

Legion 7 16IAX7 82TD0042IX

PSREF

Product Specifications
Reference

PERFORMANCE

Processor

Intel® Core™ i9-12900HX, 16C (8P + 8E) / 24T, P-core 2.3 / 5.0GHz, E-core 1.7 / 3.6GHz, 30MB

Graphics

NVIDIA® GeForce RTX™ 3080 Ti 16GB GDDR6, Boost Clock 1590MHz, TGP 175W

Chipset

Intel HM670

Memory

2x 16GB SO-DIMM DDR5-4800

Memory Slots

Two DDR5 SO-DIMM slots, dual-channel capable

Max Memory

Up to 32GB DDR5-4800 offering

Storage

1TB SSD M.2 2280 PCIe® 4.0x4 NVMe®

Storage Support

Up to two drives, 2x M.2 SSD

- M.2 2280 SSD up to 2TB

Storage Slot

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

Card Reader

None

Optical

None

Audio Chip

High Definition (HD) Audio, Realtek® ALC3306 codec

Speakers

Stereo speakers (super linear speaker), 2W x2, audio by HARMAN certification, optimized with Nahimic Audio, Smart Amplifier (AMP)

Camera

FHD 1080p with E-camera Shutter

Microphone

2x, Array

Battery

Integrated 99.99Wh

Max Battery Life

MobileMark® 2018: 7.1 hr

Local video (1080p) playback@150nits: 9.8 hr

Power Adapter

300W Slim Tip (3-pin)

DESIGN

Display

16" WQXGA (2560x1600) IPS 500nits Anti-glare, 165Hz, 100% sRGB, Dolby® Vision™, HDR 400, G-SYNC®, DC dimmer, Low Blue Light, High Gaming Performance

Touchscreen

None

Color Calibration

Factory Color Calibration

Keyboard

RGB Backlit, Italian

Case Color

Storm Grey (Top), Black (Bottom)

Surface Treatment

Iron Sandblasting (Anodized)

Case Material

Aluminium (Top), Aluminium (Bottom)

Dimensions (WxDxH)

358.1 x 263.5 x 19.4 mm (14.1 x 10.37 x 0.76 inches)

Weight

Around 2.53 kg (5.58 lbs)

SOFTWARE

Operating System

Windows® 11 Home 64, Italian / English

Bundled Software

Office Trial

CONNECTIVITY

Ethernet

2.5 GbE

WLAN + Bluetooth®

Intel Killer Wi-Fi® 6E AX1675i 11ax, 2x2 + BT5.1

Standard Ports

- 2x Thunderbolt™ 4 / USB4® 40Gbps (support data transfer and DisplayPort™ 1.4)
- 1x USB 3.2 Gen 1
- 1x USB 3.2 Gen 1 (Always On)
- 1x USB-C® 3.2 Gen 1 (support data transfer only)
- 1x USB-C 3.2 Gen 2 (support data transfer, Power Delivery 135W and DisplayPort 1.4)
- 1x HDMI®, up to 8K/60Hz
- 1x Ethernet (RJ-45)
- 1x Headphone / microphone combo jack (3.5mm)
- 1x Power connector

SECURITY & PRIVACY

Security Chip

Firmware TPM 2.0

Fingerprint Reader

Touch Style

Other Security

E-Camera shutter

SERVICE

Base Warranty

2-year, Depot

Included Upgrade

2Y Premium Care with Onsite upgrade from 2Y Courier/Carry-in (5WSOT73704)

CERTIFICATIONS

Green Certifications

- ErP Lot 3
- RoHS compliant

Other Certifications

- TÜV Rheinland® High Gaming Performance
- TÜV Rheinland Low Blue Light (Hardware Solution)

MODEL

TopSeller : Yes

Announce Date : 2022-06-24

EAN / UPC / JAN : 196800580665

End of Support : 2028-06-30



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- 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

Premium Care - Advanced Support from Real People. Real Fast.

REAL PERSON

Choose how you want to reach us - through the phone, chat or email - our expert technicians will take care of you.

HASSLE FREE

'Getting started' and 'how-to' assistance for hardware and software. Easy solutions that are simple to reach - that's how Premium Care delivers you the ideal support experience.

REAL FAST

Highly trained technicians will provide you real-time solutions, whatever the issue, on your first contact. If needed, our team will schedule an onsite visit for the next business day.

PC HEALTH CHECK

Free annual PC Health Check that allows our experts to spot issues before you do so they can resolve them quickly and help you avoid PC problems.

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 Powered USB-C Travel Hub

4X90S92381

Travel-Ready Productivity Powerhouse; One-stop travel docking is finally here. Connect and charge new and legacy devices wherever you happen to be. Sleek and compact, the Lenovo Powered USB-C Travel Hub fits unlimited...

Recommended Services

BEST	4Y Premium Care upgrade from 2Y Premium Care (5WS1C83325)
BETTER	3Y Premium Care upgrade from 2Y Premium Care (5WS1C83323)

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

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