ASUS S501MD-DB504

ASUS S501MD Desktop PC User Manual

Model: S501MD-DB504

1. Introduction

The ASUS S501MD is a powerful, stylish, and versatile home desktop PC designed for a wide range of uses, including everyday content creation, home working, online learning, and casual gaming. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new desktop PC.

Key Features:

- 12th Gen Intel Core i5-12400 Processor (2.5 GHz, up to 4.4 GHz, 6 cores)
- Windows 11 Home operating system
- 512GB PCIe NVMe M.2 SSD for fast storage
- 16GB DDR4 RAM (expandable up to 64GB)
- Compact Form Factor, weighing approximately 13 lbs
- Seamless connectivity with Dual-Band Wi-Fi 6 (802.11ax) and Bluetooth 5.2
- Comprehensive front and rear I/O ports for various peripherals
- Two-way AI noise cancellation for clear audio communication
- Optimized thermal system for efficient cooling



Figure 1: The ASUS S501MD Desktop PC in a home office setting, showcasing its compact design and connectivity with a monitor, keyboard, and mouse.

2. Package Contents

Upon unpacking your ASUS S501MD Desktop PC, please ensure all the following items are present:

- ASUS S501MD Desktop PC Unit
- Wired Keyboard
- Wired Mouse
- Power Cord
- User Guide (this document)
- Warranty Card

3. Physical Overview

Front Panel I/O Ports:

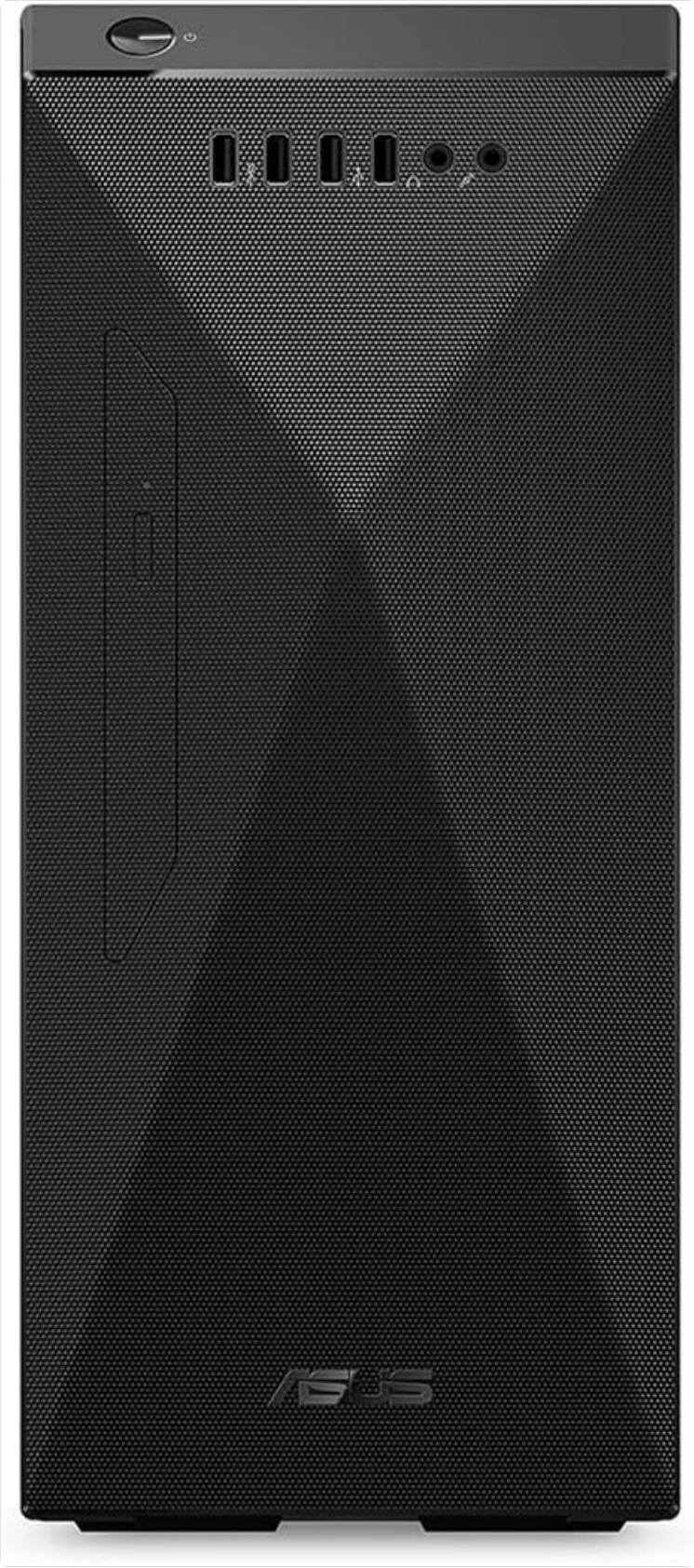


Figure 2: Front panel of the ASUS S501MD Desktop PC, highlighting accessible ports for convenience.

- 1x Headphone jack
- 1x MIC in jack
- 2x USB 2.0 Type-A ports
- 1x USB 3.2 Gen 1 Type-C port
- 1x USB 3.2 Gen 1 Type-A port

Rear Panel I/O Ports:

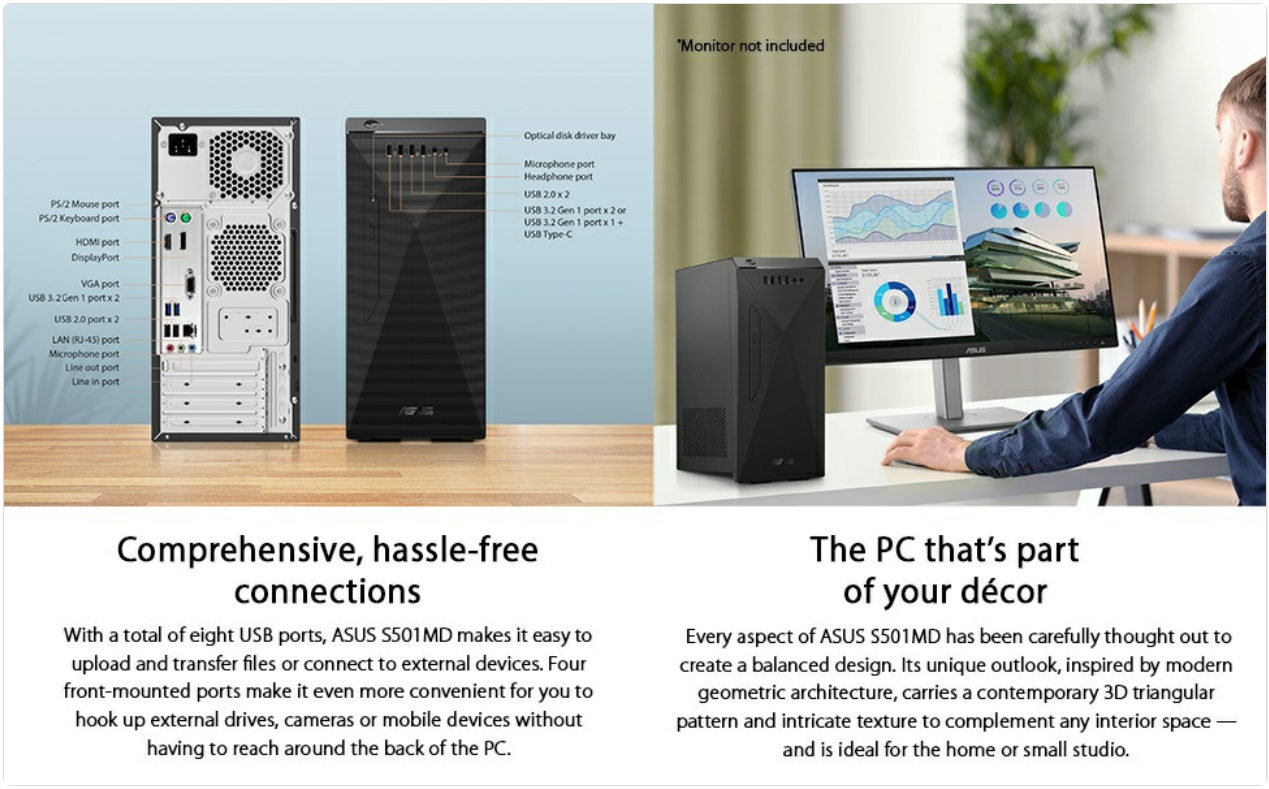


Figure 3: Rear panel connectivity options for the ASUS S501MD Desktop PC, including video, audio, and network ports.

- 1x RJ45 Gigabit Ethernet port
- 2x PS2 ports (for mouse and keyboard)
- 3x Audio jacks
- 2x USB 2.0 Type-A ports
- 2x USB 3.2 Gen 1 Type-A ports
- 1x HDMI 1.4 port
- 1x DisplayPort 1.2
- 1x VGA port

Optical Drive:



Figure 4: The optical drive (DVD-RW) located on the side of the ASUS S501MD Desktop PC.

4. Setup

Follow these steps to set up your ASUS S501MD Desktop PC:

1. **Unpack the PC:** Carefully remove the desktop unit and all accessories from the packaging.
2. **Connect the Monitor:** Connect your monitor to one of the available video output ports (HDMI, DisplayPort, or VGA) on the rear panel of the PC.
3. **Connect Keyboard and Mouse:** Plug the wired keyboard and mouse into the USB ports on either the front or rear panel. PS/2 ports are also available on the rear for compatible devices.
4. **Connect to Network (Optional):** For a wired internet connection, connect an Ethernet cable from your router/modem to the RJ45 port on the rear panel. For Wi-Fi, ensure your PC is within range of a wireless network.
5. **Connect Power:** Plug the power cord into the PC's power input and then into a wall outlet or surge protector.
6. **Power On:** Press the power button located on the front panel of the PC. The system will boot up, and you will be guided through the initial Windows 11 Home setup process.



Figure 5: A complete desktop setup with the ASUS S501MD PC, monitor, keyboard, and mouse.

5. Operating Instructions

Windows 11 Home:

Your ASUS S501MD comes pre-installed with Windows 11 Home. Follow the on-screen prompts during the

first boot to complete the initial setup, including connecting to Wi-Fi, creating a user account, and configuring privacy settings.

Connecting Peripherals:

Utilize the various USB ports (Type-A and Type-C) on the front and rear panels to connect external devices such as printers, external hard drives, webcams, and other accessories.

Wi-Fi and Bluetooth:

The PC supports Dual-Band Wi-Fi 6 (802.11ax) and Bluetooth 5.2. To connect to a Wi-Fi network, click the network icon in the taskbar, select your desired network, and enter the password. For Bluetooth devices, go to Windows Settings > Bluetooth & devices to pair and connect.

AI Noise-Canceling Audio:

The two-way AI noise-canceling audio technology enhances your communication by filtering out background noise from both your microphone input and incoming audio. This feature is particularly useful for video conferencing and online calls.

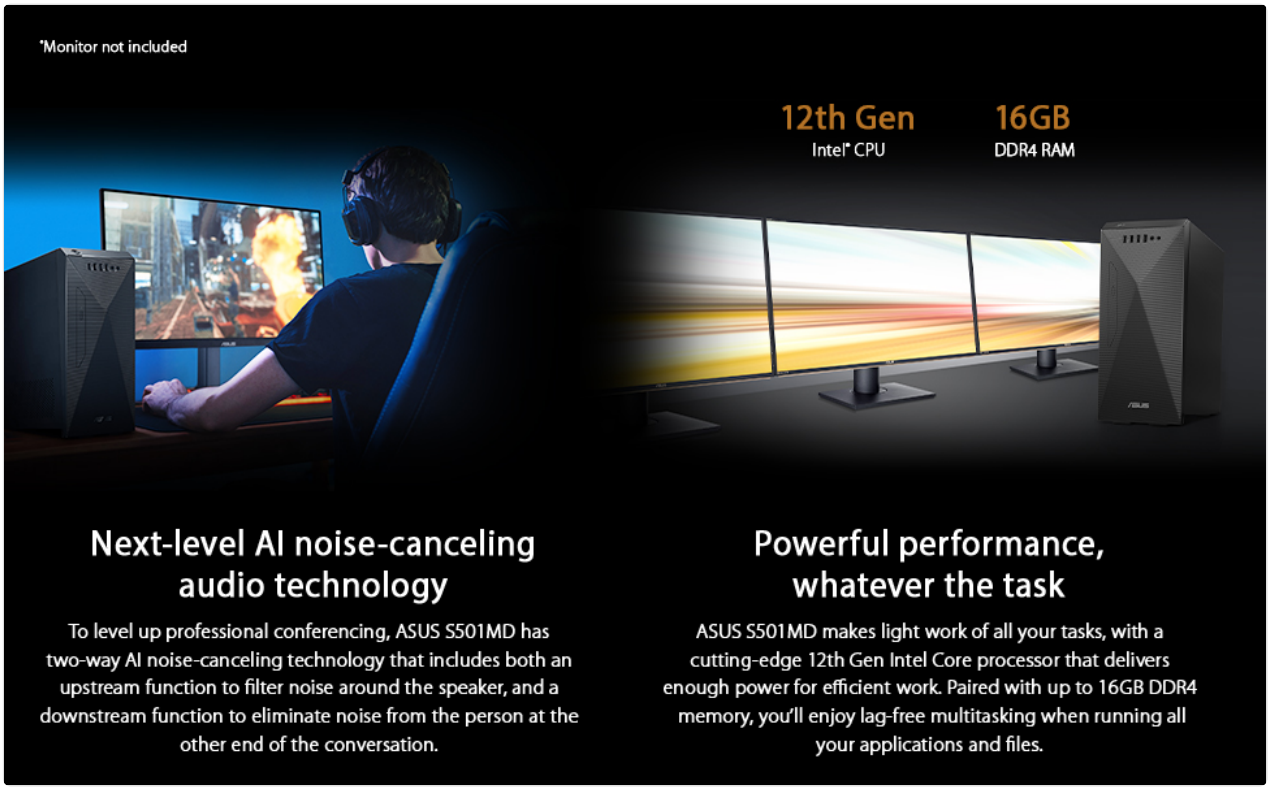


Figure 6: Visual representation of the two-way AI noise-canceling audio technology, improving clarity in communication.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your ASUS S501MD Desktop PC.

System Updates:

Keep your Windows operating system and drivers updated. You can check for Windows updates via Settings > Windows Update. For ASUS-specific drivers and utilities, use the MyASUS application.

Video 1: MyASUS Product Video. This video demonstrates how the MyASUS application helps manage system updates, diagnostics, and customization settings for your ASUS PC.

Cleaning:

- Regularly clean the exterior of the PC with a soft, dry cloth.
- Use compressed air to clear dust from ventilation grilles and ports to maintain optimal airflow.
- Ensure the PC is placed in a well-ventilated area to prevent overheating.



Figure 7: Internal components of the ASUS S501MD Desktop PC, illustrating the optimized thermal system and airflow for efficient cooling.

7. Troubleshooting

If you encounter issues with your ASUS S501MD Desktop PC, try the following troubleshooting steps:

- **No Power:**
  - Check if the power cord is securely connected to both the PC and the wall outlet.
  - Ensure the power outlet is functional by plugging in another device.
  - Verify the power supply unit (PSU) switch (if present) is in the ON position.

- **No Display:**
  - Confirm the monitor is powered on and its video cable is securely connected to the PC.
  - Try connecting the monitor to a different video port on the PC.
  - Ensure the correct input source is selected on your monitor.
- **Slow Performance:**
  - Close unnecessary applications running in the background.
  - Check for and install any pending Windows updates or driver updates.
  - Run a disk cleanup and defragmentation (for HDD, not necessary for SSD).
  - Scan for malware or viruses.
- **Peripheral Not Detected:**
  - Try connecting the peripheral to a different USB port.
  - Restart the PC.
  - Install or update the drivers for the peripheral.

8. Specifications

Feature	Specification
Processor	12th Gen Intel Core i5-12400 (2.5 GHz, up to 4.4 GHz, 6 cores)
Operating System	Windows 11 Home
RAM	16 GB DDR4 (expandable up to 64GB)
Memory Speed	3200 MHz
Storage	512 GB PCIe NVMe M.2 SSD
Graphics Coprocessor	Intel UHD Graphics 770 (Integrated)
Wireless Connectivity	Dual-Band Wi-Fi 6 (802.11ax), Bluetooth 5.2
Optical Drive	DVD-RW
Front I/O Ports	1x Headphone, 1x MIC in, 2x USB 2.0 Type-A, 1x USB 3.2 Gen 1 Type-C, 1x USB 3.2 Gen 1 Type-A
Rear I/O Ports	1x RJ45 Gigabit Ethernet, 2x PS2, 3x Audio jacks, 2x USB 2.0 Type-A, 2x USB 3.2 Gen 1 Type-A, 1x HDMI 1.4, 1x DisplayPort 1.2, 1x VGA port
Expansion Slots	1x PCIe 4.0 x16, 2x PCIe 3.0 x1, 1x M.2 connector for Wi-Fi, 2x M.2 connector for storage, 2x DDR4 U-DIMM Slot

Feature	Specification
Dimensions (LxWxH)	6.3 x 12.56 x 14.48 inches
Item Weight	13.01 pounds
Color	Black

9. Warranty and Support

Your ASUS S501MD Desktop PC comes with a manufacturer's warranty. Please refer to the included Warranty Card for detailed terms and conditions, including coverage period and service procedures.

For technical support, driver downloads, and further assistance, please visit the official ASUS support website or use the pre-installed MyASUS application on your PC. The MyASUS application offers one-click diagnostics and direct contact options for ASUS support.

Video 2: ASUS S501 Product Video. This video provides an overview of the ASUS S501MD Desktop PC, highlighting its features and design.

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