ThinkCentre M90a Gen 3 11VF009TSG



The product images are for illustration purposes only. Actual product appearance, ports, keyboard layout, and accessories may vary by model.

- 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
- 1x 16GB SO-DIMM DDR4-3200
- 512GB SSD M.2 2280 PCIe 4.0x4 Performance NVMe Opal
- Integrated Intel UHD Graphics 770
- Windows 11 DG Windows 10 Pro 64, English
- Case color - Black
- 3Y Onsite upgrade from 1Y Onsite

Premier Support - A direct 24x7x365 line to our most elite technicians.

- Advanced technical support, 24x7x365, in more than 100 markets
- Comprehensive hardware & OEM software support
- Single point of contact for simplified end-to-end case management
- Technical Account Managers for proactive relationship and escalation management
- Priority on service delivery and repair parts
- 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

Recommended Accessories

United Kingdom



Lenovo Wired VoIP Headset (Teams)

4XD1M45626



ThinkPad Bluetooth Presenter Mouse (Aura Edition)

4Y51T62792



Lenovo 310 FHD Webcam Black

GXC1S15024



Kensington MicroSaver DS 2.0 Cable Lock from Lenovo

4XE1L68273



Lenovo USB-C Cable 1m

4X90U90619



Lenovo Adjustable Height Arm

4XF0H70603

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PERFORMANCE

Processor
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[1]

Graphics
Integrated Intel® UHD Graphics 770

Chipset
Intel® Q670 Chipset

Memory
1x 16GB SO-DIMM DDR4-3200

Memory Slots
Two DDR4 SO-DIMM slots, dual-channel capable

Max Memory[2]
Up to 64GB DDR4-3200

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

Card Reader
3-in-1 Card Reader

Optical
None

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

Speakers
3Wx2

Camera
5.0MP + IR Hybrid

Microphone
2x, Array

Power Supply
180W 90%

DESIGN

Display[3]
23.8" FHD (1920x1080) IPS 250nits Anti-glare, 72% NTSC, Touch

Touchscreen
10-point Multi-touch

Keyboard
USB Calliope Keyboard, Black, English

Mouse
USB Calliope Mouse, Black

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

Case Color
Black

Stand
UltraFlex V Stand

Mounting
VESA mount

Pen
Pen Not Supported

Form Factor
AIO (23.8 inches)

Weight[4]
Around 8.742 kg (19.27 lbs)

CONNECTIVITY

WLAN + Bluetooth
Intel® Wi-Fi® 6 AX201, 802.11ax 2x2 + BT5.2

WWAN
Non-WWAN

Ethernet
Integrated 100/1000M

Rear Ports
- 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)

Optional Rear Ports (configured)
None

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

Chassis Intrusion Switch
None

Additional Security
None

Other Security
ThinkShutter camera cover (camera models)

MANAGEABILITY

System Management
Non-vPro®

SERVICE

Base Warranty
1-year, Onsite

Included Upgrade
3Y Onsite upgrade from 1Y Onsite

CERTIFICATIONS

Green Certifications
- 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 DG Windows® 10 Pro 64, English

Bundled Software
None

ACCESSORIES

Bundled Accessories
None

MODEL

TopSeller	: Yes	**EAN / UPC / JAN**	: 196803311112
Announce Date	: 2022-10-18	**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] IPS (in-plane switching) technology may refer to IPS, PLS, ADS, AHVA, AAS.
[4] The system weight is approximate and based on results in Lenovo lab, which varies depending on the source of component, variance of the distribution of each component, and manufacturing process. It may not be the exact weight for each specific model.

- Please refer to the official Lenovo store website or contact a local Lenovo sales representative or authorized business partner for current inventory and purchase options.
- Lenovo reserves the right to change specifications without notice.