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BOSGAME P6

BOSGAME P6 Mini PC Instruction Manual - AMD Ryzen 9 6900HX

INTRODUCTION

This manual provides essential information for setting up, operating, and maintaining your BOSGAME P6 Mini PC. The BOSGAME P6 is a compact desktop computer designed for various tasks, including gaming, multimedia, and office productivity. It features an AMD Ryzen 9 6900HX processor, 32GB of DDR5 RAM, and a 1TB PCIe 4.0 NVMe SSD, offering robust performance in a small form factor.



Image: Front view of the BOSGAME P6 Mini PC, showcasing its compact design and front ports.

WHAT'S IN THE BOX

Verify that all items listed below are included in your package:

- 1x BOSGAME P6 Mini PC
- 1x HDMI Cable
- 1x Wall Mount
- 1x Power Adapter (Input AC 100~240V, 50/60Hz, Output DC 19V/6.3A) (5.5mm x 2.5mm)
- 1x User Manual

ACCESSORY SHOWCASE



P6 Mini PC



HDMI cable



VESA mount with screws



Power adapter



User manual

Image: All included accessories for the BOSGAME P6 Mini PC, including the PC unit, HDMI cable, wall mount, power adapter, and user manual.

PRODUCT OVERVIEW

The BOSGAME P6 Mini PC is designed for efficiency and versatility. Its compact dimensions (approximately 129 x 123 x 44 mm) allow for flexible placement in various environments.

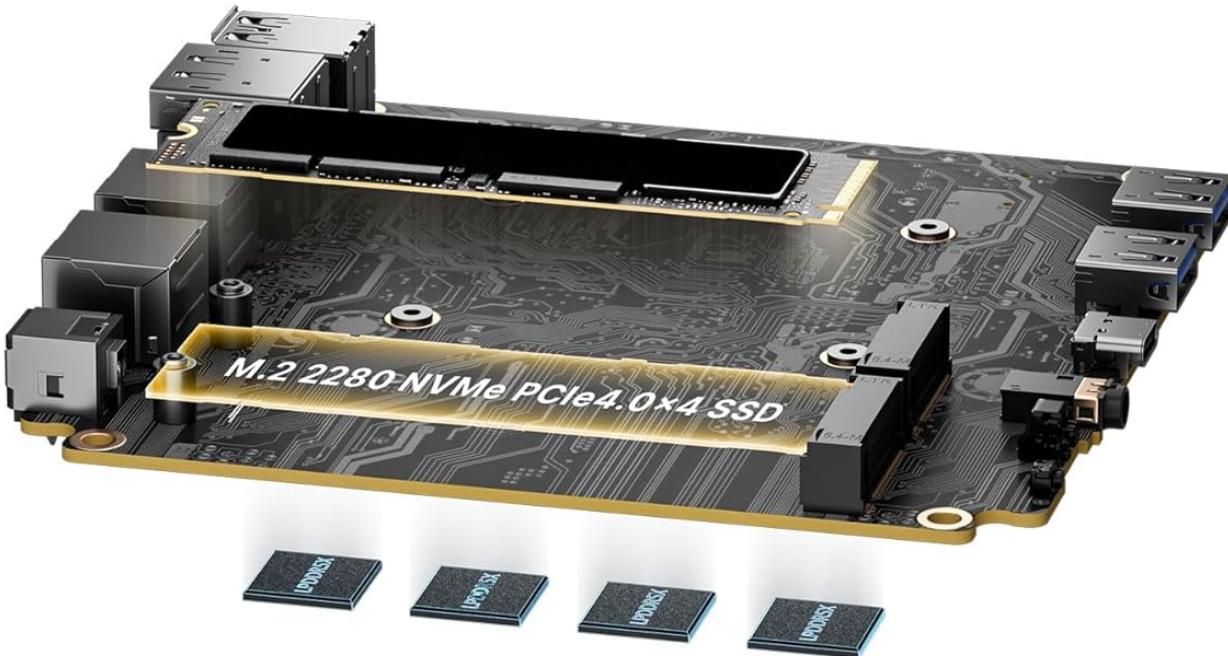
Ports and Connectors

The device features a comprehensive set of ports for connectivity:

- **Front Ports:** Power button, Audio Jack, USB-C (4K@60Hz), 2x USB 3.2 Gen2 10Gbps ports.
- **Rear Ports:** DC Power Input, 2x RJ45 LAN ports, HDMI (4K@60Hz), DP (4K@60Hz), 2x USB 3.2 Gen2 10Gbps ports, 2x USB 2.0 480Mbps ports.

HIGH CAPACITY HIGH PERFORMANCE

Equipped with **LPDDR5X 6400MHz 32G** memory and **1TB PCIe 4.0 SSD**, it delivers powerful performance, supporting smooth multitasking and high-load applications.



1TB

50% ↑

PCIe 4.0

7000 MB/s

PCIe 3.0

3500 MB/s

32GB

31% ↑

LPDDR5X

Up to 8000Mbps

LPDDR5

Up to 5500Mbps



M.2 2280 NVMe PCIe4.0x4 SSD slot,
Expandable up to 1TB

EXTENDABLE

Image: Detailed diagram illustrating the front and rear port configurations of the BOSGAME P6 Mini PC.

SETUP

Follow these steps for initial setup of your BOSGAME P6 Mini PC:

- Connect Display:** Connect your monitor(s) to the Mini PC using the HDMI, DisplayPort (DP), or USB-C ports.

2. **Connect Peripherals:** Connect your keyboard, mouse, and any other USB devices to the available USB ports.
3. **Connect Power:** Plug the power adapter into the DC input port on the Mini PC, then plug the adapter into a power outlet.
4. **Power On:** Press the power button on the front of the Mini PC.
5. **Initial Windows Setup:** Follow the on-screen instructions to complete the Windows operating system setup.

Windows System Setup Guide

Your browser does not support the video tag.

Video: An official guide from BOSGAME PC demonstrating the steps to set up the Windows operating system on the Mini PC.

OPERATING INSTRUCTIONS

Connecting Multiple Displays

The BOSGAME P6 supports up to three 4K monitors simultaneously, utilizing its HDMI, DisplayPort (DP), and full-function USB-C ports. This allows for an expanded workspace for productivity or immersive gaming experiences.

WI-FI 6E+BLUETOOTH: 5.3

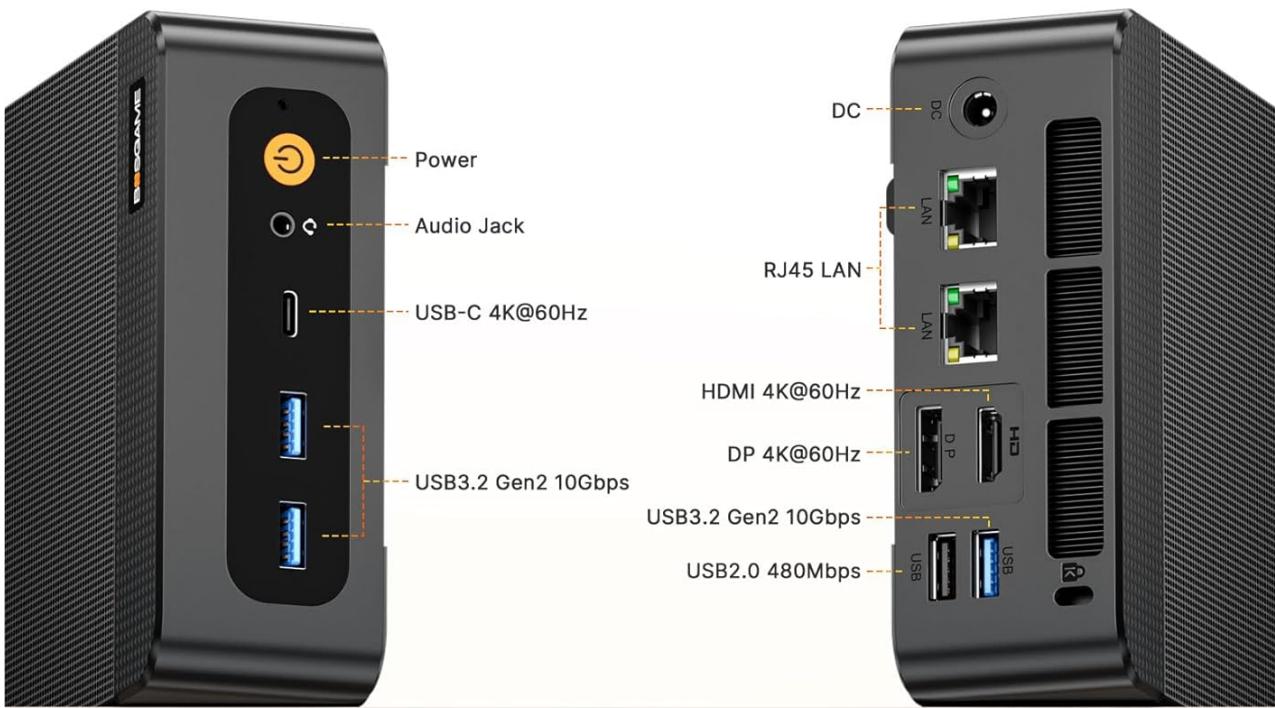
IMPROVE WIRELESS PERFORMANCE



Image: A visual representation of the BOSGAME P6 Mini PC connected to three displays, demonstrating its triple screen display capability.

Wireless Connectivity

The Mini PC is equipped with Wi-Fi 6E for high-speed wireless internet access and Bluetooth 5.3 for connecting wireless peripherals such as headphones, speakers, keyboards, and mice.



Connectivity for All Needs



4K monitor



Printer



surveillance camera



NAS



HD TV



Game controller



Projector



Speakers

Image: Diagram illustrating the Wi-Fi 6E and Bluetooth 5.3 capabilities of the BOSGAME P6 Mini PC and compatible devices.

Wired Network Connectivity

Dual RJ45 LAN ports provide stable and fast wired internet speeds, supporting features like Wake On LAN (WOL) for remote management and an Auto Power On function for automatic startup.

SUPPORT TRIPLE SCREEN DISPLAY

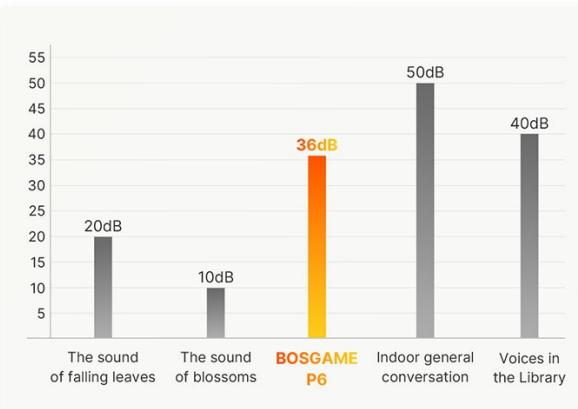
Meet all your daily needs, working & entertaining



Image: Illustration of the dual RJ45 LAN ports on the BOSGAME P6 Mini PC, highlighting features like bandwidth aggregation and network reliability.

Multi-Function USB-C Port

The full-function USB-C port supports 10Gbps data transmission, 4K video output, and Power Delivery (PD 3.0) for charging compatible devices or powering the Mini PC from a suitable power source.



OUTSTANDING QUIETNESS



Image: Visual guide to the multi-function USB-C port on the BOSGAME P6 Mini PC, detailing its capabilities for data, video, external devices, and power delivery.

PERFORMANCE FEATURES

Processor

The BOSGAME P6 is powered by the AMD Ryzen 9 6900HX processor, featuring 8 cores and 16 threads with a maximum boost clock of 4.9GHz. Integrated Radeon 680M graphics (RDNA 2 architecture) provide capable visual processing for gaming and demanding applications.

RYZEN 9 6900HX PROCESSOR

8 C 16 T

16MB L3 Cache

4.90 GHz

Max. Boost Clock

45 W

Default TDP



Cinebench R23 (Multi-Core) date



*This data is based on test results obtained in a laboratory environment.

Actual data may vary depending on actual usage conditions.

Image: Detailed view of the AMD Ryzen 9 6900HX processor, highlighting its core count, thread count, clock speed, and TDP.

Memory and Storage

The Mini PC includes 32GB of LPDDR5X RAM operating at 6400MHz, ensuring smooth multitasking. Storage is provided by a 1TB NVMe PCIe 4.0 SSD, offering fast boot times and application loading. The storage is expandable up to 8TB across dual slots.



R9 6900HX / Radeon RX 680M

8Cores 16Threads, Max. Boost Clock Up to 4.9GHz
Graphics Frequency: 2400MHz



129*123*44mm



Multifunctional
Input/output port



LPDDR5X 6400MHz
(On Board)



M.2 NVMe 2280
PCIe4.0×4 SSD



Support Triple Screen Display

HDMI2.0(4K@60Hz)+USB-C(4K@60Hz)+DP(4K@60Hz)



Compatible with
multiple systems



Dual RJ45 LAN



Wi-Fi 6E



Bluetooth 5.3

Image: Diagram showing the LPDDR5X RAM and M.2 NVMe PCIe 4.0 SSD, illustrating their speeds and expandability.

Cooling System

An advanced vapor chamber cooling system is integrated to maintain optimal operating temperatures, ensuring stable performance even under heavy loads.



Image: Illustration demonstrating the highly efficient heat dissipation system of the BOSGAME P6 Mini PC.

Gaming Performance Example

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Video: A benchmark test of the 'Black Myth WU KONG' game running on the BOSGAME P6 Mini PC, demonstrating its gaming capabilities.

MAINTENANCE

To ensure the longevity and optimal performance of your BOSGAME P6 Mini PC, regular maintenance is recommended:

- Dust Removal:** Periodically clean the exterior of the Mini PC with a soft, dry cloth. Use compressed air to clear dust from ventilation grilles to prevent overheating.
- Software Updates:** Keep your operating system and drivers updated to the latest versions for security and performance improvements.
- Environmental Conditions:** Operate the Mini PC in a well-ventilated area, away from direct sunlight, excessive heat, and moisture.

TROUBLESHOOTING

If you encounter issues with your Mini PC, refer to the following common troubleshooting tips:

- 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 display cable (HDMI, DP, or USB-C) is firmly connected to both the Mini PC and the monitor. Check if the monitor is set to the correct input source.
- Peripheral Not Detected:** Ensure USB devices are properly connected. Try connecting them to a different USB port. For wireless devices, check battery levels and pairing status.
- System Slowdown:** Close unnecessary applications. Check for background processes consuming high resources. Ensure sufficient free storage space.

SPECIFICATIONS

Feature	Specification
Brand	BOSGAME
Series	BOSGAME Ryzen 9 6900HX Mini Gaming PC
Model Number	P3
Processor	AMD Ryzen 9 6900HX (8C/16T, 4.9GHz)
Graphics Card	AMD Radeon 680M (RDNA 2)
RAM	32GB LPDDR5X (6400MHz)
Hard Drive	1TB PCIe 4.0 NVMe SSD
Operating System	Support Win/Ubuntu/Linux
Wireless Type	Wi-Fi 6E, Bluetooth 5.3
Ethernet	Dual RJ45 LAN (Gigabit)
USB Ports	4x USB 3.2 Gen2, 2x USB 2.0, 1x Full-function USB-C
Video Output	HDMI 4K@60Hz, DP 4K@60Hz, USB-C 4K@60Hz (Triple Display Support)
Dimensions	129 x 123 x 44 mm
Item Weight	2.75 pounds

WARRANTY AND SUPPORT

BOSGAME offers a 1-year limited warranty on all PCs. Enjoy 30-day hassle-free returns and access to 24/7 technical support for any issues. If you encounter any problems, contact BOSGAME directly—our dedicated team is committed to resolving your concerns promptly with honest and professional service.

For technical support, please visit the official BOSGAME website or contact their customer service team.

Product Overview Video

Your browser does not support the video tag.

Video: A short overview of the BOSGAME P3 Mini PC, showcasing its design and features.

Related Documents - P6

	<p>Bosgame EffiZen Series AS1 Mini PC Instruction Manual Official instruction manual for the Bosgame EffiZen Series AS1 Mini PC, detailing setup, hardware installation (SSD, RAM), VESA mounting, usage guidelines, and support resources.</p>
	<p>BOSGAME H66/H68/H77 Mini PC User Manual and Technical Specifications Official user manual for BOSGAME H66, H68, and H77 mini PCs, detailing technical specifications, safety precautions, connection steps, warranty, and FCC compliance.</p>
	<p>BOSGAME MGI i5 12500H PRO Product and Safety Information Comprehensive product and safety information for the BOSGAME MGI i5 12500H PRO mini PC, including setup, connectivity, safety guidelines, and FCC compliance details.</p>
	<p>Bosgame EffiZen Series C1 Mini PC Instruction Manual Comprehensive instruction manual for the Bosgame EffiZen Series C1 Mini PC, covering setup, usage, maintenance, and support.</p>
	<p>BOSGAME PTX20 Mini PC Technical Specifications and Overview Detailed technical specifications, dimensions, and operational notes for the BOSGAME PTX20 Mini PC manufactured by Shenzhen Weikesen Electronic Technology Co., Ltd.</p>
	<p>EffiZen Series P2 Mini PC Instruction Manual - Bosgame Official instruction manual for the Bosgame EffiZen Series P2 Mini PC. Learn about setup, usage, maintenance, compliance, and warranty information.</p>