ThinkCentre M90a Gen 3 11VG001TLS



PERFORMANCE

Processor^[1]

Intel® Core™ i7-12700, 12C (8P + 4E) / 20T. Max Turbo up to 4.9GHz, P-core 2.1 / 4.8GHz, E-core 1.6 / 3.6GHz, 25MB

Graphics

Integrated Intel® UHD Graphics 770

Chipset

Intel® Q670 Chipset

Memory

2x 8GB SO-DIMM DDR4-3200

Memory Slots

Two DDR4 SO-DIMM slots, dual-channel capable

Max Memory^[2]

Up to 64GB DDR4-3200

512GB SSD M.2 2280 PCIe® 4.0x4 Performance NVMe® Opal

Storage Support^{[3][4]}

Up to three drives, 2x 2.5" HDD + 1x M.2 SSD

- 2.5" HDD up to 2TB each
- M.2 SSD up to 1TB

Technical support up to 2 HDDs + 1 SSD, but Lenovo® only offers the models with up to 2 HDDs or 1 SSD + 1 HDD

Card Reader

3-in-1 Card Reader

Audio Chip

High Definition (HD) Audio. Realtek® ALC256-NL codec

Speakers

3Wx2

Camera 5.0MP

Microphone

2x. Array

Power Supply

180W 90%

DESIGN

Display^[5]

23.8" FHD (1920x1080) IPS 250nits Anti-glare, 72% NTSC

USB Calliope Keyboard, Black, Spanish (LA)

USB Calliope Mouse, Black

Expansion Slots

Two M.2 slots (one for WLAN, one for SSD)

Case Color

Black

Stand

Full Function Monitor Stand

Mounting

VESA mount

Form Factor

AIO (23.8 inches)

Dimensions (WxDxH)[6]

Lowest in vertical mode: 539.6 x 217.31 x 394.65 mm (21.24 x 8.56 x 15.54 inches)

Highest in vertical mode: 539.6 x 217.31 x 503.66 mm (21.24 x 8.56 x 19.83 inches)

Weight^[7]

Around 8.235 kg (18.15 lbs)

CONNECTIVITY

Ethernet

Integrated 100/1000M

WLAN + Bluetooth®[8]

Intel® Wi-Fi® 6 AX201, 11ax 2x2 + BT5.1

- 1x USB-C® 3.2 Gen 2 (support data transfer and 15W) charging)
- 3x USB 3.2 Gen 1
- 1x HDMI® (HDMI® in 1.4 / HDMI® out 2.1 TMDS combo port)
- 1x DisplayPort[™] 1.4
- 1x Ethernet (RJ-45)

Right Ports

- 3x USB 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)

Optional Right Ports (configured)

1x card reader

SECURITY & PRIVACY

Security Chip

Discrete TPM 2.0, TCG certified

Fingerprint Reader

No fingerprint reader

Physical Locks

Kensington® Security Slot™, 3 x 7 mm

Other Security

ThinkShutter camera cover

MANAGEABILITY

System Management

Non-vPro®

SERVICE

Base Warranty

1-year, Onsite

Included Upgrade

3Y Onsite upgrade from 1Y Onsite

CERTIFICATIONS

Green Certifications[9]

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

Other Certifications

- TÜV Rheinland® Flicker Free
- TÜV Rheinland® Low Blue Light
- UL Anti-dust

Mil-Spec Test

MIL-STD-810H military test passed (Low Pressure [Altitude]. High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation, Contamination by Fluids, Salt Fog)

SOFTWARE

Operating System

Windows® 11 Pro. Spanish

MODEL

TopSeller : No **Announce Date** : 2023-07-11 EAN / UPC / JAN : 197532077072 **End of Support** : 2028-10-29

Note:

[1] Intel Max Turbo frequency will vary depending on application workload and the hardware and software configurations, see

http://www.intel.com/technology/turboboost/ for more information.

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

[3] The max capacity of each disk type is based on the test results with current Lenovo storage offerings.

[4] 2nd 2.5" HDD occupies ODD bay, and needs ODD to HDD bracket kit (optional, come with 2nd 2.5" HDD).

[5] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA,

- [6] The system dimensions may vary depending on configurations.
- [7] The system weight is approximate and based on results in.....
- · Lenovo reserves the right to change specifications without notice.

To see more note information, please link to

https://psref.lenovo.com/Detail/1806?M=11VG001TLS

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



Kensington MicroSaver 2.0 Cable Lock from Lenovo

4XE0N80914

Protect your device. Lenovo offers the latest standard in device security – the MicroSaver 2.0 Cable Lock From Lenovo. Engineered to be the smallest, strongest lock for laptops and other devices, the MicroSaver 2.0 re...

Recommended Services

BEST	5Y Premier Support Plus upgrade from 3Y Onsite (5WS1L39047)
BETTER	3Y Premier Support Plus upgrade from 3Y Onsite (5WS1L39119)
GOOD	3Y Premier Support upgrade from 3Y Onsite (5WSOV08537)

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

