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- › [MINISFORUM](#) /
- › [MINISFORUM DeskMini UM580D Mini PC User Manual](#)

## MINISFORUM UM580D

# MINISFORUM DeskMini UM580D Mini PC User Manual

Model: UM580D

[Overview](#)   [Setup](#)   [Operation](#)   [Introduction](#)   [Maintenance](#)   [Package Contents](#)   [Troubleshooting](#)   [Product](#)   [Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

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This manual provides detailed instructions for the setup, operation, and maintenance of your MINISFORUM DeskMini UM580D Mini PC. Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage.

The MINISFORUM DeskMini UM580D is a compact and powerful desktop computer featuring an AMD Ryzen 7 5800H processor, designed for various tasks including office work, multimedia consumption, and light gaming. Its small form factor allows for versatile placement options.

## 2. PACKAGE CONTENTS

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Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1x MINISFORUM UM580D Mini PC
- 1x HDMI Cable
- 1x Mounting Bracket
- 1x Power Adapter (US)
- 1x User Manual

## 3. PRODUCT OVERVIEW

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The MINISFORUM DeskMini UM580D is engineered for performance in a compact design. Below is an overview of its external features and internal components.



Figure 3.1: Front view of the MINISFORUM DeskMini UM580D Mini PC with stand.

### 3.1 Front and Rear Ports

The device features a variety of ports for connectivity. Refer to the diagram below for port identification.

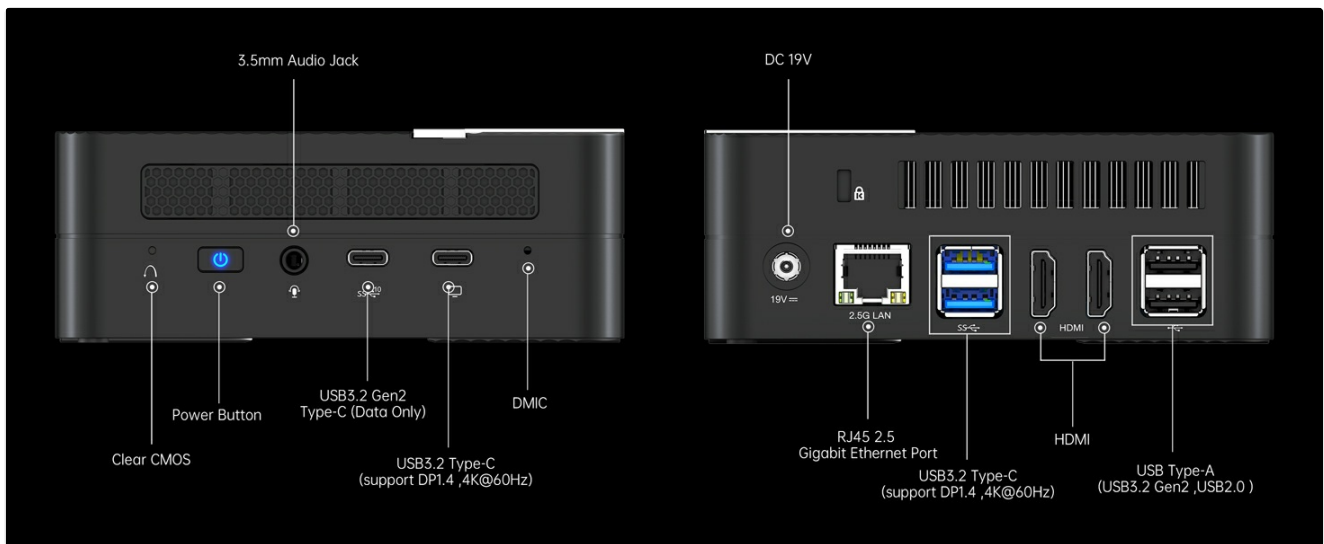


Figure 3.2: Detailed diagram of front and rear ports on the UM580D.

- **Front Ports:** Power Button, Clear CMOS, 3.5mm Audio Jack, USB3.2 Gen2 Type-C (Data Only), USB3.2 Type-C (support DP1.4, 4K@60Hz), DMIC.
- **Rear Ports:** DC 19V Power Input, RJ45 2.5 Gigabit Ethernet Port, USB3.2 Type-C (support DP1.4, 4K@60Hz), 2x HDMI (4K@60Hz), 2x USB Type-A (USB3.2 Gen2), 2x USB Type-A (USB2.0).

### 3.2 Internal Components and Upgradeability

The UM580D offers upgrade options for memory and storage.

DDR4 16GB×2 Dual channel  
(SODIMM Slots×2)

M.2 2280 512GB PCIe SSD



Figure 3.3: Exploded view showing internal components, including RAM and storage slots.

- **RAM:** Two SODIMM slots for DDR4 memory, each supporting up to 32GB.
- **NVMe SSD:** One M.2 2280 NVMe SSD slot, pre-installed with 512GB, expandable up to 2TB.
- **SATA HDD:** One 2.5-inch SATA HDD slot, supporting up to 2TB.

## 4. SETUP INSTRUCTIONS

Follow these steps to set up your MINISFORUM DeskMini UM580D Mini PC.

1. **Connect to a Display:** Use the provided HDMI cable to connect the Mini PC to your monitor or TV. The device supports up to three displays via two HDMI ports and one USB-C port (DisplayPort Alt Mode).
2. **Connect Peripherals:** Connect your keyboard, mouse, and other USB devices to the available USB ports.
3. **Connect to Network:** For a wired connection, connect an Ethernet cable to the 2.5 Gigabit LAN port. For wireless, ensure your Wi-Fi network is available during initial setup.
4. **Connect Power:** Plug the power adapter into the DC 19V port on the Mini PC, then plug the adapter into a power outlet.

5. **Power On:** Press the power button located on the front of the Mini PC. The system will boot up.
6. **Initial Configuration:** Follow the on-screen instructions to complete the operating system setup (if applicable).

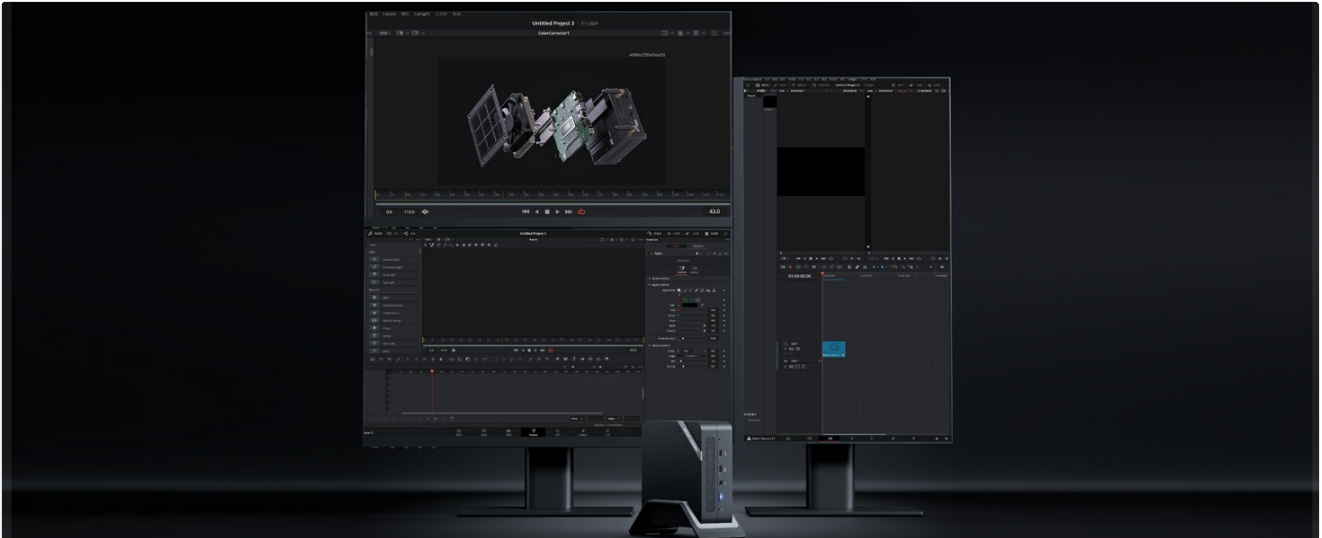


Figure 4.1: Example of the UM580D connected to multiple displays for an extended workspace.

## 5. OPERATING INSTRUCTIONS

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This section covers basic operation and features of your Mini PC.

### 5.1 Power On/Off and Restart

- **Power On:** Press the power button once.
- **Shut Down:** From the operating system, select "Shut Down." Alternatively, press and hold the power button for 4-6 seconds to force a shutdown (use only when necessary).
- **Restart:** From the operating system, select "Restart."

### 5.2 Display Configuration

The UM580D supports up to three independent 4K@60Hz displays. You can configure display settings through your operating system.

- **Windows:** Right-click on the desktop, select "Display settings," and arrange your monitors as desired (Extend, Duplicate, or Show only on 1/2/3).
- **Linux:** Use your desktop environment's display settings utility (e.g., GNOME Display Settings, KDE System Settings).

### 5.3 Network Connectivity

- **Wired (Ethernet):** Connect an RJ45 cable to the 2.5G LAN port for high-speed internet access.
- **Wireless (Wi-Fi):** The Mini PC supports 802.11 ax (Wi-Fi 6). Connect to your preferred wireless network through the operating system's network settings.
- **Bluetooth:** Integrated Bluetooth allows connection to wireless peripherals like keyboards, mice, and headphones.

## 6. MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to clear dust from ventilation openings to maintain proper airflow and cooling. Ensure the device is powered off and unplugged before cleaning.
- **Software Updates:** Keep your operating system, drivers, and applications updated to the latest versions for security and performance improvements.
- **Storage Management:** Regularly manage your storage by deleting unnecessary files and uninstalling unused applications to free up space and improve system responsiveness.
- **Hardware Upgrades:** If upgrading RAM or storage, ensure the device is powered off and unplugged. Refer to Section 3.2 for compatible upgrade options. Handle components with care and use anti-static precautions.



Figure 6.1: Diagram illustrating the cooling system of the UM580D, highlighting the importance of clear ventilation.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Mini PC.

Problem	Possible Cause	Solution
No power / System does not turn on	Power adapter not connected properly; Faulty power outlet; Power button issue.	Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Test the power outlet with another device. Try pressing the power button firmly.
No display output	Incorrect display cable connection; Monitor input not selected; Display driver issue.	Verify HDMI or USB-C display cables are securely connected to both the Mini PC and the monitor. Ensure the correct input source is selected on your monitor. Try a different display cable or monitor if available. If the system boots but shows no display, try connecting to a different port or monitor.

Problem	Possible Cause	Solution
Slow performance	Too many applications running; Insufficient RAM; Full storage drive; Overheating.	Close unnecessary applications. Check Task Manager (Windows) or System Monitor (Linux) for resource usage. Consider upgrading RAM or SSD if frequently encountering performance bottlenecks. Ensure ventilation is clear and the device is not overheating.
Network connectivity issues	Loose Ethernet cable; Incorrect Wi-Fi password; Driver issues; Router problems.	For wired connection, ensure the Ethernet cable is properly connected. For Wi-Fi, double-check the password and ensure you are connecting to the correct network. Restart your router and modem. Update network drivers.

If you encounter issues not covered here, or if the suggested solutions do not resolve the problem, please contact MINISFORUM customer support for further assistance.

## 8. SPECIFICATIONS

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Below are the key technical specifications for the MINISFORUM DeskMini UM580D Mini PC.

Feature	Detail
<b>Model</b>	UM580D
<b>Processor</b>	AMD Ryzen 7 5800H (8 Cores/16 Threads, up to 4.4GHz)
<b>Graphics</b>	Integrated AMD Radeon Graphics (Graphics Frequency 2000 MHz)
<b>RAM</b>	DDR4 32GB (2x SODIMM slots, expandable up to 64GB)
<b>Storage</b>	512GB M.2 2280 NVMe SSD (expandable up to 2TB), 1x 2.5-inch SATA HDD slot (up to 2TB)
<b>Video Output</b>	2x HDMI (4K@60Hz), 1x USB-C (DisplayPort 1.4, 4K@60Hz) - Triple Display Support
<b>Network</b>	2.5 Gigabit Ethernet (RJ45), Wi-Fi 802.11ax, Bluetooth
<b>USB Ports</b>	2x USB 3.2 Gen2 Type-A, 2x USB 2.0 Type-A, 1x USB 3.2 Gen2 Type-C (Data Only), 1x USB 3.2 Gen2 Type-C (DP1.4)
<b>Audio</b>	3.5mm Audio Jack, DMIC
<b>Operating System</b>	OS (Pre-installed, specific version may vary)
<b>Dimensions (LxWxH)</b>	5 x 5 x 1.89 inches (12.8 x 12.66 x 4.65 cm)
<b>Weight</b>	Approximately 2.7 pounds

# Lightweight and powerful



Figure 8.1: Dimensions of the MINISFORUM DeskMini UM580D Mini PC.

## 9. WARRANTY AND SUPPORT

MINISFORUM products come with a standard warranty. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official MINISFORUM website.

For technical support, troubleshooting assistance, or warranty claims, please contact MINISFORUM customer service. Contact information can typically be found on the official website or in the product documentation.

When contacting support, please have your product model (UM580D) and purchase information readily available.

