

P500MVI78512B2X

Asus ExpertCenter P500MV MT, i7-13620H 4.9GHz, 8GB RAM, 512GB SSD, Win 11 Pro

Product Overview

Asus ExpertCenter P500MV Mini Tower 15L, Intel Core 13th Gen i7-13620H up to 4.9GHz 24MB Cache Ten Core (10) Processor with intergrated Intel UHD Graphics 770 (6 performace & 4 efficient cores), 8GB DDR5 SO-DIMM, 512GB M.2 PCI-e Solid State Drive, Wi-Fi 6, Bluetooth, USB Keyboard & Mouse, Windows 11 Pro 64bit, 180W Power Supply, 1x 3.5mm Combo Audio jack (Front), 1x USB 3.2 Gen1 Type-C (Front), 2x USB 3.2 Gen 1 Type-A (Front), 1x RJ45 Gigabit Ethernet, 1x HDMI1.4, 1x DisplayPort 1.4, 1x 7.1 channel Audio (Microphone / Line-Out / Line-In), 1x Kensington lock, 4x USB 2.0 Type-A, P500MV-I78512B2X



Specifications

Overview Summary:

The Asus ExpertCenter P500MV Mini Tower delivers reliable performance for professional and business use in South Africa. Equipped with a 13th Gen Intel Core i7-13620H processor, 8GB DDR5 memory, and a 512GB NVMe SSD, this compact 15L desktop handles multitasking, data processing, and everyday office applications with ease. Its integrated Intel UHD Graphics ensures smooth visual output, while Wi-Fi 6 and Bluetooth 5.4 provide fast and stable connectivity. Shop now to enhance your workspace with a high-performance desktop.

This mini tower comes ready with Windows 11 Pro, a wired keyboard and mouse, and a 180W power supply, making it easy to set up and start working immediately. Ideal for home offices, small businesses, and professional setups, it balances power, compact size, and efficiency. Buy now to experience smooth computing in a space-saving design.

Performance tier:High

Uses:Office work, Business applications, Data processing, Professional computing, Remote work, Home office setup

Overview:

ASUS ExpertCenter P500MV Mini Tower Desktop PC

Designed for modern business environments, the ASUS ExpertCenter P500MV delivers a practical balance of performance, expandability, and reliability in a compact 15L mini tower chassis. Powered by a 13th Gen Intel Core i7 processor, this desktop is well suited for multitasking, office productivity, and demanding day to day workloads. Its efficient thermal design and

compact footprint make it a strong fit for both office desks and space constrained setups.

The inclusion of fast DDR5 memory and PCIe SSD storage ensures responsive system performance, while integrated connectivity options such as Wi-Fi 6 and Gigabit Ethernet provide flexible networking. With multiple USB ports and display outputs, it integrates easily into existing workstations and supports multi display configurations.

Description:

The ASUS ExpertCenter P500MV Mini Tower is a business focused desktop built for efficiency and scalability. It combines a 10 core Intel Core i7-13620H processor with DDR5 memory and high speed NVMe storage to handle multitasking, office applications, and professional workflows with ease. Its compact 15L design saves space without limiting expandability, offering multiple M.2 slots, SATA support, and PCIe expansion. Integrated Wi-Fi 6, Bluetooth 5.4, and a full range of ports ensure seamless connectivity, while Windows 11 Pro provides enterprise grade security and productivity tools. Ideal for offices, small businesses, and professional users who need reliable performance in a streamlined form factor.

Features:

Performance and Processing Power

At the core of the system is the Intel Core i7-13620H processor, engineered with a hybrid architecture that combines performance and efficiency cores. This configuration allows the system to manage intensive tasks while maintaining energy efficiency during lighter workloads.

Key processor details:

- 10 cores with 6 performance cores and 4 efficiency cores
- 16 threads for improved multitasking
- Base frequency of 2.4GHz with boost up to 4.9GHz
- 24MB Intel Smart Cache

The integrated Intel UHD Graphics 770 supports everyday visual tasks, media playback, and business applications without requiring a dedicated GPU.

Memory and Storage Configuration

This desktop is equipped with DDR5 memory, enabling faster data access and improved system responsiveness compared to previous generations.

Important memory and storage highlights:

- 8GB DDR5 SO-DIMM installed
- Supports up to 64GB memory capacity
- Memory speeds up to 5600MHz (operational range 4800 to 5200MHz)
- 512GB M.2 PCIe 4.0 NVMe SSD for fast boot and load times
- Additional expansion via SATA and multiple M.2 slots

This configuration ensures quick application launches and efficient file handling, while leaving room for future upgrades.

Connectivity and Expansion Options

The ASUS ExpertCenter P500MV offers a comprehensive range of connectivity options, making it adaptable to various office setups.

Front ports:

- 1x USB 3.2 Gen 1 Type-C
- 2x USB 3.2 Gen 1 Type-A
- 1x 3.5mm combo audio jack

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Product Specification Sheet

Rear ports and connectivity:

- 1x RJ45 Gigabit Ethernet
- 1x HDMI 1.4
- 1x DisplayPort 1.4
- 4x USB 2.0 Type-A
- 7.1 channel audio ports

Wireless capabilities include Wi-Fi 6 and Bluetooth 5.4, ensuring fast and stable connections for modern workflows.

Expandability and Internal Design

Despite its compact mini tower form factor, the system is designed with scalability in mind.

Expansion capabilities include:

- 1x PCIe 4.0 x16 slot (operating at x8)
- 2x M.2 2280 slots for storage
- 1x M.2 slot for Wi-Fi
- 2x DDR5 SO-DIMM slots
- 1x 3.5 inch drive bay with included assembly kit
- 2x SATA 6.0Gb/s ports

This makes it suitable for businesses planning future upgrades without replacing the entire system.

Design, Build, and Usability

The 15L mini tower chassis offers a space efficient design without sacrificing accessibility. Its clean grey finish fits seamlessly into professional environments.

Physical specifications:

- Dimensions: 15.50 x 29.60 x 34.70 cm
- Weight: 6.0 kg

Included wired USB keyboard and mouse provide a complete out of box setup, minimizing additional costs.

Software and Business Tools

Running on Windows 11 Pro, the system is optimized for professional use, offering enhanced security, remote desktop capabilities, and productivity tools.

Additional utilities include MyASUS software, which provides:

- System diagnostics
- Fan profile customization
- AppDeals and system management tools

Power Efficiency and Reliability

The desktop is powered by a 180W power supply with 80 Plus Bronze efficiency, balancing energy consumption with reliable performance for everyday business operations.

Key Technical Summary

- Model: ASUS ExpertCenter P500MV Mini Tower
- Part Number / SKU: DTAS90PF05I1-M01ZC0B
- Processor: Intel Core i7-13620H (13th Gen)
- Graphics: Intel UHD Graphics 770

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Product Specification Sheet

- Memory: 8GB DDR5 (expandable to 64GB)
- Storage: 512GB PCIe 4.0 NVMe SSD
- Networking: Gigabit Ethernet, Wi-Fi 6, Bluetooth 5.4
- Operating System: Windows 11 Pro
- Form Factor: 15L Mini Tower

This configuration positions the ASUS ExpertCenter P500MV as a dependable and scalable desktop solution for business users who require consistent performance, flexible expansion, and modern connectivity.

Specifications:

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Specifications	
Product Code	P500MVI78512B2X
Model	P500MV / 90PFO511-M01ZCO
Size	15L
Color	Gray
Form Factor	Mini tower
Operating System	Windows 11 Pro - ASUS recommends Windows 11 Pro for business
Office	1-month trial for new Microsoft 365 customers. Credit card required.
Processor	Intel Core i7-13620H Processor 2.4 GHz (24MB Cache, up to 4.9 GHz, 10 cores, 16 Threads)
CPU Cooler	Air Cooler
DIMM Memory	8GB DDR5 SO-DIMM
Memory Speed	Memory speed is 5600MHz, but run at 4800-5200MHz
Memory Max.	64GB
Integrated GPU	Intel UHD Graphics
Storage	512GB M.2 2280 NVMe PCIe 4.0 SSD
Optical Drive	Without optical drive
LAN	Intel WGI219V 10/100/1000 Mbps, non-vPro
Audio	High Definition 7.1 Channel Audio
Wireless	Wi-Fi 6(802.11ax) (Dual band) 1*1 + Bluetooth 5.4 Wireless Card
Power Supply	180W power supply (80+ Bronze, peak 228W)
Rear I/O Port	1x RJ45 Gigabit Ethernet
	1x HDMI1.4
	1x Displayport 1.4
	1x 7.1 channelaudio (microphone,line-out, Line-in)
	1x Kensington lock
	4x USB 2.0 Type-A

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Product Specification Sheet

Front I/O Port	1x 3.5mm combo audio jack
	1x USB 3.2 Gen1 Type-C
	2x USB 3.2 Gen 1 Type-A
Drive Bay	3.5" x1
Serial ATA	2x SATA 6.0Gb/s ports
Expansion Slot(includes used)	1x PCIe 4.0 x 16 (operating at PCIe 4.0 x8)
	1x M.2 connectorforWiFi
	2x M.2 2280 connector for storage
	2x DDR5 SO-DIMM slot
Keyboard & Mouse	Wired keyboard (USB)
	Wired optical. mouse (USB)
Accessory	3.5" HDD assembly kit
Dimension (WxDxH)	15.50 x 29.60 x 34.70 cm (6.10" x 11.65" x 13.66")
Weight	06.00 kg (13.23lbs)
My ASUS features	System diagnosis
	Fan profile
	AppDeals
Built-in Apps	MyASUS

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/P500MVI78512B2X-Asus-ExpertCenter-P500MV-MT-i7-13620H-Buy-p-337035.php>

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