graphics: one drive, up to 4TB M.2 2280 SSD

Storage Slot

One M.2 2280 PCIe® 4.0 x4 slot (models with RTX 3060/3070 Ti/3080 Ti graphics)

RAID Preset

None

Card Reader

SD Express 7.0 Card Reader

Optical

None

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers, 2W x2, Dolby Atmos®

Camera

FHD 1080p + IR Hybrid with Privacy Shutter

Microphone

2x, Array

Battery

Integrated 90Wh

Power Adapter

230W Slim Tip (3-pin)

DESIGN

Display^{[3][4]}

16" WQUXGA (3840x2400) IPS 600nits Anti-glare, 100% Adobe® RGB, 60Hz, DisplayHDR™ 400, Dolby Vision®

Touchscreen

None

Color Calibration

Factory Color Calibration

Keyboard

Backlit, French

Case Color

Deep Black, Weave

Case Material

Carbon Fiber (Top), Aluminium (Bottom)

Pen

No Support

Dimensions (WxDxH)^[5]

359.5 x 253.8 x 17.9 mm (14.15 x 9.99 x 0.7 inches)

Weight^[6]

Starting at 1.88 kg (4.14 lbs)

SOFTWARE

Operating System

Windows® 11 DG Windows® 10 Pro 64, French

Bundled Software

Intel® Connectivity Performance Suite

CONNECTIVITY

Ethernet^[7]

No Onboard Ethernet

WLAN + Bluetooth^{[8][9]}

Intel® Wi-Fi® 6E AX211, 802.11ax 2x2 + BT5.1

WWAN

None

SIM Card

None

NFC

NFC

Standard Ports

- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 2x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer, Power Delivery 3.0 and DisplayPort™ 1.4)
- 1x HDMI® 2.1, up to 8K/60Hz
- 1x Headphone / microphone combo jack (3.5mm)
- 1x SD Express 7.0 card reader
- 1x Power connector

Optional Ports (configured)

None

Docking

Various docking solutions supported via Thunderbolt™ / USB-C®.

For more compatible docking solutions, please visit [Docking for ThinkPad® X1 Extreme Gen 5](#)

SECURITY & PRIVACY

Smart Card Reader

None

Security Chip

Discrete TPM 2.0 Enabled

Fingerprint Reader

Touch Style, Match-on-Chip, Integrated in Power Button

Physical Locks

Kensington® Nano Security Slot™, 2.5 x 6 mm

Other Security

- IR camera for Windows® Hello (facial recognition)
- Camera privacy shutter
- Glance by Mirametrix®
- Tile ready

MANAGEABILITY

System Management^[10]

Intel® vPro® Enterprise

SERVICE

Base Warranty

3-year, Courier or Carry-in

Included Upgrade

3Y Premier Support WHB (CPN)

ACCESSORIES

Bundled Accessories^[11]

None

CERTIFICATIONS

Green Certifications^[12]

- ENERGY STAR® 8.0
- EPEAT™ Gold Registered
- ErP Lot 3
- RoHS compliant
- TCO Certified 9.0

Other Certifications

TÜV Rheinland® Low Blue Light (Hardware Solution)

Mil-Spec Test

MIL-STD-810H military test passed

MODEL

TopSeller	: Yes	Announce Date	: 2022-05-31
EAN / UPC / JAN	: 0196801648685	End of Support	: N/A

Note:

[1] The max memory is based on the test results with current Lenovo memory offerings.

[2] The storage capacity supported is based on the test.....

· Lenovo reserves the right to change specifications without notice.

To see more note information, please link to

<https://psref.lenovo.com/Detail/2017?M=21DE003XFR>

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 USB-C Dock Gen 2

40AS0090US

- Lenovo understands that modern business depends on a wide variety of PC's and even brands to meet their business needs. To make this easier Lenovo USB-C dock is compatible with Lenovo notebooks as well as note...

Recommended Services

BEST	3Y Premier Support Plus upgrade from 3Y Premier Support (5WS1L39253)
BETTER	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