BOSGAME AG40

BOSGAME AG40 Fanless Mini PC User Manual

Introduction   Product Overview   Setup   Operating Instructions   Maintenance   Troubleshooting   Specifications   Warranty & Support

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your BOSGAME AG40 Fanless Mini PC. Please read this manual thoroughly before using the device to ensure proper functionality and longevity.

The BOSGAME AG40 is a compact, fanless mini PC designed for various applications, including business, home use, and digital signage. It features an Intel Celeron N4020 processor, 4GB DDR4 RAM, 64GB eMMC storage, and comprehensive connectivity options.

2. PRODUCT OVERVIEW

2.1. Device Features

- **Processor:** Intel Celeron N4020 (2 Cores, 2 Threads, up to 2.80 GHz)
- **Graphics:** Intel UHD Graphics 600
- **Memory:** 4GB DDR4 2133MHz RAM
- **Storage:** 64GB eMMC (expandable via M.2 2242 SATA SSD up to 1TB)
- **Connectivity:** 2.4G/5G WiFi, Bluetooth 5.0, Gigabit Ethernet
- **Video Output:** HDMI 2.0 (4K@60Hz), VGA (4K@30Hz) for dual display support
- **Ports:** USB 3.0, DC Power, RJ45 LAN, Audio Connector
- **Design:** Fanless for silent operation, compact form factor

2.2. Package Contents

Verify that all items are present in the package:

- BOSGAME AG40 Mini PC
- Power Adapter
- HDMI Cable

- VESA Mount with Screws
- User Manual (this document)

Figure 2.2.1: BOSGAME AG40 Mini PC and included accessories.

2.3. Device Layout

Figure 2.3.1: Top-down angled view of the BOSGAME AG40 Mini PC.

Rich interfaces for more possibilities

Figure 2.3.2: Detailed view of the BOSGAME AG40 Mini PC ports and power button.

- **Front Panel:** Power Button, USB 3.0 ports, SD Card Slot (if applicable)
- **Rear Panel:** DC Power Input, USB 3.0 ports, HDMI Port, RJ45 LAN Port, Audio Connector, VGA Port, Clear CMOS button

3. SETUP

3.1. Connecting Peripherals

1. Connect your monitor(s) to the HDMI and/or VGA ports using appropriate cables.
2. Connect your USB keyboard and mouse to the available USB ports.
3. For wired network access, connect an Ethernet cable to the RJ45 LAN port.
4. Connect the power adapter to the DC power input port on the mini PC, then plug the adapter into a power outlet.

3.2. VESA Mount Installation (Optional)

The BOSGAME AG40 supports VESA mounting for attachment to the back of a compatible monitor or a wall

mount. Use the included VESA mount and screws to secure the mini PC.

1. Attach the VESA bracket to the back of your monitor using the provided screws.
2. Slide the mini PC onto the VESA bracket until it clicks into place.

3.3. Initial Power On

Press the power button on the front panel of the mini PC. The device will boot up. Follow any on-screen instructions for initial operating system setup.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off and Restart

- **Power On:** Press the power button.
- **Power Off:** Access the operating system's shutdown menu or press and hold the power button for 5-7 seconds.
- **Restart:** Access the operating system's restart menu.

4.2. Network Connectivity

- **Wired Network:** If an Ethernet cable is connected, the system should automatically detect and connect to the network.
- **Wireless Network (Wi-Fi):** Navigate to your operating system's network settings, select the desired Wi-Fi network, and enter the password if prompted. The device supports 2.4G and 5G Wi-Fi.

4.3. Bluetooth Devices

To connect Bluetooth devices (e.g., keyboard, mouse, headphones), enable Bluetooth in your operating system's settings, search for available devices, and pair them according to their respective instructions.

4.4. Dual Display Setup

The BOSGAME AG40 supports connecting two displays simultaneously via its HDMI and VGA ports. Configure display settings within your operating system to extend or duplicate your desktop.

4.5. BIOS Access

To access the BIOS/UEFI settings, power on the mini PC and repeatedly press the **DEL** or **F2** key during the initial boot sequence. The exact key may vary; consult your operating system's advanced startup options if direct access is difficult.

5. MAINTENANCE

5.1. Cleaning

Regularly clean the exterior of the mini PC with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials. Ensure ventilation holes are free from dust accumulation to maintain optimal fanless cooling performance.

5.2. Software Updates

Keep your operating system and drivers updated to ensure optimal performance and security. Check for updates regularly through your operating system's settings.

5.3. Storage Expansion

The BOSGAME AG40 supports expandable storage via an M.2 2242 SATA SSD (up to 1TB). To install or upgrade storage:

1. Power off the mini PC and disconnect all cables.
2. Carefully open the device casing (refer to the product structure diagram for guidance).
3. Locate the M.2 slot and insert the M.2 2242 SATA SSD.
4. Secure the SSD with the appropriate screw.
5. Close the casing and reconnect cables.

Figure 5.3.1: M.2 2242 SATA SSD for storage expansion.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your BOSGAME AG40 Mini PC.

6.1. No Power

- Ensure the power adapter is securely connected to both the mini PC and a working power outlet.
- Verify the power outlet is functional by plugging in another device.
- Try a different power adapter if available and compatible.

6.2. No Display Output

- Check that the monitor is powered on and set to the correct input source (HDMI/VGA).
- Ensure the HDMI/VGA cable is securely connected to both the mini PC and the monitor.
- Try a different display cable or monitor if possible.
- If using an adapter or converter, ensure it is functioning correctly.

6.3. Wi-Fi Connectivity Issues

- Verify that Wi-Fi is enabled in your operating system's settings.

- Ensure you are connecting to the correct network and entering the password accurately.
- Restart your Wi-Fi router and the mini PC.
- Check for updated Wi-Fi drivers for your operating system.
- Move the mini PC closer to the Wi-Fi router to improve signal strength.

6.4. Slow Performance

- Close unnecessary applications running in the background.
- Ensure your operating system and drivers are up to date.
- Check for sufficient free storage space. Consider expanding storage with an M.2 SATA SSD if needed.
- Perform a system scan for malware or viruses.

7. SPECIFICATIONS

| Feature	Specification
Brand	BOSGAME
Model Name	AG40
Processor	Intel Celeron N4020 (2.8 GHz)
Number of Processors	2
RAM Memory Installed Size	4 GB DDR4 SDRAM
Hard Drive	64 GB eMMC (Solid State)
Graphics Card Description	Integrated (Intel UHD Graphics 600)
Max Screen Resolution	3840x2160
Operating System	OS (Pre-installed Windows 10 Pro mentioned in product description)
Hardware Platform	PC
Connectivity	2.4/5G WiFi, Bluetooth 5.0, Gigabit Ethernet
Ports	HDMI, VGA, USB 3.0, RJ45 LAN, Audio Connector, DC Power
Item Weight	1.21 pounds
Product Dimensions	5 x 5 x 2 inches (12.7 x 12.7 x 5.08 cm)

8. WARRANTY AND SUPPORT

## 8.1. Warranty Information
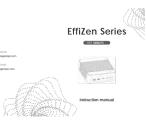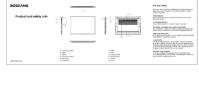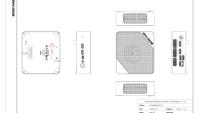
The BOSGAME AG40 Mini PC comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official BOSGAME website for detailed warranty terms and conditions.

8.2. Technical Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your product, please contact BOSGAME customer support. Contact information can typically be found on the official BOSGAME website or on the product packaging.

Related Documents - AG40

	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 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.
	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 EffiZen Series C1 Mini PC Instruction Manual Comprehensive instruction manual for the Bosgame EffiZen Series C1 Mini PC, covering setup, usage, maintenance, and support.
	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.
	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.