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> BOSGAME P4 Ultra Mini PC Ryzen 7 7730U Instruction Manual

BOSGAME P4 Ultra

BOSGAME P4 Ultra Mini PC Ryzen 7 7730U Instruction Manual

Model: P4 Ultra

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, and maintaining your BOSGAME P4 Ultra Mini PC. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.

2. WHAT'S IN THE BOX

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

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

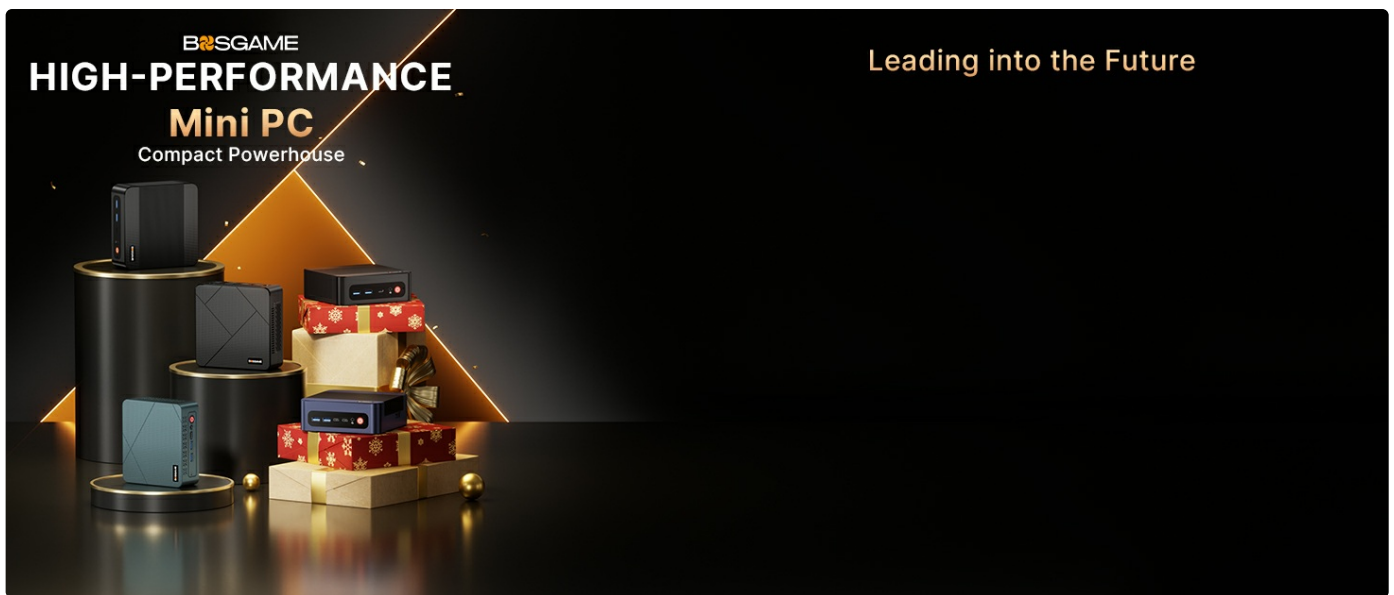


Image: The BOSGAME P4 Ultra Mini PC and its standard accessories, including the power adapter, HDMI cable, VESA mount, and user manual.

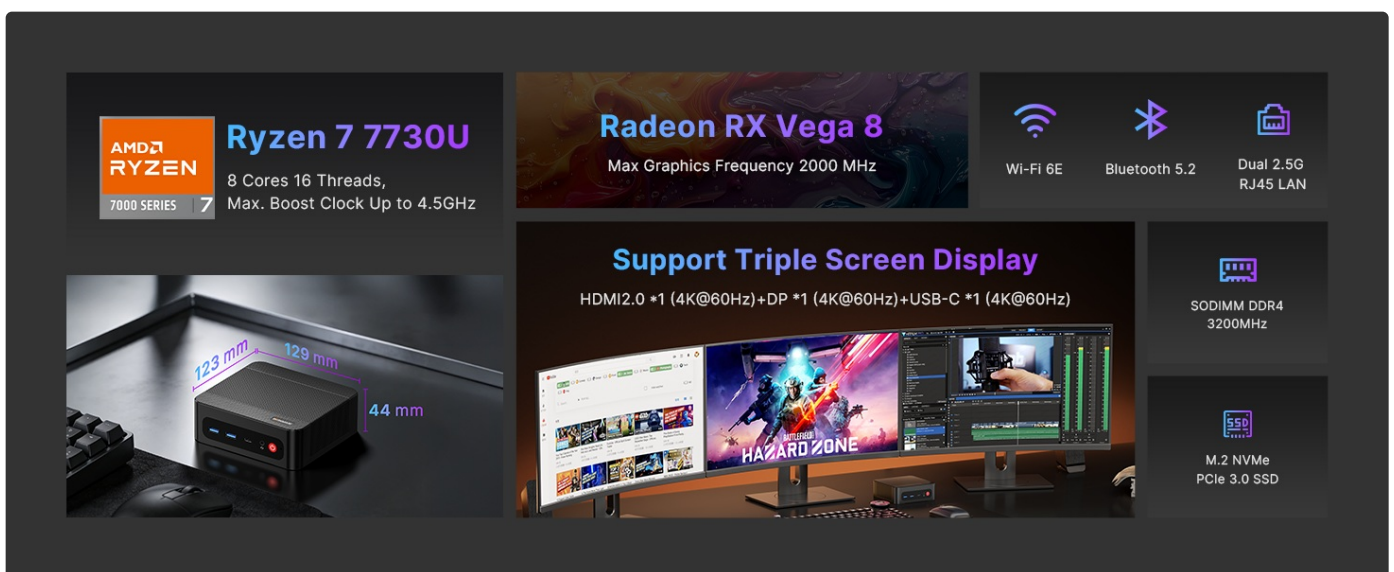


Image: A detailed view of the BOSGAME P4 Ultra Mini PC and its various components, highlighting the compact design and connectivity options.

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Video: P4 Ultra Ready to use out of the box. This video demonstrates the unboxing and initial setup process of the BOSGAME P4 Ultra Mini PC, showing how to connect peripherals and power on the device.

3. SETUP GUIDE

3.1 Initial Connection

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

Ryzen 7 7730U

8 Cores 16 Threads,
Max. Boost Clock Up to 4.5GHz

Radeon RX Vega 8

Max Graphics Frequency 2000 MHz



Support Triple Screen Display

HDMI2.0 *1 (4K@60Hz)+DP *1 (4K@60Hz)

USB-C *1 (4K@60Hz)



Dual DDR4
3200MHz



M.2 NVMe
PCIe 3.0 SSD



Wi-Fi 6E



Bluetooth 5.2



Dual 2.5G
RJ45 LAN

Image: Front and back views of the BOSGAME P4 Ultra Mini PC, illustrating the various ports for connectivity, including USB, HDMI, DisplayPort, and Ethernet.

3.2 Operating System Setup (Windows 11 Pro)

Your BOSGAME P4 Ultra Mini PC comes with Windows 11 Pro pre-installed. Follow the on-screen instructions to complete the initial setup.

- Select your country, region, and language.
- For the fastest and cleanest first-time setup, it is recommended to skip connecting to Wi-Fi during the initial setup. To do this, press **Shift + F10** on your keyboard to open a command window. Type `oobe\bypassnro` and press **Enter**. The PC will restart.
- Once restarted, you can proceed with the offline setup by selecting "I don't have internet" when prompted.
- Create a user account and password.
- Adjust privacy settings as desired.

The system is 100% clean, fast, and secure, with no bloatware.

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Video: BOSGAME BIOS Setup. This video demonstrates how to access and configure BIOS settings, including Auto Power On, Wake On LAN, and UMA Frame Buffer Size. It also shows the initial Windows setup process, including how to bypass network connection for offline setup.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- To power on, press the red power button on the front panel.
- To power off, click the Start menu in Windows and select "Power" then "Shut down." Alternatively, press and hold the power button for 5 seconds.

4.2 Triple Display Setup

The BOSGAME P4 Ultra supports simultaneous output to three 4K monitors via HDMI 2.0, DisplayPort, and Full-Function USB Type-C.

1. Connect the DisplayPort cable to the first monitor.
2. Connect the HDMI cable to the second monitor.
3. Connect the USB Type-C cable to the third monitor.
4. Ensure all monitors are powered on and set to the correct input source.

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Video: P4 Ultra Triple Screen Display for Productivity. This video demonstrates the process of connecting three monitors to the Mini PC using DisplayPort, HDMI, and USB-C, showcasing its triple display capability for enhanced productivity.

Dual 2.5G Ethernet ports

Network transmission rate up to 2.5Gbps, high-speed transmission without waiting



Image: The BOSGAME P4 Ultra Mini PC is shown connected to three external monitors, demonstrating its triple screen display support for multitasking and productivity.

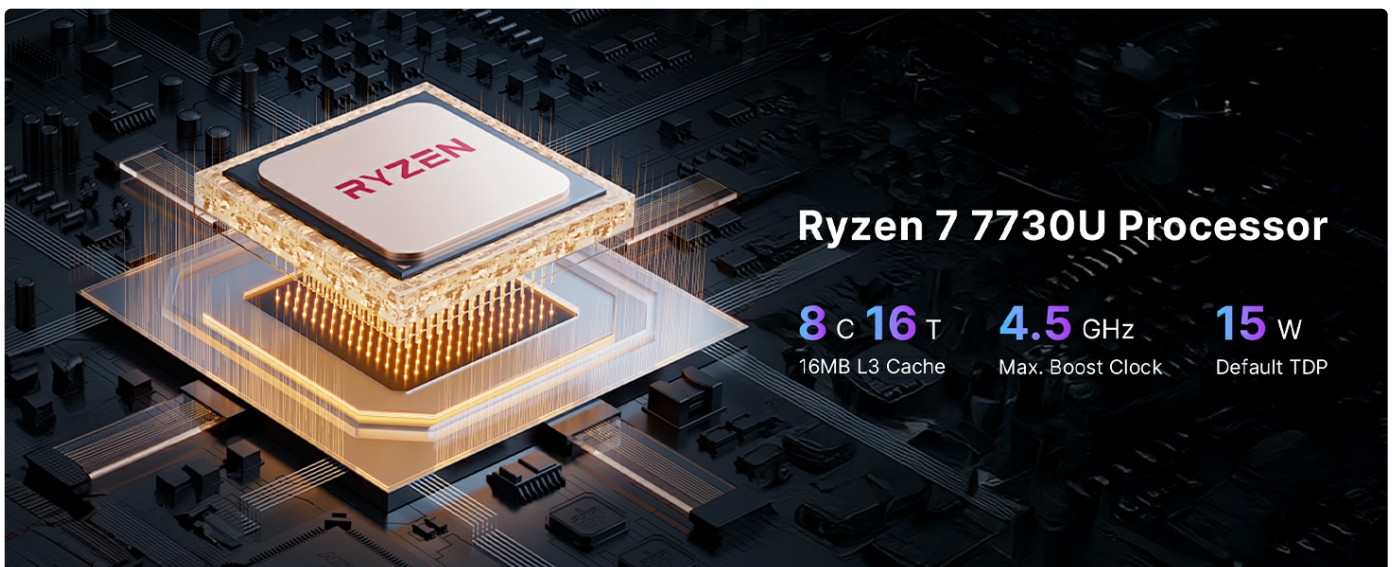


Image: A visual representation of the BOSGAME P4 Ultra Mini PC's capability to support triple 4K displays, ideal for complex workflows and immersive experiences.

5. CONNECTIVITY

5.1 Ports Overview

Interface	Quantity	Description
USB3.2 Gen2 (4K 60Hz)	1	Full-function USB Type-C for data, 4K video, and Power Delivery 3.0
HDMI (2.0 @4K 60Hz)	1	Video output to monitor
USB3.2 Gen1	2	High-speed data transfer
5.5*2.5mm DC Jack	1	Power input
USB2.0	2	Standard USB ports
3.5mm Combo Jack	1	Audio input/output
DP (4K 60Hz)	1	DisplayPort video output
2.5G RJ45 LAN	2	Dual 2.5 Gigabit Ethernet ports

Rich interfaces for more possibilities

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



Image: A close-up of the BOSGAME P4 Ultra Mini PC's front and rear ports, including USB 3.2, USB-C, Audio Jack, DC-in, 2.5G RJ45 LAN, DisplayPort, HDMI, and USB 2.0.

5.2 Wireless Connectivity

- **Wi-Fi 6E:** For high-speed, lag-free wireless internet.
- **Bluetooth 5.2:** For instant pairing with peripherals like keyboards, mice, and headphones.

REPLACE THE SSD AND RAM

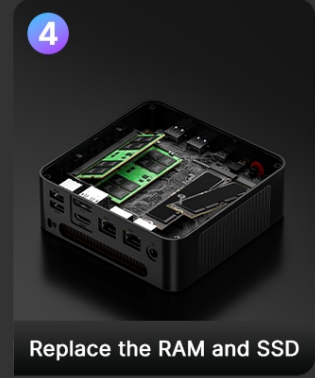
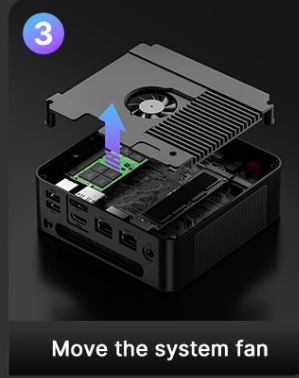
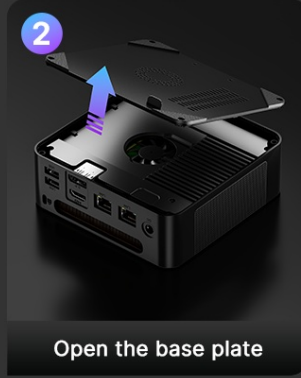


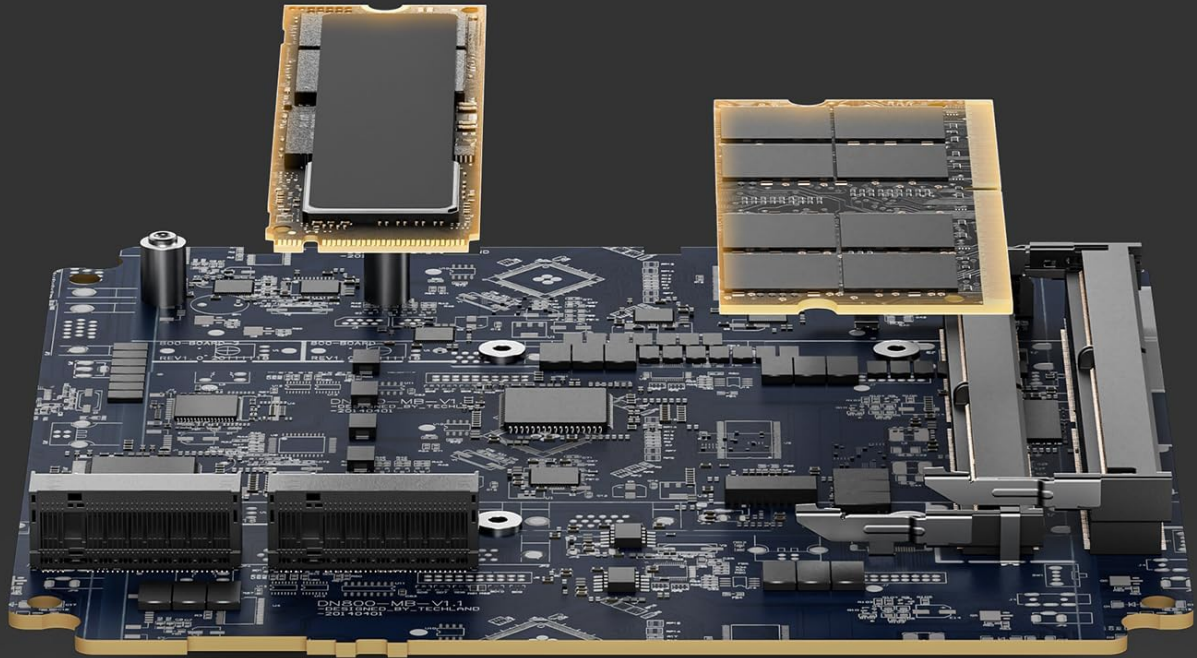
Image: The BOSGAME P4 Ultra Mini PC highlighting its advanced wireless capabilities including Wi-Fi 6E and Bluetooth 5.2, alongside dual 2.5G Ethernet ports for robust network connections.

6. PERFORMANCE & EXPANSION

The BOSGAME P4 Ultra Mini PC is powered by an AMD Ryzen 7 7730U processor, offering robust performance for various tasks.

- **Processor:** AMD Ryzen 7 7730U (8 Cores, 16 Threads, Max. Boost Clock up to 4.5GHz)
- **Graphics:** Radeon RX Vega 8 (Max Graphics Frequency 2000 MHz)
- **Memory:** 16GB DDR4 3200MHz SODIMM (expandable up to 32GB)
- **Storage:** 1TB NVMe PCIe 3.0 x4 SSD (expandable up to 4TB via additional M.2 2280 slot)

High Capacity High Performance



1TB

M.2 2280 NVMe
PCIe 3.0x4 SSD

16GB

SODIMM DDR4
Memory

Image: An internal view of the BOSGAME P4 Ultra Mini PC, showcasing the 1TB NVMe PCIe 3.0 x4 SSD and 16GB DDR4 3200MHz SODIMM memory modules, highlighting its high-speed storage and memory.

6.1 Storage and RAM Upgrade

You can upgrade the RAM and SSD to enhance performance or storage capacity.

1. Remove the screws from the base plate.
2. Carefully open the base plate.
3. Move the system fan to access the RAM and SSD slots.
4. Replace the RAM and/or SSD as needed.



Image: A visual guide demonstrating the four steps to replace the SSD and RAM in the BOSGAME P4 Ultra Mini PC: removing screws, opening the base plate, moving the system fan, and replacing components.

6.2 Graphics Dock Expansion

The Mini PC supports graphics dock expansion via its full-featured USB Type-C port, allowing for enhanced graphics performance for demanding applications or gaming.

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Video: P4 Ultra Powerful mini pc. This video highlights the powerful features of the P4 Ultra Mini PC, including its graphics dock expansion capability via USB-C for enhanced gaming and demanding tasks.

7. MAINTENANCE

7.1 Cooling System

The Mini PC features an advanced thermal design and a low-noise fan system to ensure stable operation and efficient heat dissipation, even under load.

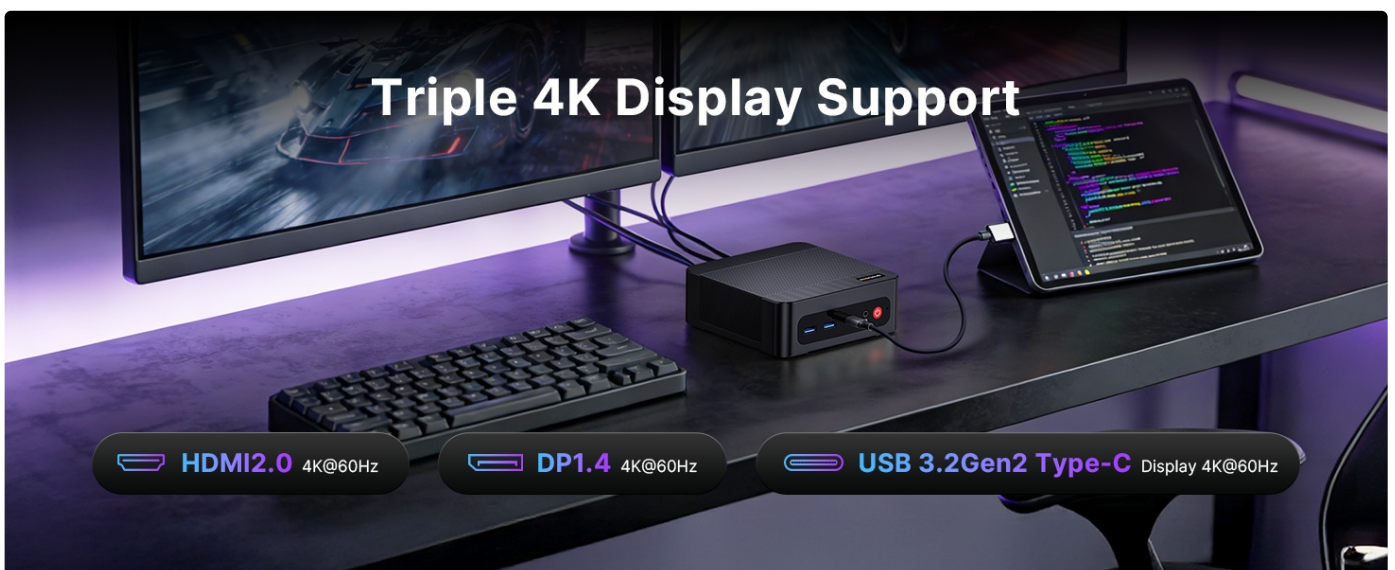


Image: An illustration of the BOSGAME P4 Ultra Mini PC's internal cooling system, demonstrating superior airflow design for enhanced heat dissipation and extended lifespan.

Excellent Cooling for Long Lifespan

Superior airflow design for enhanced cooling, extending lifespan and ensuring reliable performance - giving you peace of mind during use.



Image: The BOSGAME P4 Ultra Mini PC is shown in a quiet environment, emphasizing its low-noise operation, ideal for home offices and media rooms.

8. TROUBLESHOOTING

8.1 BIOS Settings

To access and modify BIOS settings, press the **Delete** key repeatedly during boot-up.

- **Auto Power On:** Navigate to **Advanced** → **Auto Power On**. Press **Enter**, select **Power On**, then press **F4** to save.
- **Wake On LAN:** Navigate to **Advanced** → **Wake On LAN**. Press **Enter**, select **Enabled**, then press **F4** to save.
- **UMA Frame Buffer Size:** Navigate to **Advanced** → **UMA Frame Buffer Size**. Press **Enter**, select the desired size (e.g., **8G**), then press **F4** to save. This allocates system memory to graphics for higher-level tasks.
- **S5 RTC Wake Settings:** Navigate to **Advanced** → **S5 RTC Wake Settings**. Press **Enter**, select **Fixed Time** or **Dynamic Time**, then press **F4** to save. This allows the system to wake from S5 (soft off) at a scheduled time.

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

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Video: BOSGAME BIOS Setup. This video demonstrates how to access and configure BIOS settings, including Auto Power On, Wake On LAN, and UMA Frame Buffer Size. It also shows the initial Windows setup process, including how to bypass network connection for offline setup.

9. SPECIFICATIONS

Feature	Detail
Brand	BOSGAME
Model Name	P4 Ultra
Operating System	Windows 11 Pro (pre-installed), compatible with Linux
CPU Model	Ryzen 7 7730U
CPU Speed	2 GHz (Base), 4.5 GHz (Max Boost)
CPU Cores/Threads	8 Cores, 16 Threads

Feature	Detail
Cache Size	16 MB
Graphics Card	Integrated Radeon Graphics (Radeon RX Vega 8)
Graphics Frequency	2000 MHz (Max)
Memory (RAM)	16 GB DDR4 3200MHz SODIMM (Max 32 GB)
Storage	1 TB NVMe PCIe 3.0 x4 SSD (Max 4 TB, 2x M.2 2280 slots)
Video Output	HDMI (4K@60Hz), DisplayPort (4K@60Hz), USB Type-C (4K@60Hz)
LAN	Dual 2.5G RJ45 Ethernet
Wireless Connectivity	Wi-Fi 6E, Bluetooth 5.2
USB Ports	2x USB 3.2 Gen1, 2x USB 2.0, 1x USB 3.2 Gen2 Type-C (Full-function)
Audio	3.5mm Combo Jack
Power Consumption	15 Watts (Default TDP)
Dimensions	5.12 x 4.72 x 1.73 inches (129 x 123 x 44 mm)
Weight	514 Grams (1.13 lbs)
Cooling Method	Fan
VESA Mount	Included



Image: A table summarizing the key product specifications of the BOSGAME P4 Ultra Mini PC, including dimensions, network, CPU, GPU, adapter, and interface details.

10. WARRANTY & SUPPORT

BOSGAME is committed to quality and customer satisfaction.

- **Warranty:** The BOSGAME P4 Ultra Mini PC comes with a 12-month warranty for the entire machine and a 3-year warranty for parts.
- **Customer Service:** For any questions or support regarding your purchase, please contact BOSGAME customer service.

How to Contact Support:

1. **Contact Us on Amazon:** Log in to your Amazon buyer's account, find your order, click 'Get help'.
2. **Send E-mail to After-sales Support Team:** You can also reach out via email for assistance.


Office/Business



Image: BOSGAME customer support details, including methods to contact via Amazon and email for after-sales service.

MULTI-FUNCTION USB-C PORT




TRANSMISSION RATE
10Gbps, faster than USB3.0



VIDEO OUTPUT
up to 4K



POWER DELIVERY (PD 3.0)
100W input,
max 15W(5V 3A) output




EXTERNAL DEVICES
SSDs, VR headsets; etc.

Image: An overview of BOSGAME's professional team and their commitment to customer support, including warranty details and 24/7 customer service.