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BOSGAME M3

BOSGAME M3 Mini PC User Manual

Model: M3 | Featuring Intel Ultra 7 155H Processor

1. INTRODUCTION

Thank you for choosing the BOSGAME M3 Mini PC. This compact and powerful computer is designed to meet a wide range of computing needs, from everyday tasks to demanding applications. Equipped with the Intel Ultra 7 155H processor, 32GB DDR5 RAM, and a 1TB NVMe SSD, it offers exceptional performance and efficiency. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device.

2. SAFETY INFORMATION

Please read and follow all safety instructions carefully to prevent damage to the device or injury to yourself. Keep the device away from water, fire, and high temperatures. Do not attempt to disassemble or repair the device yourself. Use only the provided power adapter and accessories. Ensure proper ventilation to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- BOSGAME M3 Mini PC
- Power Cable
- Power Adapter
- VESA Mount with Screws
- HDMI Cable
- User Manual

BOSGAME M3

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ACCESSORY SHOWCASE



Figure 3.1: Included accessories with the BOSGAME M3 Mini PC.

4. PRODUCT OVERVIEW

4.1 Front Panel

- **Power Button:** Press to turn the device on/off.
- **USB 3.2 Gen2 Ports (x2):** For high-speed data transfer.
- **Thunderbolt 4 (USB 4) Port:** Supports 8K 60Hz display output and PD3.0 power delivery.
- **3.5mm Audio Jack:** For headphones or speakers.

4.2 Rear Panel

- **DC Jack:** Connect the power adapter here.
- **Dual 2.5GbE LAN Ports:** For wired network connectivity.
- **HDMI 2.1 Port:** Supports 8K 60Hz display output.
- **DisplayPort 2.1 (DP) Port:** Supports 8K 60Hz display output.
- **USB 3.2 Gen2 Ports (x2):** For high-speed data transfer.

- **USB 2.0 Port (x1):** For peripherals like keyboard/mouse.

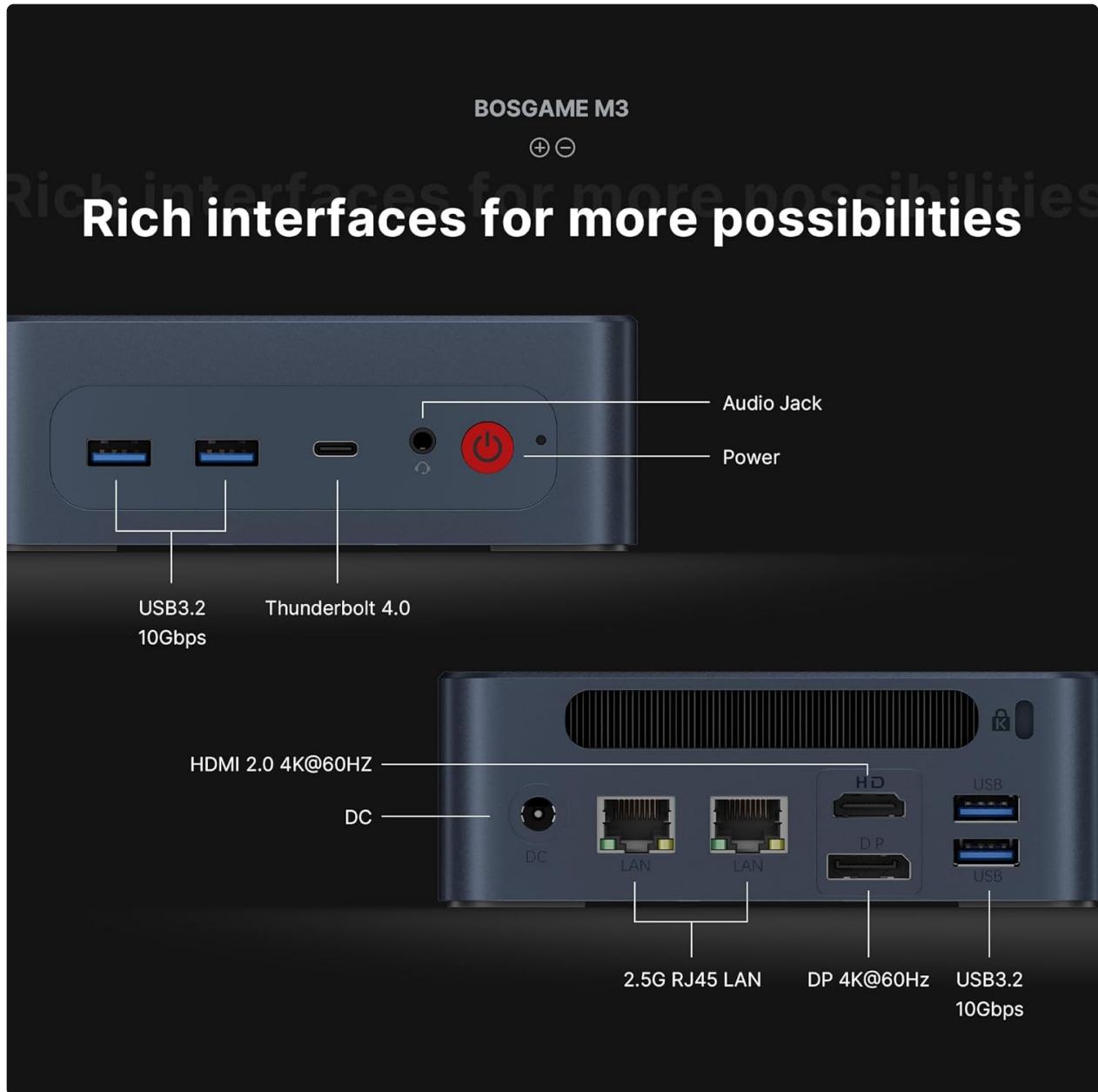


Figure 4.1: Front and Rear Panel Ports.

4.3 Key Features

- **Processor:** Intel Core Ultra 7 155H (16 Cores/22 Threads, up to 4.8GHz)
- **Graphics:** Intel Arc Graphics (2.25GHz, 8 Xe-Cores)
- **RAM:** 32GB DDR5 (Dual Channel, expandable up to 96GB)
- **Storage:** 1TB NVMe M.2 2280 SSD (Dual M.2 2280 slots, supports up to 8TB)
- **Wireless:** WiFi 6E, Bluetooth 5.2
- **Display Output:** HDMI 2.1, DisplayPort 2.1, Thunderbolt 4 (supports Triple 8K 60Hz displays)

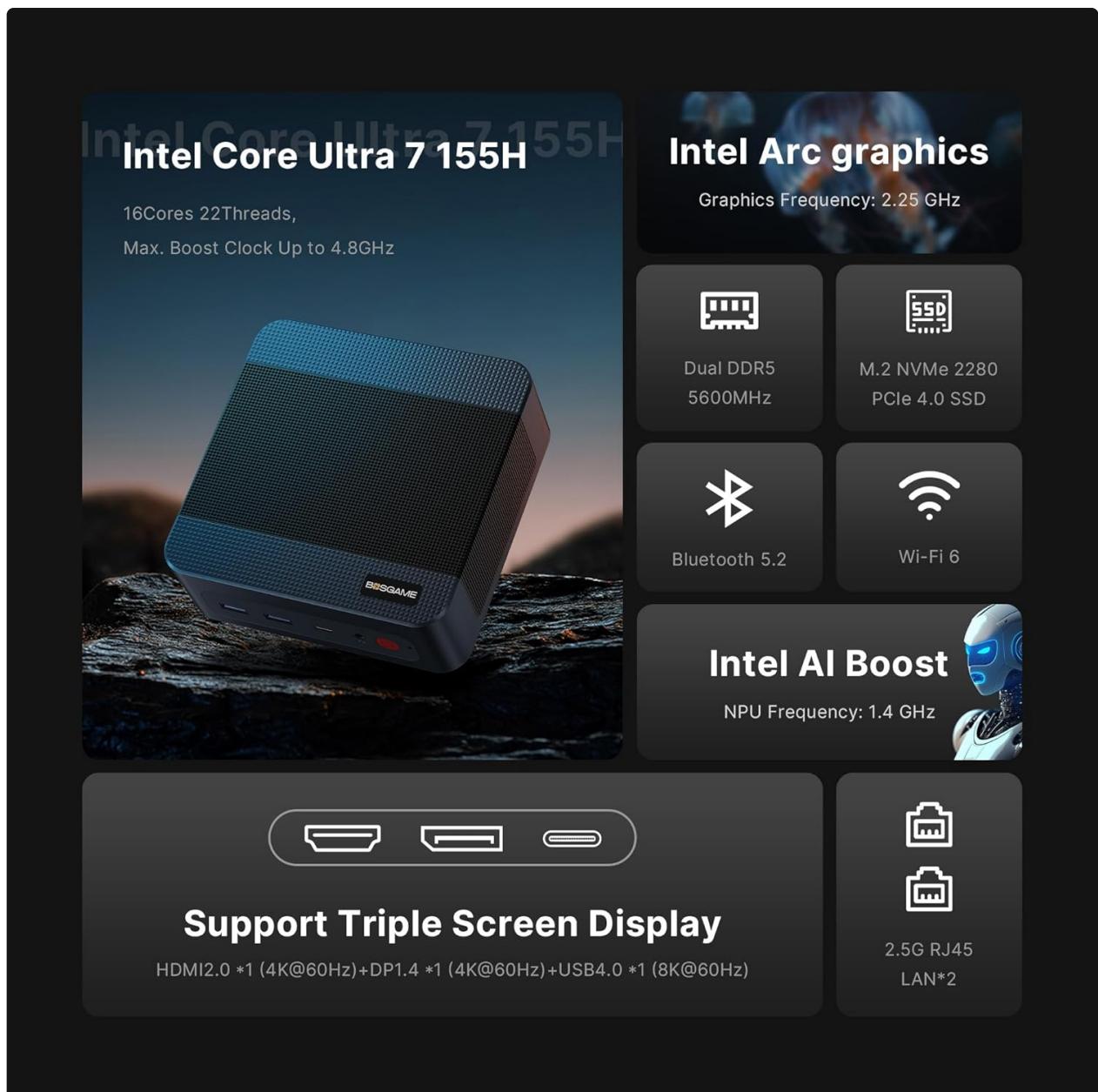


Figure 4.2: BOSGAME M3 Mini PC Key Features.

5. SETUP

5.1 Connecting Peripherals

1. Connect your monitor(s) to the HDMI, DisplayPort, or Thunderbolt 4 ports using appropriate cables.
2. Connect your keyboard and mouse to the available USB ports.
3. Connect any other desired peripherals (e.g., external storage, audio devices).



Figure 5.1: Triple Display Setup.

5.2 Powering On

1. Connect the power adapter to the DC jack on the rear panel of the Mini PC.
2. Plug the power cable into a power outlet.
3. Press the power button on the front panel to turn on the device.



Figure 5.2: Powering the Mini PC via USB-C PD.

5.3 Initial Operating System Setup

The BOSGAME M3 Mini PC supports various operating systems including Windows and Linux distributions. Follow the on-screen instructions to complete the initial OS setup. Ensure you have an active internet connection for updates and driver installations.

6. OPERATING INSTRUCTIONS

6.1 Basic Usage

Once the operating system is set up, you can use your BOSGAME M3 Mini PC for a wide range of tasks. Its powerful Intel Ultra 7 155H processor and Intel Arc graphics ensure smooth performance for productivity, entertainment, and creative work.

6.2 Connecting to Displays

The Mini PC supports up to three independent displays simultaneously via its HDMI 2.1, DisplayPort 2.1, and Thunderbolt 4 ports. This allows for an expansive workspace for multitasking or immersive viewing experiences.



Figure 6.1: 4K UHD Display Capability.

6.3 Network Connectivity

- **Wi-Fi 6E:** Connect to wireless networks for high-speed internet access.
- **Bluetooth 5.2:** Pair with Bluetooth-enabled devices such as headphones, keyboards, and mice.
- **Dual 2.5GbE LAN:** For stable and fast wired network connections.

6.4 Storage Expansion

The BOSGAME M3 features two NVMe M.2 2280 SSD slots, supporting up to 8TB of storage (2x4TB). This allows for significant storage expansion if needed.

7. SPECIFICATIONS

Feature	Specification
Processor	Intel Core Ultra 7 155H (3.8GHz Base, 4.8GHz Max Turbo, 16C/22T)
Graphics	Intel Arc Graphics (2.25GHz, 8 Xe-Cores)
RAM	32GB DDR5 (Dual Channel, 5600MHz)
Storage	1TB NVMe M.2 2280 SSD (PCIe 4.0)
Storage Slots	2x NVMe M.2 2280 SSD slots (supports up to 8TB total)
Wireless Connectivity	WiFi 6E, Bluetooth 5.2
Wired LAN	Dual 2.5GbE LAN
Display Outputs	1x HDMI 2.1, 1x DisplayPort 2.1, 1x Thunderbolt 4 (USB 4)
Max Resolution	8K 60Hz (Thunderbolt 4, HDMI, DP)
USB Ports	3x USB 3.2, 1x USB 2.0, 1x Thunderbolt 4 (USB 4)
Audio	3.5mm Audio Jack
Operating System	Supports Linux and Windows
Dimensions	5.12 x 5.08 x 1.81 inches (130 x 129 x 46mm)
Item Weight	2.66 pounds

Product Specification

Dimension	Network		
5.12*5.08*1.81 in(130*129*46mm)	Wi-Fi 6 Bluetooth: 5.2		
CPU	Adapter		
Intel Core Ultra 7 Processor 155H	19V-6.3A Certification		
Max Turbo Frequency 4.8GHz(16C/22T) 24MB Smart Cache	Input: 100-240V AC, 50/60Hz , Output: 19V 6.3A		
GPU	NPU		
Intel Arc Graphics 2.25 GHz	Intel AI Boost 1.4 GHz		
Interface			
USB3.2 Gen2 10Gbps*4	Thunderbolt 4*1	2.5G RJ45 LAN *2	HDMI2.0(4K@60Hz)*1
DP1.4(4K@60Hz)*1	3.5mm Combo Jack *1	5.5*2.5mm DC Jack*1	
Internal Slot	Additional function		
M.2 NVME PCIe 4.0x4 2280 SSD	WOL AUTO POWER ON		

Figure 7.1: Detailed Product Specifications.

8. PERFORMANCE OVERVIEW

The Intel Core Ultra 7 155H processor with integrated Intel Arc graphics delivers robust performance for various tasks. The Intel AI Boost NPU further enhances AI-driven applications.



Figure 8.1: Intel Core Ultra 7 155H Processor Details.

The Mini PC is capable of handling demanding applications and even some gaming. Below are video demonstrations of its performance in various scenarios.

8.1 Gaming Performance (CS:GO)

Video 8.1: Demonstration of BOSGAME Mini PC Intel i7 12700H GPU Test in CS:GO. This video shows gameplay performance with frame rate and system metrics.

8.2 Software Benchmark (Cinebench R23)

Video 8.2: BOSGAME Intel i7 Mini PC 12700H Software R23 Test Video. This video showcases the Cinebench R23 multi-core performance of the Mini PC.

9. MAINTENANCE

9.1 Cleaning

Regularly clean the exterior of the Mini PC with a soft, dry cloth. Avoid using liquid cleaners directly on the device. Ensure ventilation vents are clear of dust and debris.

9.2 Heat Dissipation

The BOSGAME M3 is designed with a highly efficient heat dissipation system to maintain optimal performance. Ensure the Mini PC is placed in a well-ventilated area and that the vents are not obstructed.



Figure 9.1: Highly Efficient Heat Dissipation System.

10. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to both the device and the power outlet. Try a different outlet.
- **No Display:** Check all display cable connections. Ensure the monitor is set to the correct input source. Try a different display cable or monitor.
- **Network Issues:** For Wi-Fi, ensure drivers are installed and the network is selected correctly. For wired LAN, check the Ethernet cable and router connection.
- **Slow Performance:** Close unnecessary applications. Check for background updates. Ensure adequate ventilation.

11. WARRANTY AND SUPPORT

The BOSGAME M3 Mini PC comes with a 3-year professional factory support. All products have FCC, ROHS, and CE certifications. For any technical assistance or inquiries, please contact our 24/7 online customer service.

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