MINISFORUM M1 Plus-1260

MINISFORUM M1 Plus Mini PC User Manual

MODEL: M1 PLUS-1260

Brand: MINISFORUM

Product
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Maintenance Troubleshooting Specifications Warranty & Support

1. OVERVIEW

The MINISFORUM M1 Plus Mini PC is a compact and powerful computing solution designed for various applications, from office work and multimedia to light gaming. Equipped with an Intel Core i5-12600H processor, 16GB DDR5 RAM, and a 512GB PCIe 4.0 SSD, it delivers robust performance in a small form factor. This manual provides essential information for setting up, operating, and maintaining your M1 Plus Mini PC.

2. PACKAGE CONTENTS

Please check the box for the following items:

- 1x M1 Plus Mini PC
- 1x HDMI Cable
- 1x US Power Adapter
- 1x Manual

Figure 2.1: M1 Plus Mini PC Package Contents

3. PRODUCT FEATURES

3.1 High Performance Processor

The M1 Plus Mini PC is powered by an Intel Core i5-12600H processor, featuring 12 cores and 16 threads with a maximum turbo frequency of 4.5 GHz. This processor, combined with Intel Iris Xe Graphics, provides excellent performance for internet browsing, office applications, and multimedia tasks.

Figure 3.1: Intel Core i5-12600H Processor Overview

3.2 Triple Video Output

The M1 Plus supports simultaneous output to up to three HD screens via 1x HDMI 2.1 (4K@60Hz), 1x DP 1.4 (4K@120Hz), and 1x USB4 port. This capability enhances productivity by allowing for an expanded workspace.

Figure 3.2: Triple Display Output Configuration

3.3 Stable and High-Speed Network Transmission

Equipped with two 2.5G RJ45 Ethernet ports, the M1 Plus ensures a stable and robust network connection, reducing CPU load and minimizing latency for smooth internet experiences. It also features WiFi 6E and Bluetooth 5.2 for seamless wireless connectivity.
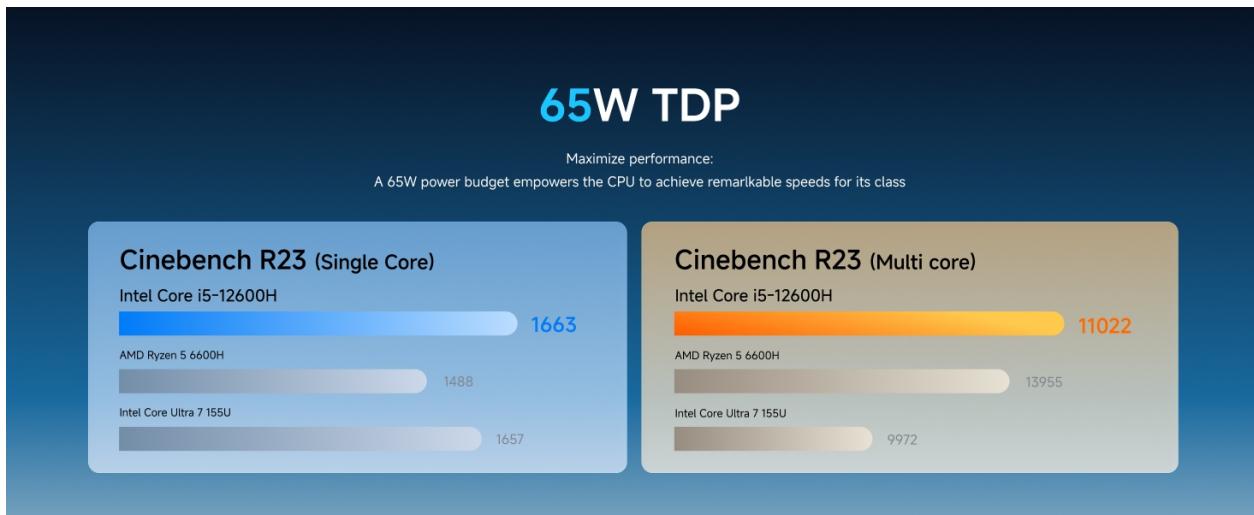

Figure 3.3: Dual 2.5Gbps LAN Ports

3.4 Expandable Capacity

The Mini PC includes 16GB of DDR5-4800MHz memory (expandable up to 96GB) and a 512GB M.2 2280 PCIe 4.0 SSD (expandable up to 2TB). The PCIe 4.0 SSD offers significantly faster read/write speeds compared to SATA SSDs, improving operating system and game performance.

3.5 Comprehensive I/O Options

The M1 Plus offers a wide array of connectivity ports for various peripherals and external devices:

- 1x HDMI 2.1 Port
- 1x DP 1.4 Port
- 1x USB4 Port
- 2x USB 3.2 Ports
- 2x USB 2.0 Ports
- 2x 2.5G LAN Ports
- 1x 3.5mm Audio Jack

- 2x DDR5 SODIMM Slots

Active Cooling

A dedicated active cooling fan directly cools the DDR/SSD, efficiently dissipates heat, and ensures system stability. With a quiet design of below 45dB during normal use, it provides a quiet and comfortable computing experience.

Figure 3.4: Versatile Ports Layout

3.6 Compact Design

The M1 Plus features a palm-sized design, making it a space-saving solution for any desk setup while maintaining powerful performance.

Support for 3 screens for efficient work

HDMI 2.1 (4K@60hz)   DP 1.4 (8K@60hz/ (4K@144hz)   USB4 (8K@60hz/ (4K@144hz)

Figure 3.5: Compact PC Design

4. SETUP GUIDE

Follow these steps to set up your MINISFORUM M1 Plus Mini PC:

1. **Connect to Power:** Connect the US Power Adapter to the DC 19V input port on the rear of the Mini PC, then plug the adapter into a power outlet.

2. **Connect to Display:** Use the provided HDMI cable or a DisplayPort/USB4 cable to connect your monitor(s) to the corresponding video output ports on the Mini PC.

3. **Connect Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB ports.

4. **Network Connection:** For a wired connection, connect an Ethernet cable from your router or modem to one of the 2.5G LAN ports. For wireless, ensure your WiFi network is available.

5. **Power On:** Press the power button located on the front of the Mini PC. The system will boot up.

6. **Initial Setup:** Follow the on-screen instructions to complete the operating system setup (if applicable).

5. Operating Instructions

5.1 Basic Operation

- **Power On/Off:** Press the power button to turn the PC on. To turn off, use the operating system's shutdown function or press and hold the power button for a few seconds for a forced shutdown (not recommended for regular use).
- **Restart:** Use the operating system's restart function.
- **Sleep Mode:** Use the operating system's sleep function.

5.2 Graphics Configuration Note

When the Mini PC operates with a single DDR memory stick, the Device Manager may display "Intel UHD Graphics." When two DDR memory sticks are installed (dual-channel configuration), it will display "Intel Iris Xe Graphics," indicating enhanced graphics performance.

6. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your Mini PC:

- **Keep Clean:** Regularly clean the exterior of the Mini PC with a soft, dry cloth. Ensure ventilation holes are free from dust and obstructions.
- **Software Updates:** Keep your operating system and drivers updated to the latest versions for security and performance improvements.
- **Avoid Extreme Conditions:** Do not expose the Mini PC to extreme temperatures, humidity, or direct sunlight.
- **Proper Shutdown:** Always shut down the system properly through the operating system to prevent data corruption.
- **Internal Cleaning (Advanced Users):** If comfortable, periodically open the case to gently clean dust from the internal components, especially the fan and heatsinks, using compressed air. Refer to the internal view image for guidance.
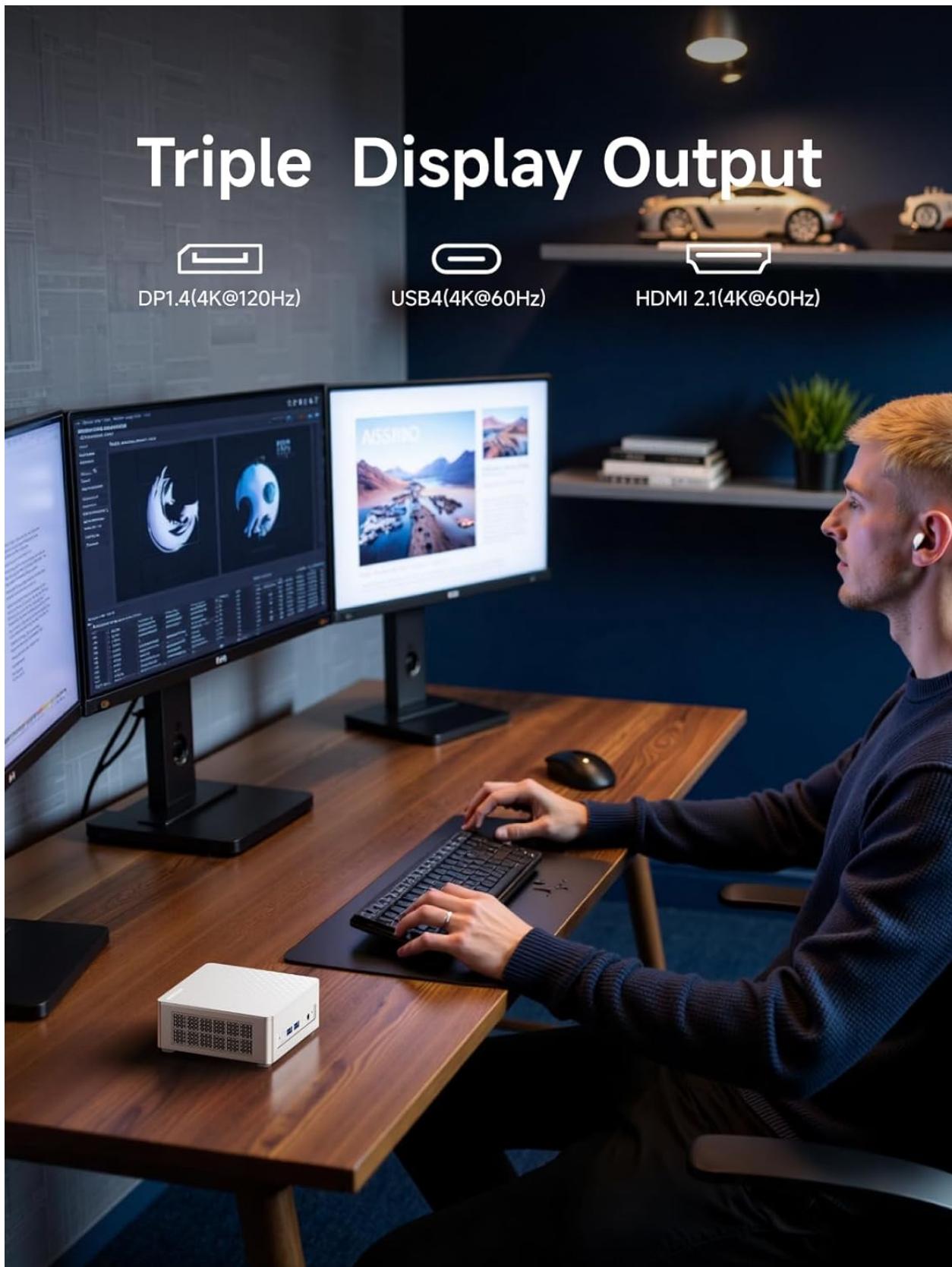
Figure 6.1: Internal Components for Maintenance

7. TROUBLESHOOTING

If you encounter issues with your M1 Plus Mini PC, refer to the following common solutions:

- **No Power:**

  - Ensure the power adapter is securely connected to both the Mini PC and a working power outlet.
  - Test the power outlet with another device.

- **No Display:**

    - Verify that the HDMI, DisplayPort, or USB4 cable is securely connected to both the Mini PC and the monitor.
    - Ensure the monitor is powered on and set to the correct input source.
    - Try a different display cable or monitor if possible.

- **No Internet Connection:**

    - For wired connections, check the Ethernet cable and router/modem status.
    - For wireless connections, ensure WiFi is enabled in the operating system and you are connected to the correct network.
    - Restart your router/modem and the Mini PC.

- **System Slowdown:**

    - Check for background applications consuming high CPU or RAM resources.
    - Ensure sufficient free space on the SSD.
    - Update drivers and operating system.

- **Peripheral Not Detected:**

    - Try connecting the peripheral to a different USB port.
    - Ensure the peripheral's drivers are installed correctly.

If problems persist, please contact MINISFORUM customer support.

8. SPECIFICATIONS

Feature	Detail
Processor	Intel Core i5-12600H (12 Cores/16 Threads, up to 4.5 GHz)
Graphics	Intel Iris Xe Graphics (up to 1.40GHz)
RAM	16GB DDR5-4800MHz (2x SODIMM slots, expandable up to 96GB)
Storage	512GB M.2 2280 PCIe 4.0 SSD (expandable up to 2TB)
Video Output	1x HDMI 2.1 (4K@60Hz), 1x DP 1.4 (4K@120Hz), 1x USB4 (4K@60Hz)
Network	2x 2.5G RJ45 LAN Ports, WiFi 6E, Bluetooth 5.2
USB Ports	1x USB4, 2x USB 3.2, 2x USB 2.0
Audio	1x 3.5mm Audio Jack
Operating System	OS (Pre-installed or user-installable)
Dimensions	Approx. 6 x 5 x 4 inches
Weight	Approx. 2.6 pounds

9. WARRANTY AND SUPPORT

MINISFORUM products typically come with a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official MINISFORUM website for detailed warranty terms and conditions specific to your region.

For technical support, product inquiries, or service requests, please visit the MINISFORUM official support page or contact their customer service team. Keep your purchase receipt and product serial number handy when seeking support.

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