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MINISFORUM UM870 Slim

MINISFORUM DeskMini UM870 Slim Mini PC User Manual

1. INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your MINISFORUM DeskMini UM870 Slim Mini PC. Please read this guide thoroughly before using the product to ensure proper functionality and longevity.



Figure 1: Front view of the MINISFORUM DeskMini UM870 Slim Mini PC.

2. PACKAGE CONTENTS

Verify that all items are present in your product package:

- 1x MINISFORUM UM870 Slim Mini PC
- 1x HDMI cable
- 1x US Power Adapter
- 1x User Manual

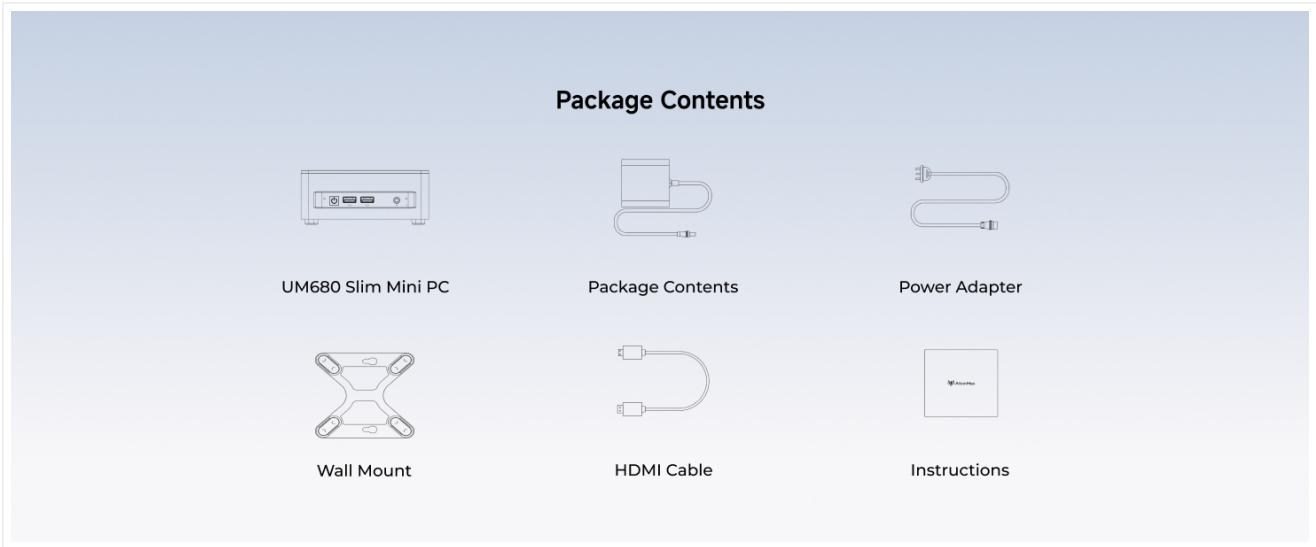


Figure 2: Illustration of typical package contents. Note: This image depicts contents for a similar model (UM680 Slim), but the included items are generally consistent.

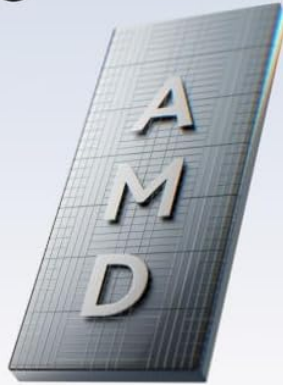
3. KEY FEATURES

- **Processor:** Equipped with the AMD Ryzen 7 8745H processor (8 Cores/16 Threads, up to 4.9GHz), designed for efficient handling of demanding computing tasks and multitasking.
- **Graphics:** Features AMD Radeon 780M Graphics, built on the RDNA 3 architecture, providing high-performance for gaming and content creation.
- **Display Output:** Supports triple display output with 8K@60Hz via HDMI 2.1 and USB4 Port, and 4K@60Hz via DisplayPort, enabling expanded workspaces.
- **Network Connectivity:** Includes a 2.5G RJ45 Ethernet port, WiFi 6E, and Bluetooth 5.2 for stable and high-speed network transmission.
- **Expandable Storage:** Offers 2x DDR5 SODIMM slots (upgradable to 48GB each) and 2x PCIe4.0 SSD slots (up to 2TB each), allowing for significant storage expansion.
- **Versatile Connectivity:** Provides 1x HDMI2.1, 1x USB4, 1x DP1.4, 2x USB3.2, 2x USB2.0, 1x 2.5G LAN, and 1x 3.5mm audio jack for various peripherals.

Advanced Features

Radeon 780M Graphics

Based on RDNA3, frequency up to 2600MHz



Equipped with USB4

Up to 40Gbps, support 8K@60Hz output
65-100W Power Delivery



Supports both wired and wireless

Wi-Fi 6E + BT5.3
2.5G WLAN



Dual channel DDR5

DDR5-5600MHz



PCIe4.0 SSD

2x M.2 2280(up to 4TB)



Figure 3: The Mini PC supporting a triple-monitor setup for enhanced productivity.

4. SETUP GUIDE

4.1 Unpacking and Placement

1. Carefully remove the Mini PC and all accessories from the packaging.
2. Place the Mini PC on a stable, flat surface with adequate ventilation. Ensure no vents are obstructed.

4.2 Connecting Peripherals

Refer to the port diagram below for connecting your devices.

Space saving design

Wall mount allows you to install it behind your monitor/TV and transform it into an all-in-one desktop PC



Compact PC

Wall mount included for a neat desktop



Figure 4: Front and rear port layout of the Mini PC.

- **Display:** Connect your monitor(s) to the HDMI, DisplayPort (DP), or USB4 ports using appropriate cables.
- **Keyboard & Mouse:** Connect your USB keyboard and mouse to any available USB ports (USB 3.2 Type-A or USB 2.0).
- **Network:** For a wired connection, connect an Ethernet cable to the 2.5G LAN port. For wireless, ensure the Wi-Fi antenna (if external) is connected or that the internal Wi-Fi is enabled.
- **Audio:** Connect speakers or headphones to the 3.5mm audio jack if needed.

- **Power:** Connect the power adapter to the DC 19V input port on the Mini PC, then plug the adapter into a power outlet.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

1. **Power On:** Press the power button located on the front of the Mini PC. The power indicator light will illuminate.
2. **Power Off:** To shut down the system, use the operating system's shutdown function. Alternatively, press and hold the power button for 4-5 seconds for a forced shutdown (use only when necessary).

5.2 Initial Setup (Operating System)

If your Mini PC comes without a pre-installed operating system, you will need to install one. Follow the instructions provided by your chosen operating system (e.g., Windows, Linux) for installation. Ensure all necessary drivers are installed for optimal performance.

6. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to clear dust from ventilation grilles. Do not use liquid cleaners directly on the device.
- **Software Updates:** Keep your operating system and drivers updated to ensure system stability and security. Visit the MINISFORUM official website for the latest driver downloads for your model.
- **Storage Management:** Periodically check your storage usage and delete unnecessary files to maintain system performance.

7. TROUBLESHOOTING

- **No Display:**
 - Ensure the monitor is powered on and the correct input source is selected.
 - Check that display cables (HDMI, DP, USB4) are securely connected to both the Mini PC and the monitor.
 - Try a different display cable or port.
- **No Power:**
 - Verify the power adapter is correctly connected to the Mini PC and a working power outlet.
 - Check if the power adapter's indicator light (if any) is on.
- **Network Connectivity Issues:**
 - For wired connections, ensure the Ethernet cable is properly connected and the router is functioning.
 - For Wi-Fi, check if Wi-Fi is enabled in the operating system and if you are connected to the correct network.
 - Restart your router/modem and the Mini PC.
- **System Slowdown:**
 - Close unnecessary applications running in the background.
 - Check for sufficient free storage space.
 - Ensure the Mini PC has adequate ventilation to prevent overheating.

8. SPECIFICATIONS

Feature	Detail
Brand	MINISFORUM
Model Number	DeskMini
Processor	AMD Ryzen 7 8745H (3.8 GHz)
RAM	16 GB DDR5 (5600 MHz)
Hard Drive	1 TB SSD (PCIe 4.0 x 4)
Graphics Coprocessor	AMD Radeon 780M (Graphics Frequency 2700MHz)
Max Screen Resolution	3840x2160 Pixels (8K via HDMI/USB4)
Wireless Type	802.11ax (WiFi 6E)
USB 2.0 Ports	2
USB 3.0 Ports	2
Operating System	OS (Not specified, typically Windows or Linux compatible)
Item Weight	3.41 pounds
Color	Silver
Date First Available	October 28, 2024
Customer Reviews	4.4 out of 5 stars (112 ratings)

9. WARRANTY AND SUPPORT

MINISFORUM products typically come with a manufacturer's warranty. For specific warranty terms, conditions, and duration, please refer to the warranty card included with your product or visit the official MINISFORUM website. For technical support, driver downloads, and frequently asked questions, please visit the MINISFORUM support page or contact their customer service directly.

Online Resources:

- MINISFORUM Official Website: www.minisforum.com
- Support Page: Refer to the official website for the dedicated support section.