

BOSGAME P4

BOSGAME P4 Mini PC User Manual

Model: P4

1. INTRODUCTION

Thank you for choosing the BOSGAME P4 Mini PC. This compact and powerful desktop computer is designed for a wide range of tasks, from everyday use to demanding business applications. Featuring an AMD Ryzen 7 5825U processor, 32GB DDR4 RAM, and a 1TB M.2 NVMe SSD, it offers robust performance and efficient multitasking. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new device.

2. WHAT'S IN THE BOX

Upon unboxing your BOSGAME P4 Mini PC, you should find the following items:

- 1 × BOSGAME P4 Plus Mini PC
- 1 × HDMI Cable
- 1 × Power Adapter
- 1 × VESA Mount & Screws
- 1 × User Manual (this document)



- ① P4 Mini PC
- ② Power adapter
- ③ HDMI cable
- ④ VESA mount with screws
- ⑤ User manual

Figure 2.1: Contents of the BOSGAME P4 Mini PC package.

This image displays the BOSGAME P4 Mini PC along with its standard accessories: a power adapter, an HDMI cable for display connection, a VESA mount with screws for flexible placement, and the user manual.

3. PRODUCT OVERVIEW

3.1. Key Features

- **Processor:** AMD Ryzen 7 5825U (8 Cores, 16 Threads, up to 4.5GHz)
- **Graphics:** AMD Radeon Graphics (8 GPU cores, 2000MHz)
- **Memory:** 32GB DDR4 3200MHz SODIMM (Dual Channel, expandable up to 64GB)
- **Storage:** 1TB M.2 NVMe PCIe 4.0x4 SSD (expandable with 2.5" SSD/HDD)
- **Operating System:** Windows 11 Pro
- **Networking:** Dual 2.5G LAN, Wi-Fi 6E, Bluetooth 5.2
- **Display Output:** Triple Display support via HDMI, DisplayPort (DP), and USB-C (4K@60Hz)



Figure 3.1: Overview of BOSGAME P4 Mini PC's core specifications and connectivity.

This diagram highlights the main technical specifications and connectivity options of the BOSGAME P4 Mini PC, including its processor, memory, storage, and wireless capabilities.

3.2. Ports and Interfaces

The BOSGAME P4 Mini PC offers a comprehensive set of ports for various peripherals and displays:

- **Front Ports:** USB 3.2 Gen1 (x2), USB-C (Full-featured, PD 3.0, 4K@60Hz video, 10Gbps data), Audio Jack, Power Button
- **Rear Ports:** USB 2.0 (x2), HDMI 2.0 (4K@60Hz), DisplayPort (4K@60Hz), Dual 2.5G RJ45 LAN, DC Power Input



Rich interfaces for more possibilities

Equipped with rich interfaces, it is easy to expand various scenarios and meet daily applications.



Figure 3.2: Front and rear interfaces of the BOSGAME P4 Mini PC.

This image illustrates the various input/output ports available on the front and rear panels of the mini PC, detailing their types and locations for easy identification and connection.

4. SETUP

4.1. Initial Connection

1. Place the Mini PC on a stable surface.
2. Connect your monitor(s) using the HDMI, DisplayPort, or USB-C ports.
3. Connect your keyboard and mouse to the available USB ports.
4. Connect the power adapter to the DC input port on the Mini PC and then to a power outlet.
5. Press the power button on the front of the Mini PC to turn it on.

Video 4.1: Step-by-step guide on unboxing and initial setup of the BOSGAME P4 Mini PC, including connecting peripherals and powering on the device.

This video demonstrates the unboxing process and how to connect the essential peripherals like the monitor, keyboard, mouse, and power supply to get your Mini PC ready for its first use.

4.2. Windows 11 Pro First-Time Setup

For the fastest and cleanest first-time setup of Windows 11 Pro without immediate internet connection requirements:

1. During the initial Windows setup, when prompted to connect to a network, **do not connect to Wi-Fi yet**
2. Press **Shift** + **F10** on your keyboard to open a Command Prompt window.
3. In the Command Prompt, type `oobe\bypassnro` and press **Enter**.
4. The PC will restart. After restarting, you will be able to proceed with the Windows setup without an internet connection, allowing you to create a local user account.
5. Once the setup is complete, you can connect to the internet and update drivers as needed.

Video 4.2: Instructions on how to access and configure BIOS settings for features like Auto Power On, Wake on LAN, and UMA Frame Buffer Size.

This video provides a guide on navigating the BIOS settings to configure advanced features such as automatic power-on, Wake on LAN, and adjusting the UMA Frame Buffer Size for graphics memory allocation.

4.3. Triple Display Setup

The BOSGAME P4 Mini PC supports up to three independent 4K displays simultaneously using its HDMI, DisplayPort, and USB-C outputs. This allows for enhanced productivity and immersive experiences.

1. Connect the first monitor to the DisplayPort (DP) output.
2. Connect the second monitor to the HDMI output.
3. Connect the third monitor to the USB-C output (ensure your USB-C monitor supports video input).
4. Once connected, Windows will automatically detect the displays. You can configure display settings (extend, duplicate, or single display) via **Settings > System > Display**.



Figure 4.1: Triple display setup with the BOSGAME P4 Mini PC.

This image shows the BOSGAME P4 Mini PC connected to three monitors, illustrating its capability to support a triple display setup for multitasking and expanded workspace.

Video 4.3: Demonstration of connecting multiple monitors to the BOSGAME P4 Mini PC for a triple display setup.

This video visually guides you through the process of connecting three monitors to your Mini PC, showcasing the different port types used for each display.

5. OPERATING YOUR MINI PC

5.1. Power On/Off

- **To Power On:** Press the red power button on the front panel.
- **To Power Off:** Click the Start menu in Windows, then select Power > Shut down. Alternatively, press and hold the power button for 5 seconds for a forced shutdown (not recommended for regular use).

5.2. BIOS Setup

The BIOS (Basic Input/Output System) allows you to configure fundamental system settings. To enter the BIOS setup:

1. Turn on the Mini PC.
2. Repeatedly press the **Delete** key during startup until the BIOS setup utility appears.

Within the BIOS, you can adjust settings such as:

- **Auto Power On:** Navigate to **Advanced > Auto Power On** to enable or disable the system powering on automatically.
- **Wake On LAN:** In **Advanced > Wake On LAN**, enable this feature to wake the PC remotely over a network connection.
- **UMA Frame Buffer Size:** Adjust the dedicated graphics memory in **Advanced > UMA Frame Buffer Size**. Increasing this can improve graphics performance for demanding tasks.
- **RTC Wake Settings:** Configure scheduled wake-up times in **Advanced > S5 RTC Wake Settings**.

Note: The BIOS is locked by default, and overclocking is not recommended as it may damage the computer. Please be aware.

6. MAINTENANCE

6.1. Cleaning

- Regularly clean the exterior of the Mini PC with a soft, dry cloth.
- Use compressed air to clear dust from ventilation grilles to ensure optimal airflow and prevent overheating.

6.2. Storage Expansion

The Mini PC supports additional storage expansion:

- You can add a 2.5-inch SSD or HDD (not included) to expand the memory upgrade storage up to 2TB.

6.3. Heat Dissipation

The BOSGAME P4 Mini PC features an efficient and stable heat dissipation system for quiet operation.

Highly efficient heat dissipation

Efficient and stable heat dissipation system, quiet operation



Figure 6.1: Internal heat dissipation components.

This image shows the internal cooling fan and heat conduits, which are crucial for maintaining optimal operating temperatures and ensuring stable performance.

7. TROUBLESHOOTING

If you encounter issues with your BOSGAME P4 Mini PC, consider the following common solutions:

- **No Display:** Ensure all display cables (HDMI, DP, USB-C) are securely connected to both the Mini PC and the monitor. Try a different cable or port. Verify the monitor is set to the correct input source.
- **No Power:** Check that the power adapter is correctly plugged into the Mini PC and a working power outlet. Try a different outlet.
- **Peripheral Not Detected:** Ensure USB devices are firmly plugged in. Try a different USB port. Update or reinstall device drivers in Windows Device Manager.
- **Slow Performance:** Close unnecessary applications. Check for background processes consuming high resources (Task Manager). Ensure sufficient free storage space. Update drivers and Windows.
- **Network Issues:** For wired connections, ensure the Ethernet cable is properly connected. For Wi-Fi, check

router status and ensure correct Wi-Fi password. Update network drivers.

- **Overheating:** Ensure the Mini PC's ventilation holes are not obstructed. Clean dust from the vents. Operate the PC in a well-ventilated area.

If problems persist, refer to the Warranty and Support section for further assistance.

8. SPECIFICATIONS

| Component | Specification |
|-----------------------|--|
| Brand | BOSGAME |
| Model Name | P4 |
| Operating System | Windows 11 Pro |
| CPU Model | AMD Ryzen 7 5825U (8C/16T, up to 4.5GHz) |
| Graphics Card | Integrated Radeon Graphics (8 GPU cores, 2000MHz) |
| RAM Memory | 32GB DDR4 (2x16GB) SODIMM, 3200MHz |
| Max RAM Memory | 64GB |
| Storage | 1TB M.2 NVMe PCIe 4.0x4 SSD |
| Expandable Storage | 2.5" SSD/HDD (up to 2TB, not included) |
| LAN | Dual 2.5G Ethernet Ports |
| Wireless Connectivity | Wi-Fi 6E, Bluetooth 5.2 |
| Video Outputs | HDMI 2.0 (4K@60Hz), DisplayPort (4K@60Hz), USB-C (4K@60Hz) |
| USB Ports | 2x USB 3.2 Gen1, 2x USB 2.0, 1x USB-C (Full-featured) |
| Audio | 1x Audio Jack |
| Color | Dark Black |

9. WARRANTY AND SUPPORT

BOSGAME offers a 1-year limited warranty for each desktop PC. For any product-related inquiries or support, please use the following methods:

- **Contact Us on Amazon:** Log in to your Amazon buyer's account, find your order, and click 'Get help' to ask for assistance with this product.
- **Email Support:** Send an email to the After-sales Support Team at support@bosgame.com. You will receive a response as soon as possible.

Our professional after-sales team is ready to attend to your needs, ensuring you can buy with confidence without worrying about product quality.

