

ThinkCentre M90s Gen 3

Lenovo's premium small form factor desktop with big-time memory, the M90s Gen 3 delivers formidable productivity for data-crunching tasks and graphic-heavy projects. Save time, effort, and desk space with this ultra-responsive powerhouse, packed with up to Intel vPro® Enterprise with 12th Generation Intel® Core™ i9 processors, as well as efficiency upgrades like Modern Standby.

Maximum expandability and features like the Smart Cable let users bridge between legacy peripherals and future workspace needs. Security and manageability are covered too—inside and out—with ThinkShield end-to-end solutions and the built-for-business Intel vPro® platform. New Intel® Wi-Fi 6E¹ capability means lightning-fast data-sharing speed and lower latency for those daily videoconferences.

¹16GHz Wi-Fi 6E operation is dependent on the support of the operating system, routers/APs/Gateways that support Wi-Fi 6E, and the regional regulatory certifications and spectrum allocation.



Smarter
technology
for all

Lenovo

ThinkCentre M90s Gen 3



Previous Gen

Current Gen

Gen-to-Gen

	Previous Gen	Current Gen	Gen-to-Gen
Platform, Processor & Chipset	Intel vPro® / Up to 10 th Gen Intel® Core™ i9-10900 (65W) / Intel® Q470	Intel vPro® / Up to 12 th Gen Intel® Core™ i9-12900K (125W) / Intel® Q670	10%-15% enhanced performance; uncompromised computing capability
Memory	4x DDR4 UDIMM	4x DDR5 UDIMM, up to 4400Mhz	Better memory with faster frequencies
PSU	260W 85%	260W 90%	Improved power efficiency
Front IO	1x USB-C 3.1 Gen 1 (15W charging) 2x USB 3.1 Gen 1 2x USB 3.1 Gen 2	1x USB-C 3.2 Gen 2 (15W charging) 2x USB 3.2 Gen 1 2x USB 3.2 Gen 2	Upgraded USB ports
Rear IO	4x USB3.1 Gen 1 Flex IO(HDMI/Type-C/DP) 1x DP + 1x DP + HDMI 1.4 1x Serial, optional 2nd Serial	4 x USB3.2 Gen 1 Flex IO (DP/HDMI/Type-C/VGA) 1x DP + 1x DP + HDMI 2.1 TMDS Optional 2x Serial	Enhanced connectivity with more advanced and additional IO solutions
Expandability	1x PCIe x16 Gen3 1x PCIe x16 (x4 link) Gen 3 1x PCIe x1 2x M.2 SSD or Optane	1x PCIe x16 Gen 4 1x PCIe x16 (x4 link) Gen 4 2x PCIe x1 2x M.2 SSD Gen 4	Extended PC functionality to connect extra devices with up to twice the speed
Security	Level 1 Self-healing BIOS	Level 2 Self-healing BIOS	Enhanced security and manageability features



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PREMIUM PERFORMANCE

There's no program too complex or file size too large to keep ThinkCentre M90s Gen 3 from running at the speed of the human imagination. This desktop is packed with up to Intel vPro® Enterprise with 12th Generation Intel® Core™ i9 processors for real-world, business-class performance and up to four DDR5 UDIMM (max. 4400MHz) and up to 128GB memory support. Graphics options that include AMD Radeon 6400 and Intel® Iris® X^e enable users to power through renderings, video editing, and VR/AR content creation with ease.



CONFIDENT SECURITY

Lenovo ThinkShield offers end-to-end security with a combination of hardware and software solutions to protect your data—and your business. The dTPM 2.0 chip encrypts your passwords and data, while BIOS-based Smart USB Protection prevents unauthorized access via peripherals. Built on the Intel vPro® platform, the ThinkCentre M90s Gen 3 delivers the best of Intel hardware-based security features to better safeguard data and assets with below-the-OS security features and advanced threat detection. The Kensington™ Lock slots, chassis e-locks, and more options provide physical security to protect against theft.



EXPANDABLE FLEXIBILITY

The ThinkCentre M90s Gen 3 offers ample I/O ports and expansion slots to meet the complex IT needs of today's businesses. With the ability to support up to four independent monitors plus the new smart cable, users can expand their workspace for optimal productivity. Optional solid-state drive (SSD) storage offers fast access for boot up, searches, and opening files, making for a more responsive storage drive, while 3D NAND technology gives your SSD more reliable performance and improved power consumption.



intentional sustainability

The ThinkCentre M90s Gen 3 meets the highest environmental standards, including TCO 9.02 and EPEAT™ Gold2. Lenovo is committed to creating eco-friendly products using recyclable, toxic-free components in every device. Plus, by 2025/26, 90% of PC products' packaging will be made from recycled materials.

trusted quality

Because it meets MIL-STD 810H guidelines with 12 methods and 20 procedures, the ThinkCentre M90s Gen 3 reflects Lenovo's dedication product quality, durability, and reliability. Tested against real-world challenges like volt surges, shock, vibration, and extreme temperatures, this SFF is ready for anything.

relentless innovation

Lenovo is inspired by our customers and what they want from our devices, and it shows in additions like fast-charge USB ports located on the front panel, Smart USB protection, and much more.

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Services

Lenovo offers a comprehensive portfolio of end-to-end services to support and protect your investment—so you can focus on the job at hand, not IT.



PREMIER SUPPORT

Premier Support provides direct 24x7x365 access to elite Lenovo engineers for comprehensive hardware and OEM software support, priority on service delivery, repair of parts, and many more. This ensures that customers' issues and concerns are resolved quickly, saving them costs and enhancing productivity.



CO₂ OFFSET SERVICES

Make offsetting carbon emissions simple and within your control. You can use this service to compensate for environmental impact based on realistic emissions over an average product lifecycle. It is offered as an option at point of purchase, with tangible proof of CO₂ emission that offset.



DEVICE AS A SERVICE (DaaS)

Combine hardware, services, and software into a single, flexible solution to maintain predictable monthly costs. This innovative, fully managed model drives down capital IT expenses while ensuring your employees experience the latest technology to keep them secure and productive.

Accessories

Lenovo Pro Wired Stereo VOIP Headset

This headset offers the versatility of using the USB or 3.5mm connection, allowing users to stay connected with their PC or personal device. It also features a noise-cancelling microphone that eliminates background noise for better conversation. Set up is easy—simply plug in and go.



PN: 4XD0S92991

Kensington® MicroSaver™ 2.0 Twin Cable Lock

Secure two devices with the same cable lock. Engineered to be the smallest, strongest lock for desktop, laptop, monitors, and other devices, the MicroSaver 2.0 represents the next generation of cable security.



PN: 4XE0N80915

Lenovo Essential Wireless Keyboard and Mouse

This combo allows you to connect both keyboard and mouse using only one nano USB wireless receiver. The slim, wireless keyboard has a responsive key feeling, and includes an adjustable tilt leg, numeric keypad, and spill resistant design. The full-size wireless mouse accommodates left- and right-handed users.



PN: 4X30M3xxx



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performance

PROCESSOR

Intel vPro® Enterprise with 12th Generation Intel® Core™ i9 processors

OPERATING SYSTEM

Windows 11 (Home & Pro)
Windows 11 Downgrade (Pro)
Windows 10 (IoT)

GRAPHICS

Intel® UHD Graphics 770 / 730 / 710
Intel® Iris® X^e MAX Graphics DG1E
AMD Radeon™ RX 6400

MEMORY

4x DDR5 UDIMM (up to 4400MHz/128GB)

PSU

380W 92%; 310W 92%; 260W 90%

connectivity

FRONT PORTS

1x USB-C 3.2 Gen 2 (15W charging)
2x USB 3.2 Gen 1
2x USB 3.2 Gen 2
Optional Card Reader (3 in 1)
1x Combo + 1x Mic

REAR PORTS

4x USB 3.2 Gen 1
Flex IO (DP/HDMI/Type-C/VGA)
1x DP + 1x DP + HDMI 2.1 TMDS
2x Optional Serial
1x LAN (1G)
1x Audio out
2 x Optional PS2
2 x Optional USB 2.0
Optional Parallel

EXPANSION SLOT

1x PCIe x16 Gen 4
1x PCIe x16 (x4 link) Gen 4
2x PCIe x1

M.2 SLOT

2x M.2 SSD Gen 4
1x M.2 Wi-Fi

INTERNAL BAY

1x 3.5" HDD
1x 2.5" HDD

EXTERNAL BAY

1x Slim ODD

WI-FI

Intel® Wi-Fi 6E¹ 2x2 AX
Intel® Wi-Fi 6 2x2 AX

security

dTPM 2.0 chip
EC Self-healing (Level 2)
BIOS-based Smart USB Protection
Chassis E-Lock
Kensington™ Lock
Padlock Loop (optional)
Smart Cable Clip (optional)

design

EOU

Yes

DIMENSIONS

339.5 x 92.5 x 297.7 mm / 13.4 x 3.6 x 11.7 in

WEIGHT

5.3kg / 11.7 lbs

manageability

Modern Standby
Supports up to 4 independent monitors
Smart Power On
4-port COM add-on card

green certifications

Energy Star® 8.0
EPEAT™ Gold²
RoHS
ERP LOT 3
TÜV Low Noise
TCO 9.0²

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²Various by configuration.