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MSI MS-B0A4

MSI PRO DP21 Mini Business Desktop User Manual

Model: MS-B0A4

1. Introduction

This manual provides detailed instructions for setting up, operating, and maintaining your MSI PRO DP21 Mini Business Desktop. This compact and powerful system is designed for business and productivity, featuring a 13th Gen Intel Core i5-13400 processor, 32GB RAM, 1TB SSD, and Windows 11 Pro. Please read this manual thoroughly before using your device.



Image: Front and rear view of the MSI PRO DP21 Mini Business Desktop, showcasing its compact design and various ports.

2. Package Contents

Verify that all items are present in the package:

- MSI PRO Desktop Unit
- Wired Keyboard
- Wired Mouse
- Power Adapter
- Quick Start Guide (not included in this manual)

If any items are missing or damaged, please contact your retailer.

3. Product Overview

3.1 Key Features

- **Processor:** 13th Gen Intel Core i5-13400 (10 Cores, 16 Threads, up to 4.6GHz)
- **Graphics:** Integrated Intel UHD Graphics
- **Memory:** 32GB DDR5 RAM
- **Storage:** 1TB PCIe NVMe M.2 Solid State Drive
- **Operating System:** Windows 11 Pro
- **Connectivity:** Wi-Fi 6 (802.11ax), Bluetooth 5.3, Gigabit Ethernet (RJ45)
- **Video Output:** HDMI 2.0b, DisplayPort 1.4 (supports 2-monitor 4K output)
- **USB Ports:** 1x USB 3.2 Gen 2 Type-C, 1x USB 3.2 Gen 2 Type-A, 2x USB 3.2 Gen 1 Type-A, 4x USB 2.0 Type-A
- **Audio:** Mic-in, Headphone-out
- **Additional Ports:** DC Jack, COM Port
- **Dimensions:** 8.19 x 8.03 x 2.16 inches
- **Weight:** 8 pounds

3.2 Front Panel

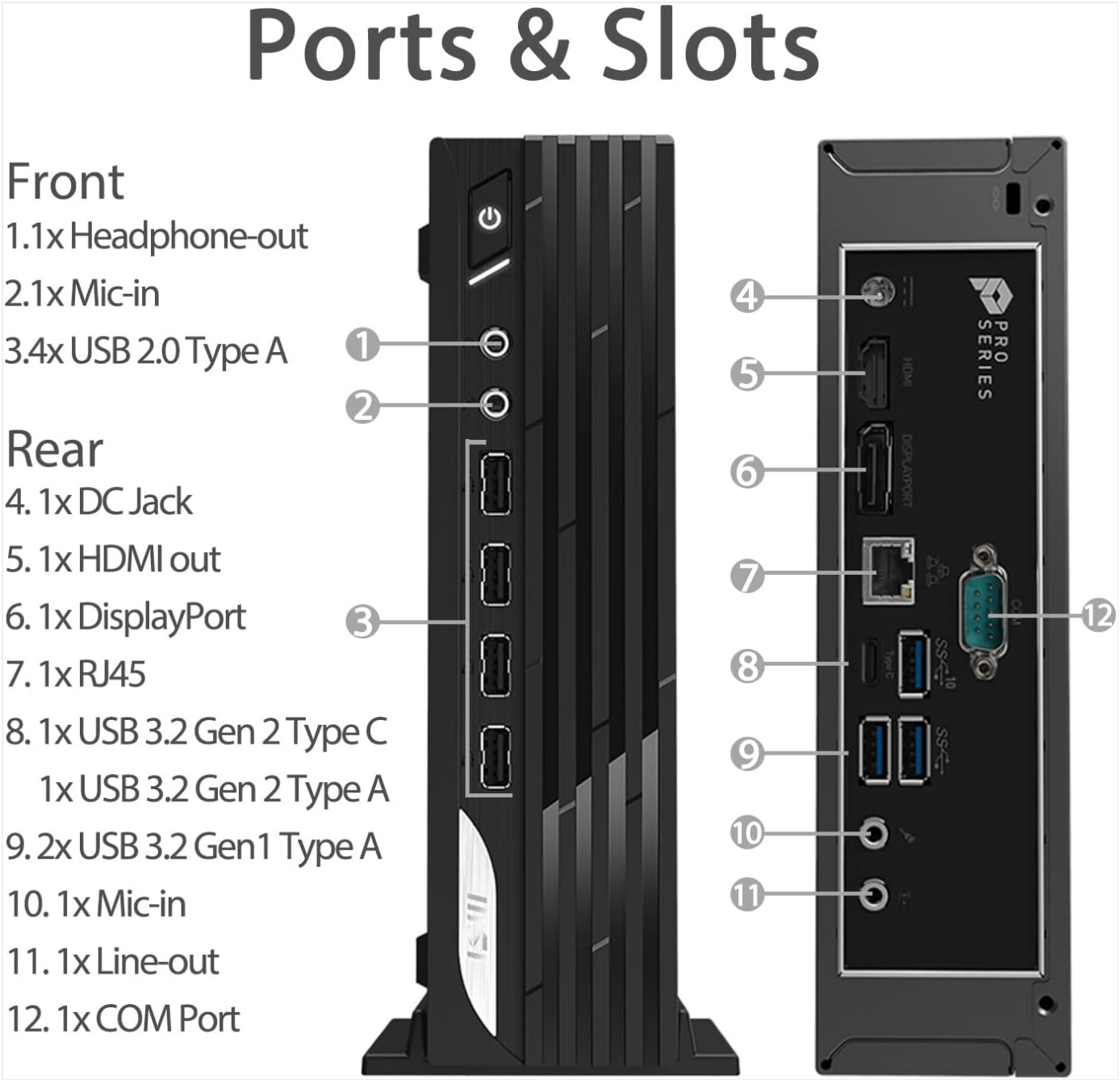


Image: Detailed diagram of the front and rear ports of the MSI PRO DP21 Mini Business Desktop.

1. Headphone-out (1x)
2. Mic-in (1x)
3. USB 2.0 Type-A (3x)
4. Power Button

3.3 Rear Panel

4. DC Jack (1x)
5. HDMI-out (1x, 2.0b)
6. DisplayPort (1x, 1.4)
7. RJ45 (Ethernet) (1x)
8. USB 3.2 Gen 2 Type-C (1x)
9. USB 3.2 Gen 2 Type-A (1x)
10. USB 3.2 Gen 1 Type-A (2x)
11. Mic-in (1x)
12. Line-out (1x)
13. COM Port (1x)

The COM port supports various POS devices, barcode scanners, receipt printers, and programmable logic controllers (PLCs) for industrial applications.



Image: Close-up of the reversible USB Type-C port, highlighting its USB 3.2 Gen 2 capabilities for fast data transfer.



Image: The MSI PRO DP21 Mini Business Desktop mounted on a VESA bracket behind a monitor, demonstrating space-saving installation.

4. Setup Instructions

4.1 Connecting Peripherals

1. **Connect Monitor(s):** Use an HDMI or DisplayPort cable to connect your monitor(s) to the corresponding ports on the rear panel. The system supports up to two 4K monitors.
2. **Connect Keyboard and Mouse:** Plug the wired keyboard and mouse into any available USB ports (USB 2.0 or USB 3.2) on the front or rear panel.
3. **Connect Network:** For a wired connection, plug an Ethernet cable into the RJ45 port on the rear panel. For wireless, ensure the Wi-Fi antennas (if external) are connected, or the internal Wi-Fi 6 module will be active upon boot.
4. **Connect Power:** Plug the power adapter into the DC Jack on the rear panel, then connect the power cord to an electrical outlet.

4.2 Initial Boot-up

1. Press the power button located on the front panel.
2. The system will boot into Windows 11 Pro. Follow the on-screen instructions to complete the initial setup, including language, region, network connection, and user account creation.
3. Ensure all drivers are up-to-date for optimal performance. Windows Update will typically handle this automatically.

5. Operating Instructions

5.1 Windows 11 Pro

Your MSI PRO DP21 comes pre-installed with Windows 11 Pro, offering advanced features for productivity and security.

- **Snap Layouts:** Organize your open applications efficiently using pre-configured window arrangements.
- **Desktops:** Create multiple virtual desktops to separate work, personal, or project-specific applications.
- **Microsoft Teams Integration:** Collaborate easily with built-in Microsoft Teams functionality.
- **Security:** Benefit from enhanced security features of Windows 11 Pro.

5.2 Network Connectivity

- **Wi-Fi 6:** Connect to wireless networks for high-speed internet access. Manage Wi-Fi connections through the Windows settings.
- **Ethernet:** For a stable and fast wired connection, use the RJ45 port.
- **Bluetooth 5.3:** Pair Bluetooth-enabled devices such as headphones, speakers, or input devices through Windows Bluetooth settings.



Image: The MSI PRO DP21 Mini Business Desktop positioned on a desk, illustrating its wireless connectivity capabilities with Wi-Fi 6 and Bluetooth 5.3.

6. Maintenance

- **Software Updates:** Regularly check for and install Windows updates and driver updates to ensure system stability and security.
- **Dust Cleaning:** Periodically clean the exterior of the desktop and ensure ventilation openings are free from dust to prevent overheating. Use compressed air for hard-to-reach areas.
- **Data Backup:** Regularly back up important data to an external drive or cloud storage to prevent data loss.
- **System Restore:** Familiarize yourself with Windows 11 Pro's system restore options in case of software issues.

7. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power	Power cable disconnected, power adapter faulty, power outlet issue.	Check power cable connections. Try a different power outlet. Ensure the power adapter is functioning.
No display on monitor	Monitor cable loose, incorrect input source selected on monitor, monitor faulty.	Ensure monitor cables (HDMI/DP) are securely connected. Select the correct input source on your monitor. Test with another monitor if possible.
System is slow	Too many applications running, insufficient RAM, malware, outdated drivers.	Close unnecessary applications. Check Task Manager for resource-intensive processes. Run a malware scan. Update Windows and drivers.
Fan noise is loud or inconsistent	Dust accumulation, high CPU/GPU load, fan malfunction.	Clean dust from ventilation areas. Ensure proper airflow. Monitor CPU/GPU usage. If persistent, contact support.
Wi-Fi connection issues	Incorrect Wi-Fi password, router issues, driver problems.	Verify Wi-Fi password. Restart your router. Update Wi-Fi drivers.

8. Specifications

Feature	Detail
Brand	MSI
Model Number	MS-B0A4
Processor	Intel Core i5-13400 (10 Cores, up to 4.6 GHz)
RAM	32 GB DDR5
Memory Speed	3200 MHz
Hard Drive	1 TB SSD (PCIe NVMe M.2)
Graphics Coprocessor	Intel UHD Graphics
Operating System	Windows 11 Pro
Wireless Type	802.11ax (Wi-Fi 6)
Bluetooth	Bluetooth 5.3
USB 2.0 Ports	4
USB 3.0/3.2 Ports	4 (1x Type-C Gen 2, 1x Type-A Gen 2, 2x Type-A Gen 1)
Video Output	1x HDMI 2.0b, 1x DisplayPort 1.4
Ethernet	1x RJ45
Audio Ports	Mic-in, Headphone-out, Line-out
Additional Ports	DC Jack, COM Port

Feature	Detail
Product Dimensions (LxWxH)	8.19 x 8.03 x 2.16 inches
Item Weight	8 pounds

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official MSI website.
If you purchased this product from a third-party seller, please contact them directly for specific return or exchange policies.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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