

MINISFORUM X1 Lite-255

MINISFORUM X1 Lite-255 Mini PC Instruction Manual

Model: X1 Lite-255

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your MINISFORUM X1 Lite-255 Mini PC. Please read this guide thoroughly before using the device to ensure proper functionality and longevity.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your product packaging:

- 1x MINISFORUM X1 Lite-255 Mini PC
- 1x US Power Adapter
- 1x HDMI Cable
- 1x Wall Mount Bracket
- 1x M.2 to OCuLink Adapter
- Screws for installation
- User Manual (this document)

Video Description: This video demonstrates the unboxing process of the MINISFORUM X1 Lite-255 Mini PC and its initial power-on operation, showcasing the included accessories.

3. PRODUCT OVERVIEW

The MINISFORUM X1 Lite-255 is a compact and powerful mini PC designed for various computing tasks. Its small form factor allows for flexible placement, including behind a monitor using the included VESA mount.

3.1 External Features



Image Description: Front and side view of the MINISFORUM X1 Lite-255 Mini PC, highlighting its compact silver chassis and front-facing ports.

The device features a sleek, compact design with ventilation grilles on the sides and top for efficient cooling. The front panel includes essential ports for easy access:

- Power Button
- 2x USB 3.2 Type-A ports
- 1x 3.5mm Combo Jack (Audio/Microphone)

3.2 Rear Ports

10 Advantages

Massive Memory and Storage

Dual DDR5 + Dual M.2 slots
Expandable to 128GB RAM + 8TB SSD



AMD Radeon 780M Graphics

DIRECTX 12 Support
Frequency 2.6GHz



Light Compact and Sleek

130×126×47.2mm

0.67Kg



Blazing Network Speeds

2.5GbE | WiFi 6E

WIFI 6E



Renewed Power Inside

AMD Ryzen 7 255

8 Cores / 16 Threads
Unleashing 65W of Power



Super USB4 Port

40Gbps & 65-100W PD-IN & 15W PD OUT & Alt DP



Triple Display for Seamless Experience

HDMI | DP | USB4
Triple 4K | Single 8K



eGPU Expansion Plug and Play

OCuLink Supported



Cool and Quiet

65W TDP | PCM
Large-diameter Quiet Fan



Born for Every Scenario

Office | Content Creation
Entertainment



Image Description: Rear view of the MINISFORUM X1 Lite-255 Mini PC, showing the array of connectivity ports. The rear panel provides a comprehensive set of connectivity options:

- 1x DC 19V Power Input
- 2x 2.5G LAN (RJ45) ports
- 1x OCuLink port (for external GPU expansion)
- 1x HDMI 2.1 port
- 1x DisplayPort 1.4
- 1x USB4 port (Full-function, with PD-IN/OUT)

- 2x USB 2.0 ports
- 1x Clear CMOS button
- Kensington Lock Slot

Video Description: This video provides a detailed overview of the MINISFORUM X1 Lite-255 Mini PC's features and design, including its compact size and port layout.

4. SETUP GUIDE

4.1 Initial Connection

1. Connect your monitor(s) to the HDMI, DisplayPort, or USB4 ports using appropriate cables.
2. Connect your keyboard and mouse to the available USB ports.
3. For wired network access, connect an Ethernet cable to one of the 2.5G LAN ports.
4. Connect the power adapter to the DC 19V input port on the rear of the Mini PC, then plug the power adapter into a power outlet.

4.2 Power On

Press the power button located on the front panel of the Mini PC. The power indicator light will illuminate, and the system will begin to boot.

5. HARDWARE CONFIGURATION AND UPGRADES

The MINISFORUM X1 Lite-255 Mini PC offers options for memory and storage expansion.

5.1 Accessing Internal Components

To access the internal components for upgrades, gently remove the bottom panel of the Mini PC. This typically involves unscrewing the feet or a designated panel and carefully prying it open. Refer to the provided video for a visual guide on accessing the internal components.



Image Description: An internal view of the Mini PC, clearly showing the two SO-DIMM slots for DDR5 RAM and the M.2 PCIe 4.0 SSD slots.

Video Description: This video demonstrates the teardown process of a similar MINISFORUM M1 Pro model, showing how to access and upgrade internal components like RAM and SSDs. The process is generally similar for the X1 Lite-255.

5.2 Memory (RAM)

The X1 Lite-255 features dual SO-DIMM slots, supporting DDR5 5600MHz RAM. It can be expanded up to 128GB (2x 64GB modules).

5.3 Storage (SSD)

The Mini PC includes dual M.2 2280 PCIe 4.0x4 slots, supporting up to 4TB per SSD for a total of 8TB. This allows for high-speed data processing and rapid file transfers.

5.4 OCuLink Expansion

The OCuLink port provides a high-speed PCIe 4.0 x4 (64Gbps) connection for external GPU expansion. This allows users to connect a desktop graphics card via an OCuLink adapter and external enclosure (sold separately) to enhance gaming or AI capabilities. **Note:** The OCuLink port utilizes one of the M.2 2280 PCIe 4.0 SSD slots and is not hot-swappable. Ensure the PC is turned off before connecting or disconnecting OCuLink devices.



Image Description: The Mini PC connected to an external graphics card enclosure via the OCuLink port, demonstrating its expandability.

Video Description: This video highlights the accessories included with the X1 Lite-255 and demonstrates the functionality of its full-function USB4 port.

6. OPERATING SYSTEM AND BIOS/UEFI SETTINGS

6.1 Pre-installed Operating System

The MINISFORUM X1 Lite-255 typically comes with a pre-installed operating system (e.g., Windows). Follow the on-screen instructions for initial setup.

6.2 Accessing BIOS/UEFI

To access the BIOS/UEFI settings, power on the Mini PC and repeatedly press the **DEL** or **F2** key during the boot process. This interface allows you to configure various system settings, including:

- **Main:** System date, time, and basic hardware information.

- **Advanced:** CPU configuration, onboard device settings (audio, PCIe), power and performance profiles (e.g., Balance, Performance), and virtualization technology.
- **Security:** Set administrator/user passwords and configure Secure Boot.
- **Boot:** Adjust boot order priorities (NVMe, Hard Disk, USB, etc.) and Quiet Boot options.

7. CONNECTIVITY

7.1 Network

The X1 Lite-255 offers robust network connectivity:

- **Wired:** 2x 2.5Gbps Ethernet ports for ultra-fast wired networking.
- **Wireless:** Wi-Fi 6E for seamless and low-latency wireless connections.
- **Bluetooth:** Bluetooth 5.2 for connecting wireless peripherals.

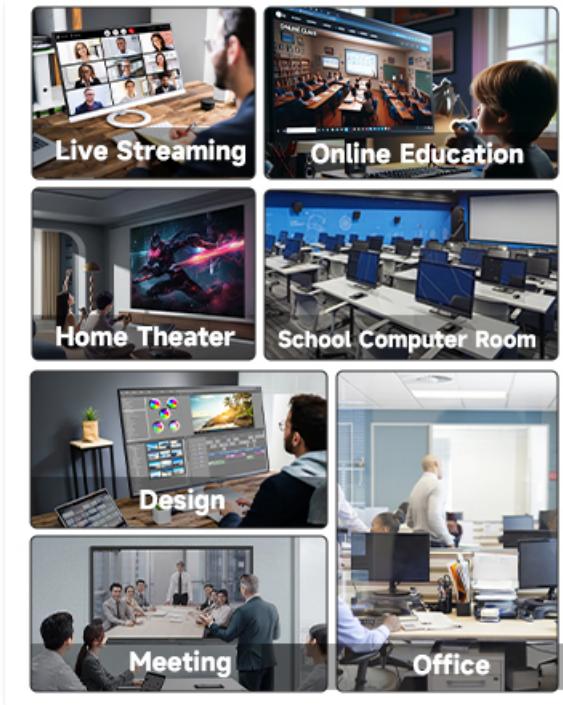


Image Description: Close-up of the rear panel showing the 2.5G LAN ports, highlighting the advanced network capabilities.

7.2 Display Output

The Mini PC supports triple display output for enhanced productivity and immersive entertainment:

- 1x HDMI 2.1 (Up to 8K@60Hz / 4K@120Hz)
- 1x DisplayPort 1.4 (Up to 8K@60Hz / 4K@144Hz)
- 1x USB4 (Up to 8K@60Hz / 4K@144Hz)

BEST CHOICE FOR GIFT



Image Description: A setup showing the Mini PC connected to three external monitors, demonstrating its triple display capability.

7.3 USB4 Port Functionality

The full-function USB4 port delivers 40Gbps transfer speeds and supports 65-100W Power Delivery (PD-IN) to charge the host device, while also providing 15W power output to peripherals. This versatile port can also be used for video output.

8. PERFORMANCE AND COOLING

The MINISFORUM X1 Lite-255 is equipped with an AMD Ryzen 7 255 processor (8 cores, 16 threads, up to 4.9GHz) and AMD Radeon 780M graphics (12 cores, 2600MHz), providing strong performance for multitasking, office work, content creation, and light gaming.

8.1 Efficient Cooling System

The Mini PC incorporates an efficient cooling system with Phase-Change Material (PCM) and an upgraded turbo fan (25% increased airflow) to ensure stable 65W TDP performance and quiet operation even under heavy loads. Jet Direct Airflow design minimizes obstruction for optimal heat dissipation.

Enjoy UHD Home Theater



Image Description: A diagram illustrating the internal cooling system of the Mini PC, showing airflow and heat pipe components.

9. MAINTENANCE

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

- **Cleaning:** Periodically use compressed air to clear dust from the ventilation grilles to maintain efficient cooling.
- **Software Updates:** Keep your operating system and drivers updated to ensure system stability and security.
- **Physical Handling:** Handle the Mini PC with care to avoid physical damage.

10. TROUBLESHOOTING

If you encounter issues with your Mini PC, try the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Try a different outlet if necessary.
- **No Display:** Verify that the monitor is powered on and correctly connected to the Mini PC. Try different display cables or ports.
- **Peripheral Issues:** Ensure USB devices (keyboard, mouse) are properly connected. Try connecting them to different USB ports.
- **System Unresponsive:** Press and hold the power button for 5-10 seconds to force a shutdown, then restart the system.
- **Network Connectivity:** Check Ethernet cable connections or Wi-Fi settings. Restart your router if other devices are also affected.

For persistent issues, consult the MINISFORUM support website or contact customer service.

11. SPECIFICATIONS

Feature	Specification
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Processor	AMD Ryzen 7 255 (8C/16T, up to 4.9GHz)
Graphics	AMD Radeon 780M (12 core, 2600MHz)
RAM	32GB DDR5 5600MHz (Dual SO-DIMM, expandable to 128GB)
Storage	1TB M.2 2280 PCIe 4.0 SSD (Dual M.2 slots, up to 8TB total)
Video Output	1x HDMI 2.1, 1x DisplayPort 1.4, 1x USB4 (Triple Display Support)
USB Ports	2x USB 3.2 Type-A (Front), 2x USB 2.0 (Rear), 1x USB4 (Rear)
Network	2x 2.5G LAN, Wi-Fi 6E, Bluetooth 5.2
Special Ports	1x OCuLink (for external GPU)
Dimensions	130 x 126 x 47.2 mm (approx. 5.1 x 5.0 x 1.9 inches)
Weight	Approx. 0.67 kg (1.48 lbs)
Operating System	OS (Pre-installed)

12. WARRANTY AND SUPPORT

MINISFORUM products come with a standard manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please visit the official MINISFORUM website or contact their customer support team. Keep your purchase receipt for warranty claims.

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