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msi PRO DP21

MSI PRO DP21 Mini Desktop Computer User Manual

Model: PRO DP21 (MS-B0A4)

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your MSI PRO DP21 Mini Desktop Computer. Please read this guide thoroughly before using the product to ensure proper functionality and safety.



Image 1.1: The MSI PRO DP21 Mini Desktop Computer, showcasing its compact design.

The image displays two MSI PRO DP21 mini desktop computers. One unit is positioned horizontally, showing its front panel with power button, audio jacks, and USB ports. The other unit is standing vertically, revealing its rear panel with various connectivity options. Both units are black with a sleek, compact form factor, highlighting the product's small footprint.



Image 1.2: Size comparison of the MSI PRO DP21 Mini PC with a 27-inch monitor.

This image visually compares the compact size of the MSI PRO DP21 mini PC (2.3 liters volume) next to a 27-inch computer monitor. It highlights the small footprint of the desktop, emphasizing its "Tiny Yet Powerful" characteristic and its ability to fit into various workspaces without occupying much space.

The MSI PRO DP21 is a compact and powerful desktop solution, featuring a 13th Gen Intel Core i3-13100 processor, 16GB RAM, and a 512GB SSD, designed for efficient performance in various environments. It supports 4K resolution and dual monitors, making it suitable for business and productivity tasks.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- MSI PRO DP21 Mini Desktop Computer
- Wired Keyboard
- Wired Mouse
- Power Adapter and Cable
- Quick Start Guide (not included in this manual)
- Warranty Card (if applicable)

3. PRODUCT OVERVIEW

Familiarize yourself with the components and ports of your MSI PRO DP21.

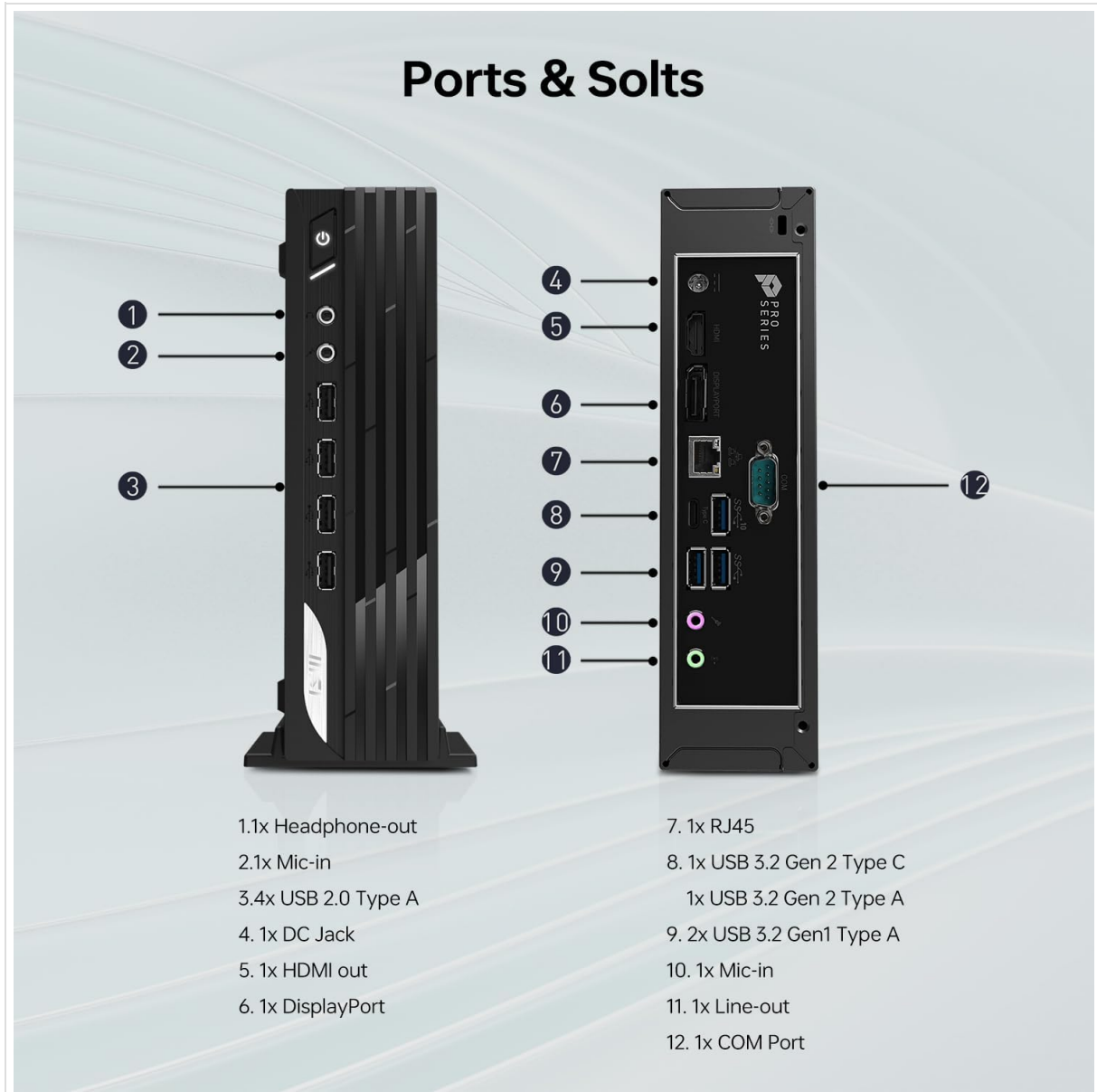


Image 3.1: Front and Rear Port Layout of the MSI PRO DP21.

This image provides a detailed diagram of the front and rear ports on the MSI PRO DP21. The front panel includes a power button, headphone-out, mic-in, and multiple USB 2.0 Type-A ports. The rear panel features a DC power input, HDMI-out, DisplayPort, RJ45 Ethernet, USB 3.2 Gen 2 Type-C, USB 3.2 Gen 2 Type-A, USB 3.2 Gen 1 Type-A ports, mic-in, line-out, and a COM port. Each port is clearly numbered and labeled for easy identification.

Front Panel Ports:

- **Power Button:** To turn the computer on or off.
- **Headphone-out (1x):** Connect headphones or external speakers.
- **Mic-in (1x):** Connect a microphone.
- **USB 2.0 Type-A (4x):** For connecting peripherals like keyboards, mice, or USB drives.

Rear Panel Ports:

- **DC Jack (1x):** Connect the power adapter.
- **HDMI-out (1x, 2.0b):** Connect to a display device (monitor, TV) for video and audio output. Supports up to 4K resolution.
- **DisplayPort (1x, 1.4):** Connect to a display device for video and audio output. Supports up to 4K resolution.
- **RJ45 (1x):** Connect to a wired network (Ethernet).

- **USB 3.2 Gen 2 Type-C (1x):** High-speed data transfer and display output (DP1.4+HDMI2.0).
- **USB 3.2 Gen 2 Type-A (1x):** High-speed data transfer.
- **USB 3.2 Gen 1 Type-A (2x):** High-speed data transfer.
- **Mic-in (1x):** Connect a microphone.
- **Line-out (1x):** Connect to external speakers or audio systems.
- **COM Port (1x):** For connecting legacy serial devices, often used in industrial or specialized business applications.

4. SETUP GUIDE

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 of the mini PC. The system supports up to two 4K displays simultaneously.
2. **Connect Keyboard and Mouse:** Plug the wired keyboard and mouse into any available USB Type-A ports on the front or rear panel.
3. **Connect Power:** Connect the power adapter to the DC Jack on the rear panel, then plug the power cable into an electrical outlet.
4. **Optional: Network Connection:** For a wired internet connection, connect an Ethernet cable from your router/modem to the RJ45 port on the rear panel.

4.2 Initial Power On

1. Ensure all peripherals are connected and the power cable is securely plugged in.
2. Press the Power Button on the front panel of the mini PC.
3. Follow the on-screen instructions to complete the Windows 11 Pro setup process.

4.3 VESA Mounting (Optional)

The MSI PRO DP21 supports VESA mounting, allowing you to attach it to the back of a compatible monitor or to a VESA mount arm, saving desk space.

VESA Mountable Design

The VESA Mountable design allows you to hook up PRO DP21 anywhere you like that not only improves the flexibility while working with it but also let users have a good space management at home or in the office.



Image 4.1: MSI PRO DP21 mounted behind a monitor using a VESA bracket.

This image illustrates the MSI PRO DP21 mini PC mounted on the back of a computer monitor using a VESA bracket. The image shows the compact computer neatly integrated with the display, demonstrating how the VESA mount design helps save desk space and improves flexibility in various work environments. A smaller inset image shows a close-up of the mounting mechanism.

Refer to the VESA mounting kit instructions (sold separately) for detailed installation steps.

5. OPERATING INSTRUCTIONS

5.1 Windows 11 Pro

Your MSI PRO DP21 comes pre-installed with Windows 11 Pro. This operating system offers enhanced productivity features, a redesigned user interface, and robust security. For detailed information on Windows 11 Pro, please refer to Microsoft's official documentation.

5.2 Network Connectivity

- **Wi-Fi:** The system includes built-in Wi-Fi. After initial setup, click the network icon in the taskbar, select your desired Wi-Fi network, and enter the password to connect.
- **Ethernet:** If you connected an Ethernet cable during setup, your computer should automatically connect to the wired network.

5.3 Multi-Monitor Setup

The MSI PRO DP21 supports connecting two monitors simultaneously via its HDMI and DisplayPort outputs, or using the

USB-C port for display output. This allows for an extended desktop experience, enhancing productivity.

Ready For Various Scenarios

4K UHD
3840 x 2160

We always focus on how to improve the efficiency, stability and flexibility for users in any kinds of situations.



Image 5.1: MSI PRO DP21 connected to a dual-monitor setup.

This image shows the MSI PRO DP21 mini PC connected to two external monitors, demonstrating its capability for a dual-display setup. The monitors display various productivity applications, highlighting the system's suitability for business and multi-tasking scenarios. The image also emphasizes 4K UHD resolution support.

To configure multiple displays in Windows 11 Pro:

1. Right-click on an empty area of your desktop.
2. Select "Display settings."
3. Under "Multiple displays," you can detect, identify, and arrange your monitors. Choose between "Extend these displays" or "Duplicate these displays" as needed.

6. MAINTENANCE

6.1 Cleaning

- Always power off the computer and disconnect it from the power outlet before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe the exterior.
- Use compressed air to clear dust from vents and ports. Do not spray liquid directly onto the computer.

6.2 Software Updates

- Regularly check for and install Windows updates to ensure system stability and security. Go to **Settings > Windows Update**.
- Keep your drivers updated. Visit the official MSI website for the latest drivers for your PRO DP21 model.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **No Power:**
 - Ensure the power adapter is securely connected to both the computer and a working electrical outlet.
 - Test the outlet with another device.
- **No Display on Monitor:**
 - Verify that the monitor is powered on and the correct input source is selected.
 - Check that the HDMI or DisplayPort cable is securely connected to both the computer and the monitor.
 - Try connecting to a different display or using a different cable if available.
- **No Internet Connection:**
 - **Wired (Ethernet):** Ensure the Ethernet cable is properly connected to the RJ45 port and your router/modem. Check your router's status.
 - **Wireless (Wi-Fi):** Verify that Wi-Fi is enabled in Windows settings and you are connected to the correct network with the correct password. Restart your router/modem.
- **Peripherals (Keyboard/Mouse) Not Responding:**
 - Ensure the USB cables are securely plugged into the computer's USB ports.
 - Try connecting them to different USB ports.
 - Restart the computer.

If problems persist, refer to the MSI support website or contact customer service.

8. SPECIFICATIONS

Detailed technical specifications for the MSI PRO DP21 Mini Desktop Computer (Model: MS-B0A4).

| Feature | Specification |
|---------------------------|--|
| Processor | Intel Core i3-13100 (4 Cores, 8 Threads, up to 4.5GHz) |
| Graphics | Intel UHD Graphics (Integrated) |
| RAM | 16 GB DDR4 (3200 MHz) |
| Storage | 512 GB PCIe NVMe M.2 SSD |
| Operating System | Windows 11 Pro |
| Video Output | 1x HDMI 2.0b (4K@60Hz), 1x DisplayPort 1.4 (4K@60Hz), 1x USB Type-C (DP1.4+HDMI2.0) |
| USB Ports | 4x USB 2.0 Type-A, 1x USB 3.2 Gen 2 Type-A, 2x USB 3.2 Gen 1 Type-A, 1x USB 3.2 Gen 2 Type-C |
| Audio Ports | 1x Headphone-out, 2x Mic-in, 1x Line-out |
| Network | RJ45 Ethernet, Wi-Fi (801.11ac), Bluetooth |
| Other Ports | 1x COM Port |
| Dimensions (LxWxH) | 8.19 x 8.03 x 2.16 inches |

| Feature | Specification |
|-------------------|---------------|
| Weight | 8 pounds |
| Hardware Platform | PC |
| Model Number | MS-B0A4 |

9. SAFETY INFORMATION

- Do not expose the device to moisture or extreme temperatures.
- Avoid placing the device near strong magnetic fields.
- Ensure proper ventilation to prevent overheating. Do not block ventilation openings.
- Use only the power adapter provided with the device.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified service personnel.

10. WARRANTY AND SUPPORT

For warranty information, technical support, and driver downloads, please visit the official MSI website:

www.msi.com

You may also contact MSI customer service for assistance with product-related inquiries.