

# ThinkCentre M90t Gen 3 11TVO01NGE

## PSREF

Product Specifications  
Reference

### PERFORMANCE

#### Processor

Intel® Core™ i9-12900, 16C (8P + 8E) / 24T, P-core 2.4 / 5.0GHz, E-core 1.8 / 3.8GHz, 30MB

#### Graphics

NVIDIA® GeForce RTX™ 3070 Ti 8GB GDDR6X

#### Chipset

Intel Q670 Chipset

#### Memory

2x 16GB UDIMM DDR5-4400

#### Memory Slots

Four DDR5 UDIMM slots, dual-channel capable

#### Max Memory

Up to 128GB DDR5

#### Storage

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

#### Storage Support

Up to five drives, 2x 2.5"/3.5" HDD + 1x 2.5" HDD + 2x M.2 SSD

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

#### Optical

DVD±RW

#### Audio Chip

High Definition (HD) Audio, Realtek® ALC897Q-CG codec

#### Speakers

2Wx1

#### Power Supply

750W 92%

### DESIGN

#### Keyboard

USB Traditional Keyboard, Black, German

#### Mouse

USB Calliope Mouse, Black

#### Expansion Slots

- One PCIe 4.0 x16, full-height, length ≤ 268.5mm, height ≤ 114.55mm
- One PCIe 4.0 x16 (x4 signal), full-height, length ≤ 205mm, height ≤ 114.55mm
- Two PCIe 3.0 x1, full-height, length ≤ 205mm, height ≤ 114.55mm
- Three M.2 slots (one for WLAN, two for SSD)

#### Case Color

Black

#### Stand

No stand

#### Form Factor

Tower (17L)

#### Dimensions (WxDxH)

170 x 298 x 376 mm (6.7 x 11.7 x 14.8 inches)

#### Weight

Around 6.5 kg (14.3 lbs)

### CONNECTIVITY

#### Ethernet

Integrated 100/1000M

#### WLAN + Bluetooth®

Intel AX211 Wi-Fi® 6E, 11ax, 2x2 + BT5.1, vPro

#### Front Ports

- 1x USB-C® 3.2 Gen 2 (support data transfer and 15W charging)
- 2x USB 3.2 Gen 1
- 2x USB 3.2 Gen 2
- 1x headphone / microphone combo jack (3.5mm)
- 1x microphone (3.5mm)

#### Rear Ports

- 4x USB 3.2 Gen 1
- 1x HDMI® 2.1 TMDS
- 2x DisplayPort™ 1.4
- 1x Ethernet (RJ-45)
- 1x line-out (3.5mm)

### SECURITY & PRIVACY

#### Security Chip

Discrete TPM 2.0, TCG certified

#### Fingerprint Reader

No fingerprint reader

#### Physical Locks

- Kensington® Security Slot™, 3 x 7 mm
- Padlock Loop

#### Chassis Intrusion Switch

Chassis Intrusion Switch

### MANAGEABILITY

#### System Management

vPro Enterprise

### SERVICE

#### Base Warranty

3-year, Onsite

#### Included Upgrade

1Y Premier Support from 3Y Onsite WHB (CPN) (5WS1F31123)

### CERTIFICATIONS

#### Green Certifications

- ErP Lot 3
- TCO Certified 9.0
- RoHS compliant

#### 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 64, German

### MODEL

TopSeller : Yes

Announce Date : 2022-05-10

EAN / UPC / JAN : 0196800063953

End of Support : 2028-10-29



intel

## 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 Lenovo Protect (Premier Support + ADP + KYD + International Upg) (5PS1D67032) |
| BETTER | 5Y Lenovo Support (Premier Support + KYD + International Upg) (5PS1D67028)       |
| GOOD   | 4Y Lenovo Support (Premier Support + KYD + International Upg) (5PS1D67027)       |

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

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