BOSGAME P3

BOSGAME P3 Mini PC User Manual

Model: AMD Ryzen 7 6800H

1. INTRODUCTION

The BOSGAME P3 Mini PC is a compact and powerful desktop computer designed for various applications, including office work, home entertainment, and light gaming. Equipped with an AMD Ryzen 7 6800H processor, 24GB of DDR5 RAM, and a 1TB PCIe SSD, it offers efficient performance in a small form factor. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your Mini PC.

2. WHAT'S IN THE BOX

Carefully unpack your BOSGAME P3 Mini PC and ensure all items are present:

- 1x BOSGAME P3 AMD Ryzen 7 6800H Mini PC
- 1x HDMI Cable
- 1x Power Adapter
- 1x User Guide (this document)
- 1x VESA Mount with Screws

Figure 2.1: Included accessories with the BOSGAME P3 Mini PC.

3. PRODUCT OVERVIEW

3.1. External Ports and Connectors

The BOSGAME P3 Mini PC features a variety of ports for connectivity and expansion:

Figure 3.1: Front and rear ports of the Mini PC.

- **Front Panel:** Power button, 2x USB 3.2 Gen2 (10Gbps) ports, 1x USB-C (full-featured, supports 8K@60Hz video output and 10Gbps data transmission), 1x 3.5mm Audio Jack.
- **Rear Panel:** DC power input, 2x 2.5GbE LAN ports, 2x HDMI 2.0 (4K@60Hz), 1x DisplayPort (4K@60Hz), 1x USB 3.2 Gen2 (10Gbps) port, 1x USB 2.0 (480Mbps) port.

3.2. Internal Components

The Mini PC is equipped with high-performance internal hardware:

Figure 3.2: Internal layout with RAM and SSD.

- **Processor:** AMD Ryzen 7 6800H (8 Cores, 16 Threads, Max Boost Clock up to 4.7GHz)
- **Graphics:** AMD Radeon 680M (Integrated, 12 Cores, 2200MHz)
- **RAM:** 24GB DDR5 SODIMM (expandable up to 64GB)
- **Storage:** 1TB M.2 2280 NVMe PCIe 4.0 SSD (supports external M.2 PCIe 4.0 slot expansion up to 2TB, not included)
- **Wireless:** Wi-Fi 6E (802.11ax), Bluetooth 5.2

4. SETUP

4.1. Connecting Peripherals

1. **Connect Display:** Use the provided HDMI cable to connect your monitor to one of the HDMI ports on the rear panel. Alternatively, use the DisplayPort or the full-featured USB-C port for video output. The Mini PC supports up to three displays simultaneously.

2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any available USB ports on the front or rear panel.

3. **Connect to Network:** For a wired connection, connect an Ethernet cable from your router to one of the 2.5GbE LAN ports on the rear panel. For wireless, ensure your Wi-Fi network is available during initial setup.

4. **Connect Power:** Plug the power adapter into the DC power input on the rear panel, then plug the adapter into a power outlet.

4.2. Powering On and Initial Setup

1. Press the power button on the front panel to turn on the Mini PC.

2. Follow the on-screen instructions to complete the initial setup of your operating system (Windows 11 or compatible Linux/Ubuntu). This typically involves selecting language, region, network settings, and creating a user account.

4.3. VESA Mount Installation

The included VESA mount allows you to attach the Mini PC to the back of a compatible monitor or to a wall, saving desk space.

1. Attach the VESA mount bracket to the back of your monitor using the provided screws, aligning with the VESA holes.

2. Slide the Mini PC onto the mounted bracket until it securely locks into place.

5. OPERATING

5.1. Multi-Screen Display

The BOSGAME P3 supports triple display output, allowing for enhanced productivity or immersive entertainment setups. Connect up to three monitors using a combination of the HDMI, DisplayPort, and USB-C video output ports.
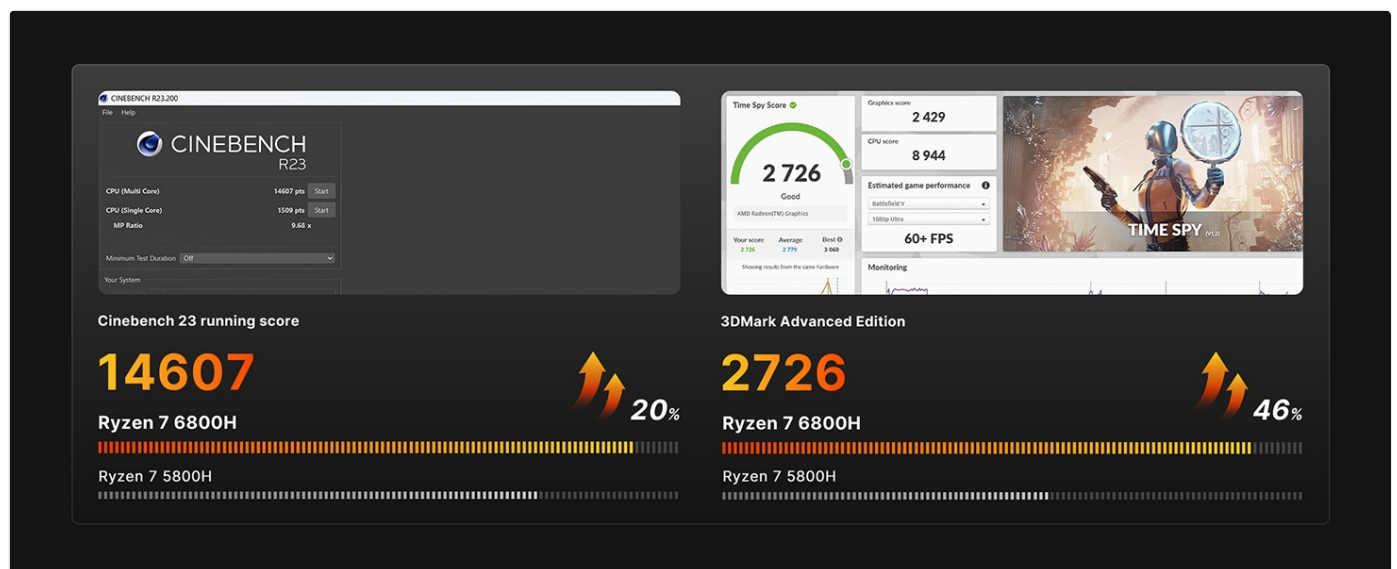

Figure 5.1: Triple display setup capability.

5.2. High-Speed Connectivity

Leverage the advanced connectivity options for fast and stable data transfers:

- **Dual 2.5GbE LAN:** Provides high-speed wired network connections, ideal for demanding network tasks or server applications.
- **Wi-Fi 6E:** Offers wireless speeds up to 2.4Gbps for seamless internet browsing, streaming, and online gaming.
- **Bluetooth 5.2:** Connect wireless peripherals such as keyboards, mice, and headphones.

- **USB4 (Full-featured USB-C):** This port supports PD 3.0 power supply, 8K@60Hz video output, and 10Gbps data transmission, making it versatile for various high-bandwidth devices.
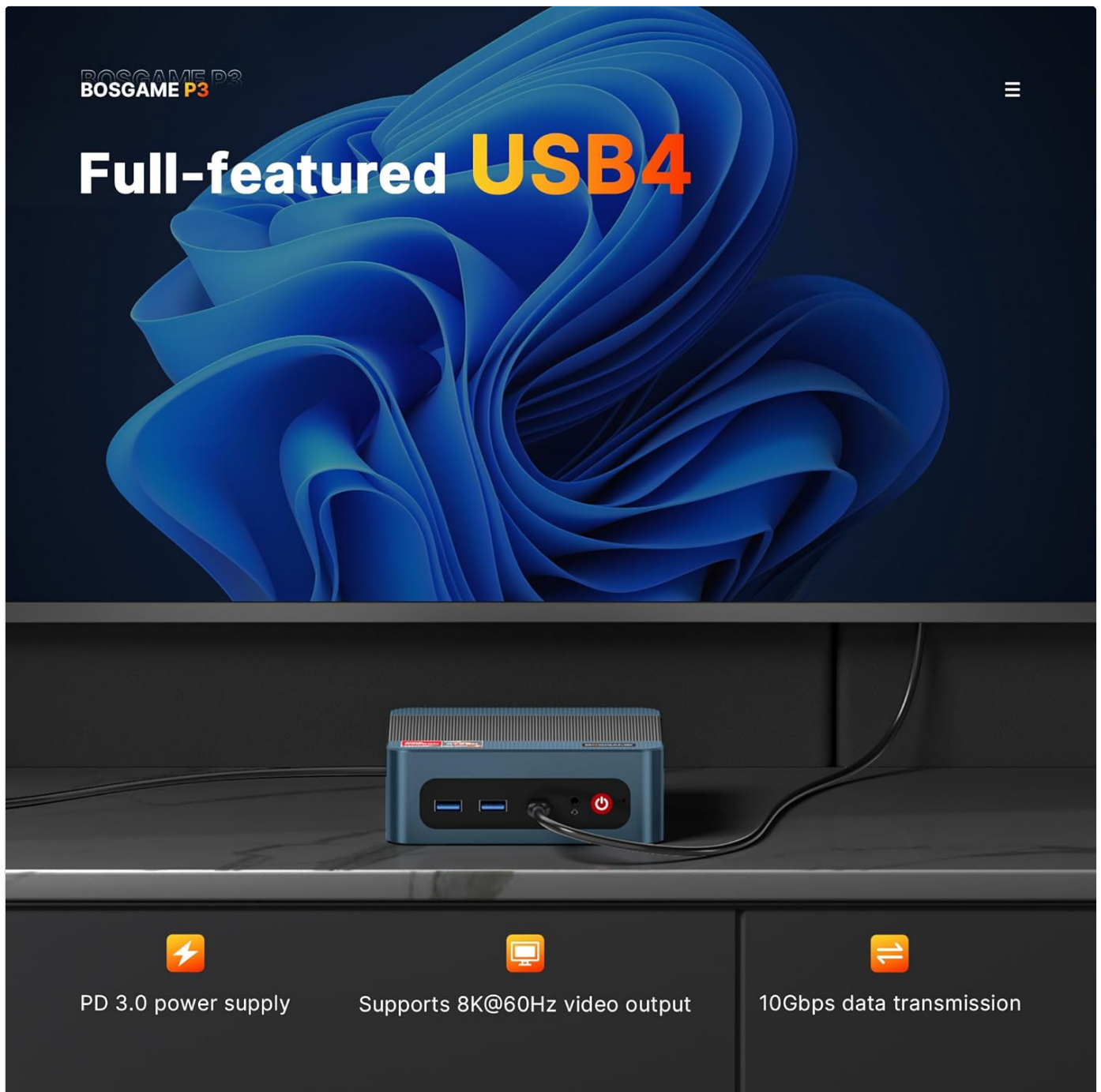

Figure 5.2: USB4 port functionality.

6. Maintenance and Upgrades

6.1. Adding Storage

The BOSGAME P3 Mini PC allows for additional storage expansion:

- **2.5-inch SATA SSD/HDD:** The device supports adding a 2.5-inch SATA solid-state drive (SSD) or hard disk drive (HDD) for increased storage capacity. This requires opening the bottom cover and connecting the drive using the provided SATA cable (if included, otherwise purchased separately).
- **M.2 PCIe 4.0 SSD Expansion:** An external M.2 PCIe 4.0 slot is available for expansion up to 2TB (drive not included).

6.2. RAM Upgrade

The 24GB DDR5 RAM can be expanded up to 64GB. To upgrade, open the bottom cover and replace or add SODIMM modules in the available slots. Ensure compatibility with DDR5 SODIMM memory.

6.3. Cleaning

Regular cleaning helps maintain optimal performance and longevity. Use a soft, dry cloth to wipe the exterior. For internal cleaning, especially the fan and vents, use compressed air. Ensure the device is powered off and unplugged before cleaning.

7. TROUBLESHOOTING

If you encounter issues with your BOSGAME P3 Mini PC, refer to the following common 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 or power adapter if available.
- **No Display:** Verify that the HDMI, DisplayPort, or USB-C video cables are correctly connected to both the Mini PC and the monitor. Check the monitor's input source settings.
- **No Internet Connection:** For wired connections, check the Ethernet cable and router status. For Wi-Fi, ensure the Wi-Fi adapter is enabled and connected to the correct network.
- **Slow Performance:** Close unnecessary applications. Check for background updates. Consider upgrading RAM or ensuring sufficient free storage space.
- **Overheating:** Ensure the Mini PC's vents are not obstructed. Clean any dust accumulation.

For further assistance, please contact BOSGAME customer support.

8. SPECIFICATIONS

Feature	Specification
Processor	AMD Ryzen 7 6800H (8 Cores, 16 Threads, 4.7 GHz Max Boost)
Graphics	AMD Radeon 680M (Integrated, 12 Cores, 2200MHz)
RAM	24 GB DDR5 SODIMM (4800 MHz), expandable to 64 GB
Storage	1 TB M.2 2280 NVMe PCIe 4.0 SSD (Dual Slot up to 4TB total)
Operating System	Windows 11 OS, Compatible with Linux and Ubuntu
Video Output	2x HDMI 2.0 (4K@60Hz), 1x DisplayPort (4K@60Hz), 1x USB-C (8K@60Hz) - Triple Display Support
LAN	2x 2.5GbE RJ45 ports
Wireless Connectivity	Wi-Fi 6E (802.11ax), Bluetooth 5.2
USB Ports	3x USB 3.2 Gen2 (10Gbps), 1x USB 2.0 (480Mbps), 1x USB-C (Full-featured)
Audio	1x 3.5mm Audio Jack
Dimensions (LxWxH)	4.96 x 4.4 x 1.6 inches

Feature	Specification
Weight	14.6 ounces

9. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video 9.1: An overview of the BOSGAME P3 Lite Mini Gaming PC, highlighting its features and design.

10. WARRANTY AND SUPPORT

BOSGAME products are covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official BOSGAME website. For technical support, troubleshooting assistance, or service inquiries, please contact BOSGAME customer support through their official channels.

Online Support: Visit the BOSGAME Store on Amazon for product information and support resources.