BOSGAME E4

BOSGAME E4 Mini PC User Manual

Model: E4 - AMD Ryzen 5 3550H Desktop Computer

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your BOSGAME E4 Mini PC. The BOSGAME E4 is a compact desktop computer powered by an AMD Ryzen 5 3550H processor, designed for various applications including office work, home entertainment, and light computing tasks. Please read this manual thoroughly before using your device to ensure optimal performance and longevity.

Image 1.1: Front view of the BOSGAME E4 Mini PC, showcasing its compact design and front ports.

2. Package Contents

Verify that all items listed below are present in your product packaging:

- BOSGAME E4 Mini PC
- Power Adapter
- HDMI Cable
- VESA Mount with Screws
- User Manual

ACCESSORY SHOWCASE + –

① E4 Mini PC

② Power adapter

③ HDMI cable

④ VESA mount with screws

⑤ User manual

Image 2.1: All included accessories for the BOSGAME E4 Mini PC, including the PC unit, power adapter, HDMI cable, VESA mount, and user manual.

3. Product Overview

3.1. Port Layout

The BOSGAME E4 Mini PC features a comprehensive set of ports for various connectivity needs:

- **Front Ports:** Power button, Audio Jack, USB-C (1080P@60Hz), USB 3.2 Gen2 (10Gbps) x2
- **Rear Ports:** USB 2.0 (480Mbps) x2, USB 3.2 Gen2 (10Gbps) x1, DisplayPort (DP) 4K@60Hz, HDMI 2.0 4K@60Hz, Dual RJ45 LAN, DC Power Input
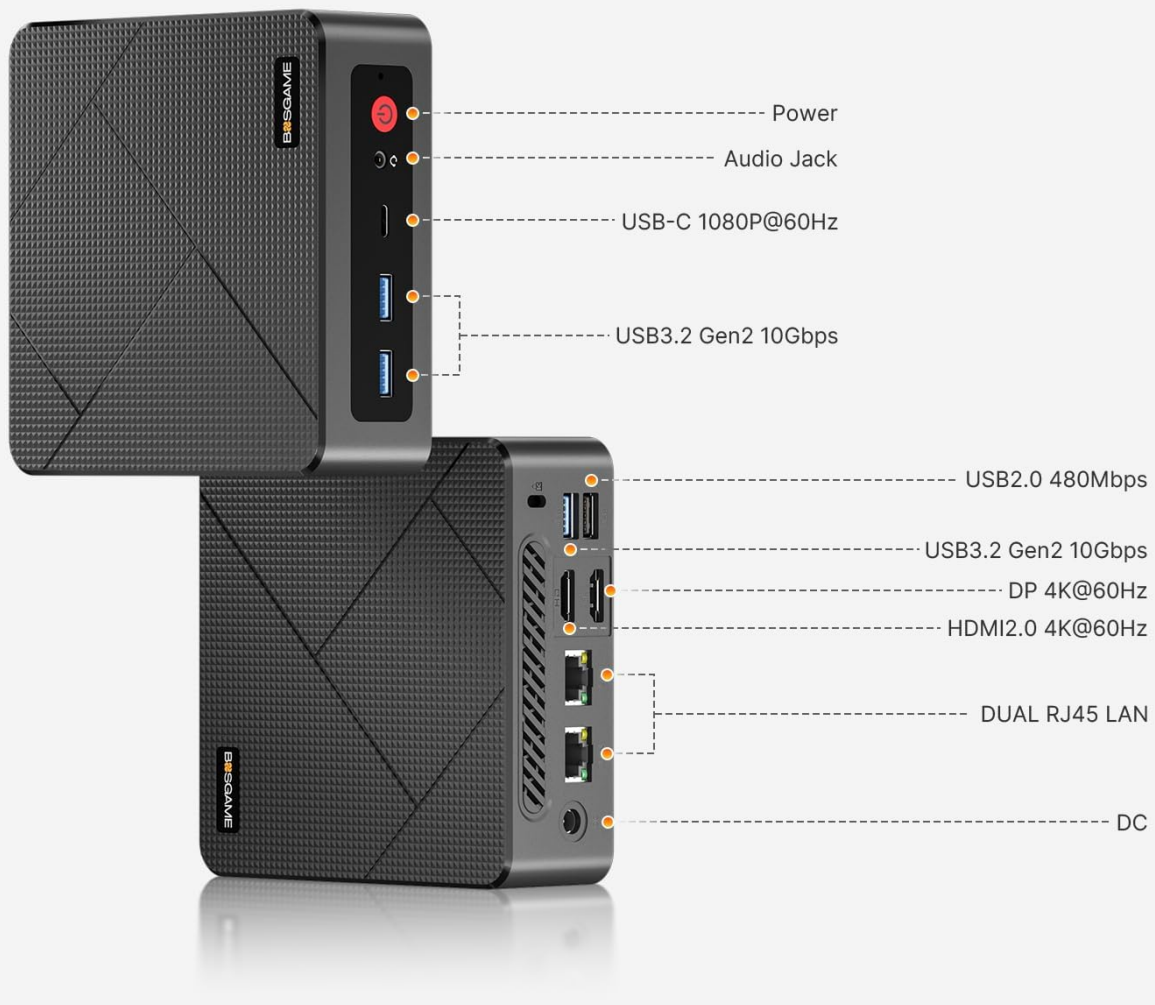

Image 3.1: Detailed diagram showing the front and rear port configurations of the BOSGAME E4 Mini PC.

3.2. Dimensions

The compact design of the E4 Mini PC allows for flexible placement. Its dimensions are approximately 128mm x 127.1mm x 42.8mm.
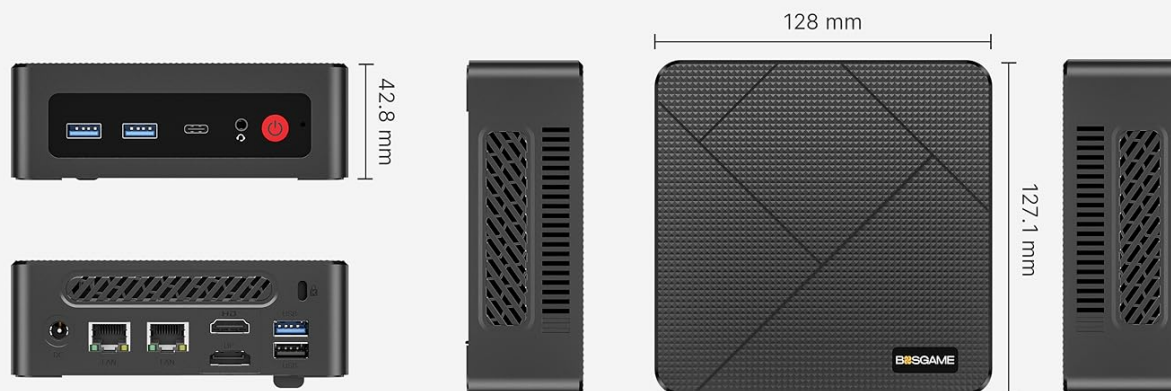
Image 3.2: Technical drawing illustrating the precise dimensions of the BOSGAME E4 Mini PC.

4. SETUP INSTRUCTIONS

4.1. Initial Connection

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

4.2. VESA Mount Installation

The BOSGAME E4 Mini PC supports VESA mounting for discreet placement behind a monitor or on a wall.

1. Fix the VESA bracket to the Mini PC using the provided screws.
2. Fix the bracket, with the Mini PC attached, to the back of your display or desired mounting surface using the appropriate screws.

Image 4.1: Visual guide for installing the BOSGAME E4 Mini PC using the VESA mount behind a monitor.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

- **To Power On:** Press the red power button on the front panel.
- **To Power Off:** Use the operating system's shutdown function. Alternatively, press and hold the power button for 5 seconds to force a shutdown (use only when necessary).

5.2. Display Connectivity

The E4 Mini PC supports triple display output, allowing for extended desktop environments or multi-monitor setups. Connect up to three displays using the HDMI, DisplayPort, and USB-C video outputs. The HDMI and DisplayPort support 4K resolution at 60Hz, while the USB-C port supports 1080P at 60Hz.

Image 5.1: Illustration of the BOSGAME E4 Mini PC connected to three displays, demonstrating its triple screen display capability.

5.3. Network Connectivity

- **Wired Connection:** Utilize the dual RJ45 Gigabit LAN ports for stable and high-speed wired network access. These ports can be combined for higher data transfer rates and network stability.
- **Wireless Connection:** The Mini PC features Wi-Fi 5 for wireless internet access and Bluetooth 5.0 for connecting wireless peripherals.

Dual RJ45 LAN

+ −

By combining the two ports, higher data transfer rates can be achieved while maintaining network stability and reliability.

Image 5.2: Close-up view of the dual RJ45 LAN ports on the BOSGAME E4 Mini PC, highlighting their capability for combined network stability and speed.

Image 5.3: Diagram illustrating the powerful wireless connectivity of the BOSGAME E4 Mini PC, showing Wi-Fi 5 and Bluetooth 5.0 coverage within a typical home environment.

5.4. USB-C Functionality

The front USB-C port supports 5Gbps data transmission and 1080P video output, allowing connection to compatible displays or peripherals.

USB-C INTERFACE

⇄ 5Gbps data transmission   ▢ Supports 1080P video output

Image 5.4: The USB-C interface of the BOSGAME E4 Mini PC connected to an external monitor, demonstrating its video output capability.

6. PERFORMANCE OVERVIEW

6.1. Processor and Graphics

The BOSGAME E4 is equipped with an AMD Ryzen 5 3550H processor, featuring 4 cores and 8 threads, with a maximum boost clock of up to 3.70 GHz and 4MB L3 Cache. Integrated AMD Radeon Vega 8 Graphics handle visual processing with a graphics frequency of 1200 MHz.

AMD RYZEN 5 3550H

4c **8**t

4MB L3 Cache

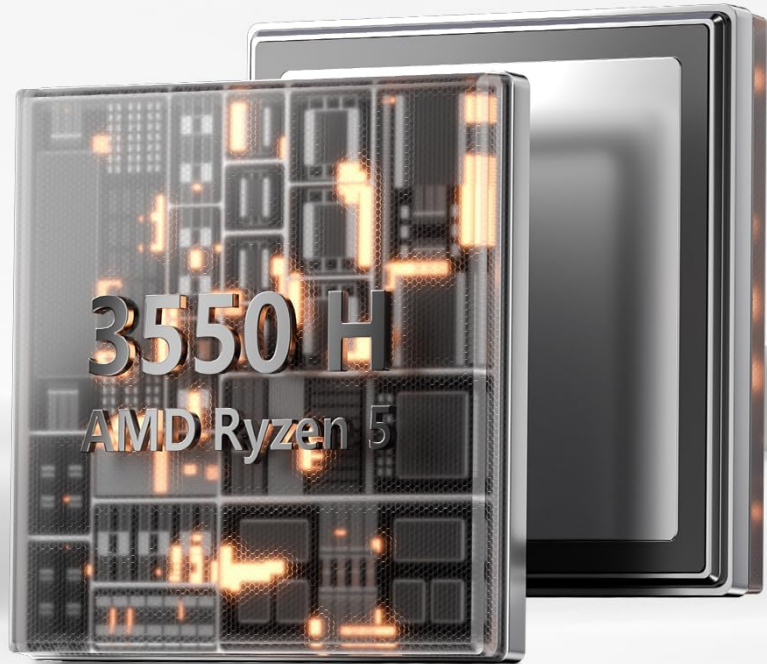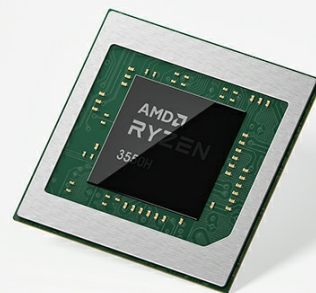**3.70** GHz

Max. Boost Clock

25 W

TDP

Image 6.1: Visual representation of the AMD Ryzen 5 3550H processor, highlighting its core count, thread count, boost clock, L3 cache, and TDP.

AMD RYZEN 5 3550H

4 Cores **8** Threads   **3.70** GHz   **25** W

4MB L3 Cache   Max. Boost Clock   TDP

Image 6.2: Detailed specifications of the AMD Ryzen 5 3550H, including core/thread count, boost clock, and TDP.

6.2. Memory and Storage

The Mini PC comes with 16GB of DDR4 2400MHz SODIMM RAM and a 512GB M.2 2280 NVMe PCIe 3.0 SSD, providing fast boot times and responsive application performance.

Image 6.3: Components showing the 16GB DDR4 SODIMM RAM and 512GB M.2 NVMe SSD, emphasizing high capacity and performance.

6.3. Performance Benchmarks

The AMD Ryzen 5 3550H processor demonstrates strong performance in various benchmarks, including 3DMark and Cinebench R23, indicating its capability for demanding tasks.
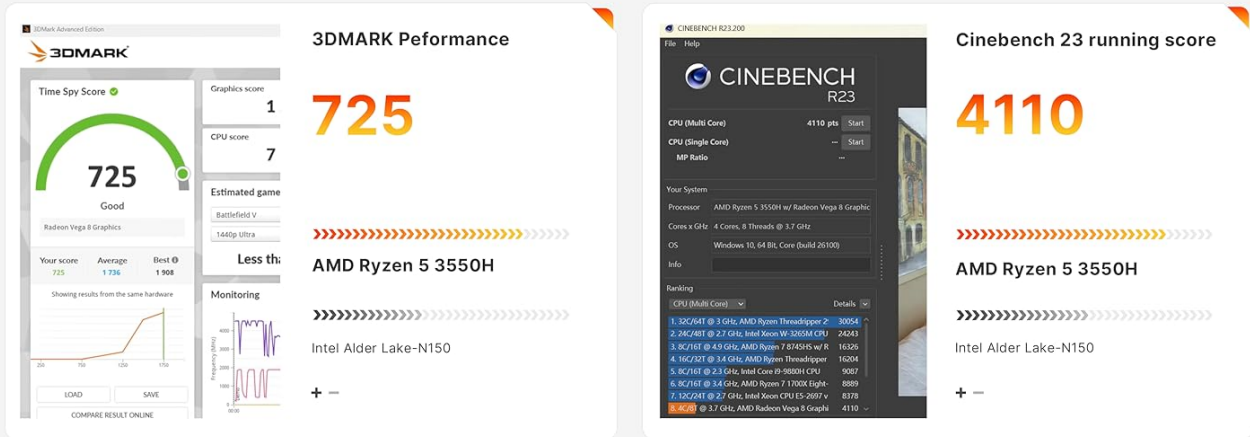
Image 6.4: Graphical representation of 3DMark and Cinebench R23 benchmark scores for the AMD Ryzen 5 3550H.

7. MAINTENANCE

7.1. Heat Dissipation

The BOSGAME E4 Mini PC incorporates an efficient and stable heat dissipation system, including a cooling fan and heat sink fins, to maintain optimal operating temperatures and ensure quiet operation.

Image 7.1: Internal view highlighting the cooling fan and heat sink fins, key components of the efficient heat dissipation system.

7.2. Noise Levels

The design prioritizes quiet operation. Noise levels are typically low, even under load, contributing to a comfortable working environment.

Image 7.2: Chart comparing the noise level of the BOSGAME E4 Mini PC (30dB) to common environmental sounds.

8. SPECIFICATIONS

Below are the detailed technical specifications for the BOSGAME E4 Mini PC:

Feature	Specification
Model	E4
Processor	AMD Ryzen 5 3550H (4 Cores, 8 Threads, Max Turbo Frequency 3.70GHz, 4MB Smart Cache)
Graphics	AMD Radeon Vega 8 Graphics (Graphics Frequency: 1200 MHz)
RAM	16GB DDR4 SODIMM (2400MHz)
Storage	512GB M.2 2280 NVMe PCIe 3.0 SSD
Operating System Support	Windows, Ubuntu, Linux
Network	Wi-Fi 5, Bluetooth 5.0, Dual RJ45 LAN
Video Output	HDMI 2.0 (4K@60Hz), DisplayPort (DP) (4K@60Hz), USB-C (1080P@60Hz)
USB Ports	3x USB 3.2 Gen2 (10Gbps), 2x USB 2.0 (480Mbps), 1x USB-C (1080P@60Hz)
Audio	3.5mm Combo Jack
Power Adapter	19V-3.42A (Input: 100-240V AC, 50/60Hz)
Dimensions	128 x 127.1 x 42.8 mm
Additional Function	WOL (Wake-on-LAN), Auto Power On

PRODUCT SPECIFICATION

Dimension

128*127.1*42.8 mm

Network

Wi-Fi 5   Bluetooth: 5.0

Additional function

WOL   AUTO POWER ON

CPU

AMD Ryzen 5 3550H

Max Turbo Frequency 3.7GHz(4C/8T) 4MB Smart Cache

Adapter

19V-3.42A Certification

Input: 100-240V AC, 50/60Hz , Output: 19V-3.42A

GPU

AMD Radeon Vega 8 Graphics

Graphics Frequency: 1200 MHz

Interface

USB3.2 Gen2 10Gbps*3   USB2.0 480Mbps*1   USB-C(1080P@60Hz) *1   RJ45 LAN *2   HDMI2.0(4K@60Hz)*1   DP(4K@60Hz)*1

3.5mm Combo Jack *1   5.5*2.5mm DC Jack*1

Image 8.1: A visual summary of the BOSGAME E4 Mini PC's key product specifications.

9. TROUBLESHOOTING

If you encounter issues with your BOSGAME E4 Mini PC, please 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. Test the outlet with another device.
- **No Display:** Verify that the monitor is powered on and correctly connected to the Mini PC's video output port. Try a different video cable or monitor if available. Ensure the correct input source is selected on your monitor.
- **No Internet Connection:** For wired connections, check the Ethernet cable and router status. For Wi-Fi, ensure Wi-Fi is enabled in the operating system and you are connected to the correct network with the correct password.
- **Peripheral Not Detected:** Try connecting the peripheral to a different USB port. Ensure drivers are installed if required by the peripheral.
- **System Slowdown:** Close unnecessary applications. Check for background processes consuming high resources. Ensure sufficient free storage space on the SSD.
- **Overheating:** Ensure the Mini PC is placed in a well-ventilated area and that its vents are not obstructed. Avoid placing it on soft surfaces that can block airflow.
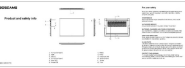
If problems persist, please contact customer support for further assistance.

10. WARRANTY AND SUPPORT

BOSGAME is committed to providing reliable products and customer service.

- **Warranty:** Your BOSGAME E4 Mini PC comes with a 12-month warranty from the date of purchase.
- **Technical Support:** Lifetime technical support is provided for your product.
- **Customer Service:** For any inquiries or support needs, please contact us via email at support@bosgamepc.com.

Related Documents - E4

	[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.
	[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.
	[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.
	[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.
	[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.
	[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.