

# ThinkCentre M90t Gen 3

Engineered for exacting performance, this most powerful desktop makes multitasking a breeze with up to 12th Gen Intel core i9 processors and a host of expansion solutions. The tower supports high-performance graphics up to NVIDIA GeForce RTX 3070 to deliver near-perfect 3D renderings, immersive gaming, and VR experiences. With an ultra-responsive DDR5 memory up to 128 GB, get to your data-heavy files and advanced applications in a flash.



## Rugged compact performance primed for business

The ThinkCentre M9 Series offers more expansion and performance capabilities than any other desktop in our portfolio; perfect for users who need higher computing performance than average.

Connect up to 4 independent displays and industry-specific equipment with onboard ports, which include 5x USB ports, 1x HDMI, and 2x DisplayPort ports. Plus, it has an array of optional ports including 1x Thunderbolt™ 4 and 4x USB-C ports for transferring data at lightning speed.

With plentiful storage capacity of up to 5 drives, including up to three 2.5" HDD and two M.2 SSD bays, and many expansion slots, including four tool-less PCIe slots, its expandability is limitless.

Configure with responsive SSD storage, NVIDIA Geforce RTX 3070 Ti graphics and Intel Core™ i9 processor to support seamless multitasking of graphic design workloads.

## Lenovo Services

Lenovo delivers tailored sustainability services, devices, and infrastructure solutions from our broad portfolio, working closely with you to support your target outcomes across the IT lifecycle..



### Warranty Extensions

- Purchase additional warranty periods from 1 to 5 years
- Buy at any point with or after your device purchase
- Optional On-site Service

## Accessories

### ThinkVision T32h-20

- 31.5" QHD (2560x1440) near-borderless monitor with 99% sRGB colour gamut
- 1x HDMI, 1x DisplayPort, 1x USB-C (data, video & data), 4x USB3.1, audio out
- Lift, Tilt, Pivot, Swivel stand for viewing comfort. Integrated smartphone holder in base.



### ThinkVision T34w-20

- 34" WQHD display with 1500R curvature, ultra-wide 21:9 aspect ratio, 3000:1 contrast ratio, 99% sRGB colour gamut
- 1x HDMI, 1x DisplayPort. Integrated USB hub (1x USB-C, 4x USB3.1). Audio out.
- Lift, Tilt, Pivot, Swivel stand for viewing comfort. Integrated smartphone holder in base.



# ThinkCentre M90t Gen 3

## Performance

### Processor

Intel Pentium or 12th Generation Core i3/i5/i7/i9

### Operating System

Windows 11 Pro 64  
Windows 11 Home 64  
Windows 11 Home 64 Single Language  
Windows 11 DG Windows 10 Pro 64  
Windows 10 IoT Enterprise LTSC 2021  
Ubuntu Linux

### Graphics

Intel UHD graphics 710/730/770 (Integrated)  
Intel Iris Xe MAX 100 2GB  
AMD Radeon RX 6400 4GB  
AMD Radeon RX 6500XT 4GB  
NVIDIA GeForce GTX 1660 SUPER 6GB  
NVIDIA GeForce RTX 3050 8GB  
NVIDIA GeForce RTX 3060 12GB  
NVIDIA GeForce RTX 3070 Ti 8GB

### Chipset

Intel Q670 Chipset

### Memory<sup>1</sup>

Up to 128GB DDR5, four DIMM slots

<sup>1</sup>The max memory is based on the test results with current Lenovo memory offerings.

### Storage<sup>2</sup>

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  
RAID 0/1 support (RAID preset only available via special bid models)

<sup>2</sup>The max capacity of each disk type is based on the test results with current Lenovo storage offerings.

### Optical\*

DVD-ROM or DVD±RW\*

### Audio

High Definition (HD) Audio  
Single speaker, 2W x1

### Power Supply\*

750W 92%, 500W 92%, 300W 90% PSU

## Design

### Form factor

Tower (17L)

### Dimensions<sup>3</sup>

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

<sup>3</sup>The system dimensions may vary depending on configurations.

### Weight<sup>4</sup>

Around 6.5 kg (14.3 lbs)

<sup>4</sup>The system weight is approximate and may vary depending on configurations

### Color

Black

### Bays

1x 2.5" disk bay (bay comes with disk)  
1x 3.5" disk bay  
1x 3.5" disk bay (optional, or bay comes with disk)  
1x slim ODD bay

### Expansion Slots

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

## Connectivity

### Ethernet

Gigabit onboard Ethernet

### WLAN + Bluetooth\*

802.11ac (Wi-Fi 5) or 802.11ax (Wi-Fi 6 / Wi-Fi 6E), up to Bluetooth 5.3  
up to Intel Wi-Fi 6E AX211, 802.11ax, Bluetooth 5.3

### 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)  
1x card reader\*

### 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)  
1x USB-C 3.2 Gen 1 with DP function (Flex IO)\*  
1x HDMI 2.1 TMDS (Flex IO)\*  
1x VGA (Flex IO)\*  
1x DP 1.2 (Flex IO)\*  
1x USB-C 3.2 Gen 2x2 (via PCIe x4 card)\*  
2x USB 2.0 (via 2-port adapter)\*  
2x USB 3.2 Gen 1 (via PCIe x1 card)\*  
2x USB-C 3.2 Gen 2 (via PCIe x4 card)\*  
1x serial\*  
1x 2nd serial\*  
4x serial (via PCIe x1 card)\*  
1x parallel\*  
2x PS/2\*

## Security & Privacy

### Security

Discrete TPM 2.0  
Kensington Security Slot  
Padlock Loop  
E-lock\*  
Smart Cable Clip\*  
Chassis Intrusion Switch\*  
Touch style fingerprint reader on mouse\*

## Manageability

### System Management\*<sup>5</sup>

Intel vPro Enterprise\*

<sup>5</sup>Intel vPro offers a superset of DASH's defined capabilities.

## Lenovo services

### Base Warranty

Up to 3-year limited onsite service

## Certifications

### Green Certifications<sup>6</sup>

EPEAT Gold Registered\*  
EPEAT Silver Registered\*  
ENERGY STAR 8.0\*  
ErP Lot 3  
TCO Certified 9.0  
RoHS compliant

<sup>6</sup>The items listed under the "Green Certifications" section may not only refer to certification but also registration or self-declaration.

### Other Certifications

TÜV Rheinland Low Noise\*  
TÜV Rheinland Ultra Low Noise\*  
MIL-STD-810H