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FEVM FA780

FEVM FA780 Mini PC User Manual

Model: FA780 | Brand: FEVM

Introduction

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your FEVM FA780 Mini PC. The FA780 is a high-performance mini computer equipped with an AMD Ryzen 7 7840HS processor, AMD Radeon 780M graphics, 16GB DDR5 RAM, and a 500GB NVMe SSD, designed for both productivity and gaming.

Image: Front view of the FEVM FA780 Mini PC, showcasing its compact design and front-facing ports.

What's in the Box

Upon unpacking your FEVM FA780 Mini PC, please verify that all the following items are included:

- FEVM FA780 Mini PC Host (1 unit)

- Host Stand (1 unit)
- Power Adapter (1 unit)
- HDMI HD Cable (1 unit)
- User Manual (1 unit)

Setup Guide

Follow these steps to set up your FEVM FA780 Mini PC.

1. Connecting Peripherals

1. **Connect Display:** Use the provided HDMI cable to connect your monitor to one of the HDMI ports on the back of the Mini PC. For higher resolutions or additional displays, utilize the USB4 port with a compatible cable (e.g., USB-C to DisplayPort). The device supports up to three displays simultaneously.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into the available USB ports (USB 3.2 or USB 2.0) on the Mini PC.
3. **Connect Power:** Connect the power adapter to the DC-in port on the Mini PC, then plug the adapter into a power outlet.

2. Initial Power On

1. Press the power button located on the front of the Mini PC. The power indicator light will illuminate.
2. The system will boot into Windows 11. Follow the on-screen instructions to complete the initial Windows setup, including language, region, and user account creation.

3. Network Connection

- **Wi-Fi:** During Windows setup or afterward, select your Wi-Fi network from the available list and enter the password. The Mini PC supports Wi-Fi 6 for fast and stable wireless connectivity.
- **Ethernet:** For a wired connection, connect an Ethernet cable from your router or modem to the 2.5 Gigabit RJ45 Ethernet port on the back of the Mini PC.

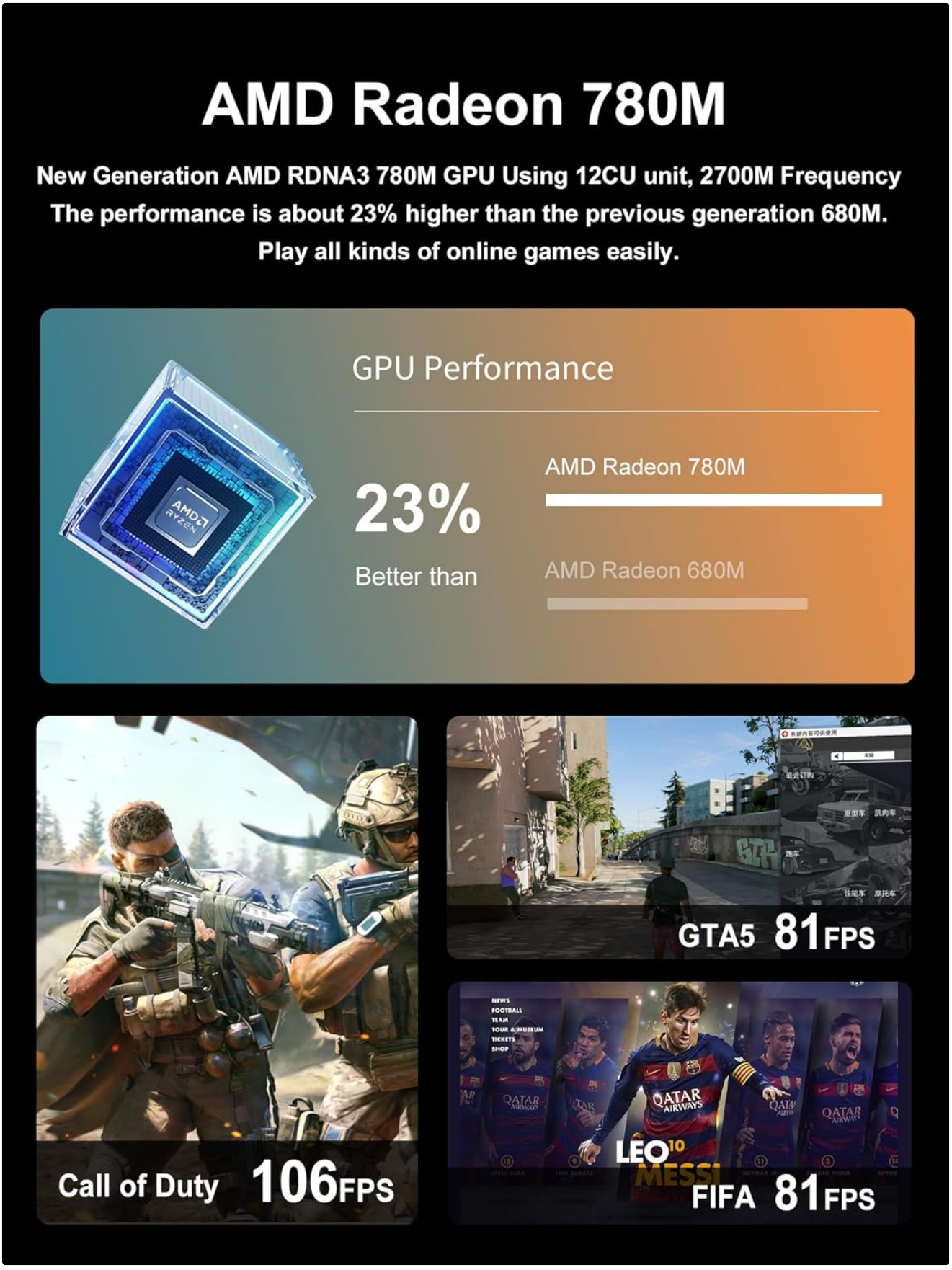

Image: Detailed view of the FEVM FA780 Mini PC's front and rear ports, including USB, HDMI, USB4, and Ethernet connections.

Image: Size comparison of the FEVM FA780 Mini PC next to an iPhone, illustrating its compact footprint.

Operating Instructions

This section covers the general operation of your Mini PC.

1. Multi-Display Configuration

The FEVM FA780 supports up to three independent displays. Connect your monitors using the two HDMI ports and the USB4 port. Once connected, Windows will automatically detect the displays. You can configure display settings (extend, duplicate, or show only on one) via the Windows Display Settings.

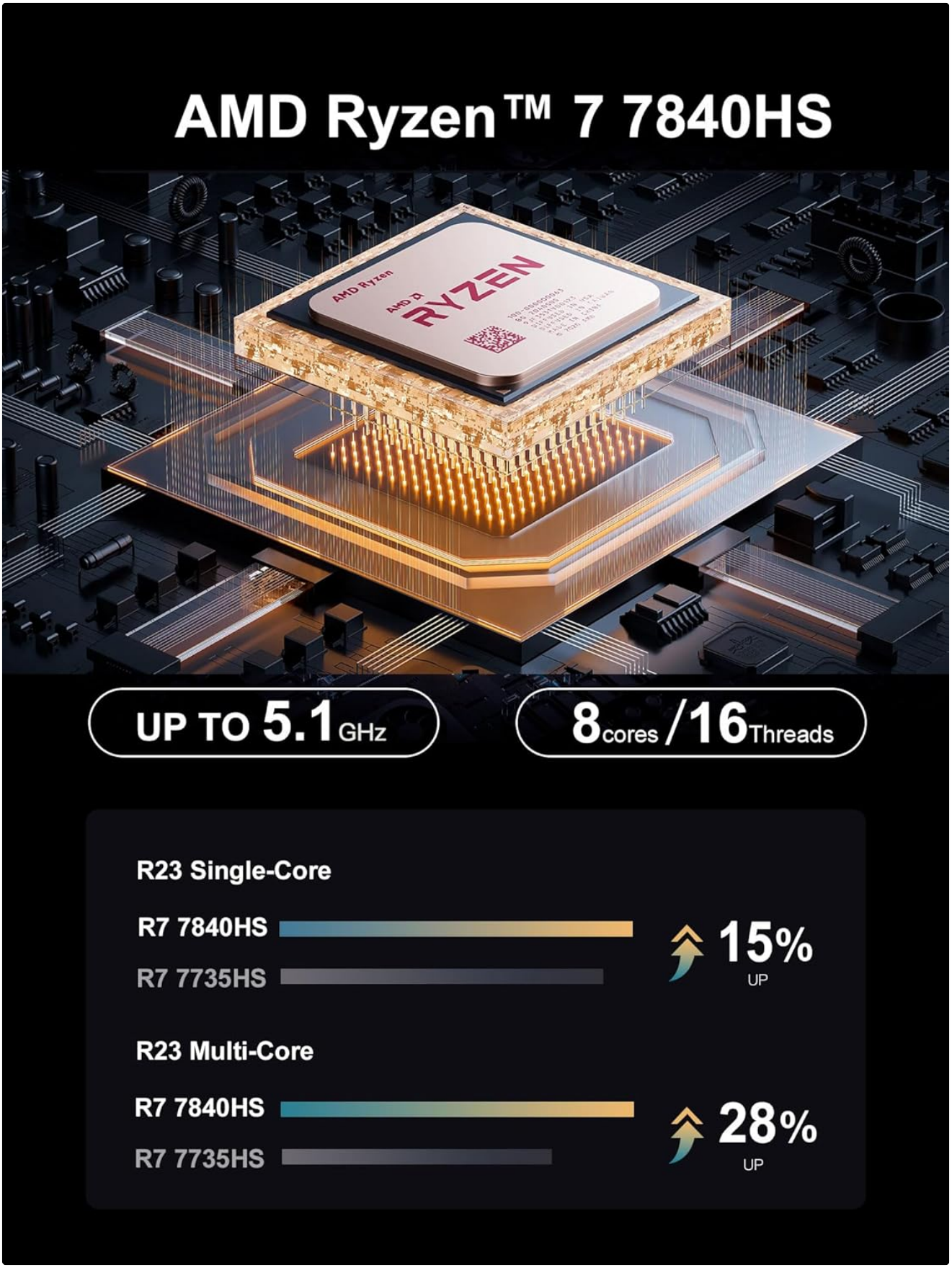

Image: The FEVM FA780 Mini PC connected to three external monitors, demonstrating its multi-display capability.

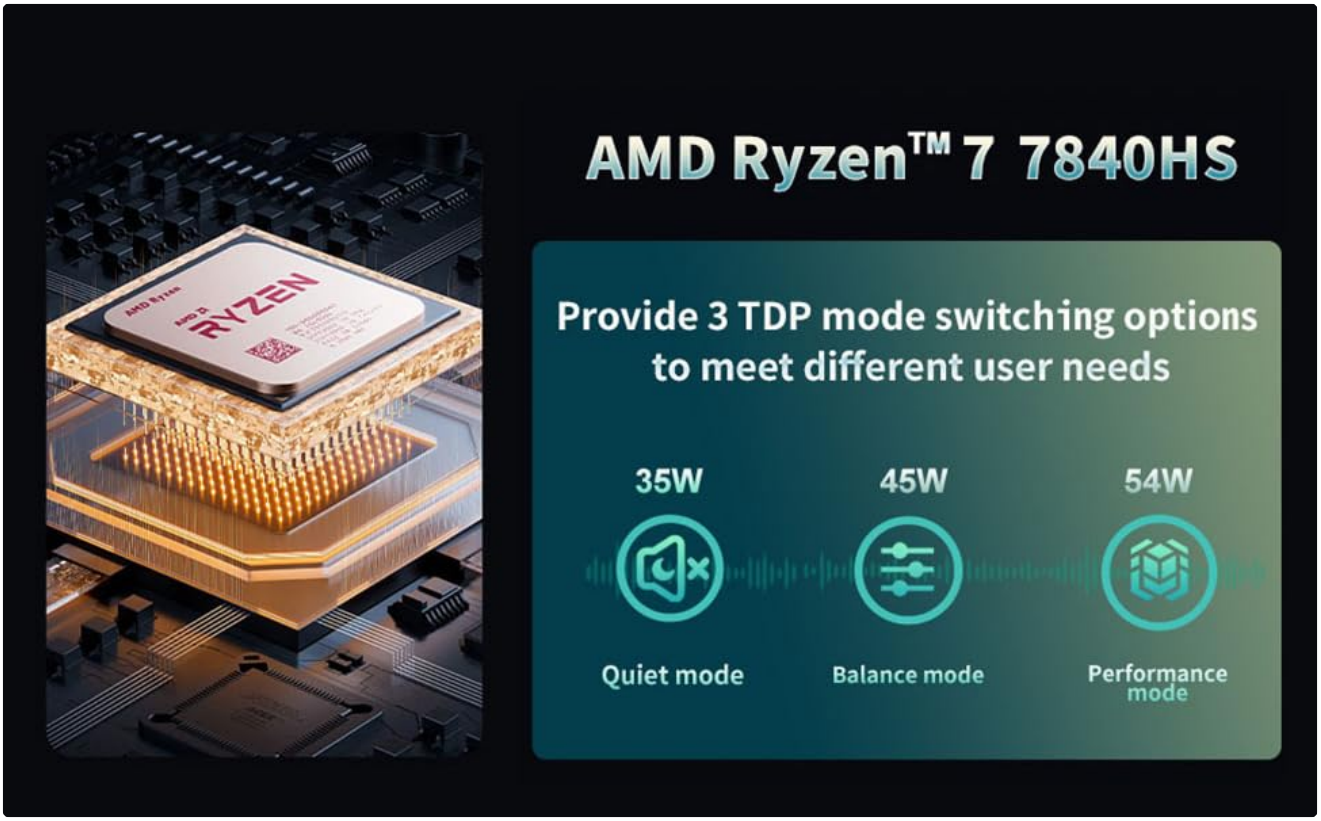

Image: Visual representation of the FEVM FA780 Mini PC's ability to support 4K extended display across three screens, including an 8K@60Hz output via USB4.

2. Performance Modes

The Mini PC offers three TDP (Thermal Design Power) modes to optimize performance and power consumption based on your needs:

- **Quiet Mode (35W):** Ideal for general tasks, web browsing, and media consumption where minimal noise is desired.
- **Balance Mode (45W):** A balanced setting for everyday productivity and moderate workloads.
- **Performance Mode (54W):** Maximizes CPU and GPU performance for demanding applications, gaming, and content creation.

Refer to the system's software or BIOS settings for instructions on how to switch between these modes.

Image: Diagram illustrating the three TDP mode switching options (Quiet, Balance, Performance) available on the FEVM FA780 Mini PC.

3. Gaming and Graphics

The integrated AMD Radeon 780M GPU provides robust graphics performance suitable for a variety of games and graphically intensive applications. Ensure your system drivers are up to date for optimal performance.

Image: Chart comparing the GPU performance of AMD Radeon 780M against AMD Radeon 680M, showing a 23% improvement, alongside screenshots of games running.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your Mini PC.

1. Keeping Vents Clear

The Mini PC relies on proper airflow for cooling. Ensure that the ventilation grilles on the device are not obstructed by dust or other objects. Regularly clean the vents with compressed air to prevent dust buildup.

2. Software Updates

Regularly update your Windows operating system, drivers (especially graphics drivers), and other software. This helps improve system stability, security, and performance.

3. Hardware Upgrades

The FEVM FA780 Mini PC may support upgrades for RAM and NVMe SSD storage. Consult the manufacturer's support resources or a qualified technician before attempting any internal hardware modifications to ensure compatibility and avoid voiding your warranty.

Image: Performance comparison charts for DDR5-5600 RAM versus DDR4-4800, and PCIe 4.0 SSD boot speed versus normal SSD, highlighting speed increases.

Troubleshooting

This section provides solutions to common issues you might encounter.

1. No Display Output

- Ensure the monitor is powered on and correctly connected to the Mini PC via HDMI or USB4.
- Verify the correct input source is selected on your monitor.
- Try a different display cable or monitor if available.

2. System Instability or Crashes

- Ensure the Mini PC has adequate ventilation and is not overheating.
- Update all system drivers, especially graphics and chipset drivers.

- Run a memory diagnostic tool to check for RAM issues.
- If issues persist, consider performing a Windows system restore or reinstall.

3. No Audio Output

- Check audio settings in Windows to ensure the correct output device is selected.
- Verify that speakers or headphones are properly connected to the 3.5mm audio jack or display.
- Update audio drivers. If a specific driver like 'Senary Audio' is mentioned, ensure it is installed and up to date.

4. Network Connectivity Issues

- For Wi-Fi, ensure you are connected to the correct network and the password is accurate.
- For Ethernet, check cable connections and router status.
- Restart your router/modem and the Mini PC.
- Update network adapter drivers.

Specifications

Detailed technical specifications for the FEVM FA780 Mini PC.

Processor	AMD Ryzen 7 7840HS (8 Cores, 16 Threads, up to 5.1GHz)
Graphics	AMD Radeon 780M (12-core, 2700 MHz)
RAM	16GB DDR5 5600MHz (Dual-channel, expandable)
Storage	500GB NVMe SSD (PCIe 4.0, expandable)
Operating System	Windows 11 Pro (Pre-installed)
Video Output	2 x HDMI (4K@60Hz), 1 x USB4 (8K@60Hz, DP1.4)
USB Ports	3 x USB 3.2, 1 x USB 2.0, 1 x USB4 (Full Featured: PD3.0/DP1.4/DATA)
Network	1 x RJ45 2.5 Gigabit Ethernet Port, WiFi 6, Bluetooth 5.2
Audio	1 x 3.5mm Audio Jack
Other Ports	1 x Clear CMOS button
Dimensions (L x W x H)	9.57 x 6.77 x 3.23 inches
Item Weight	2.86 pounds

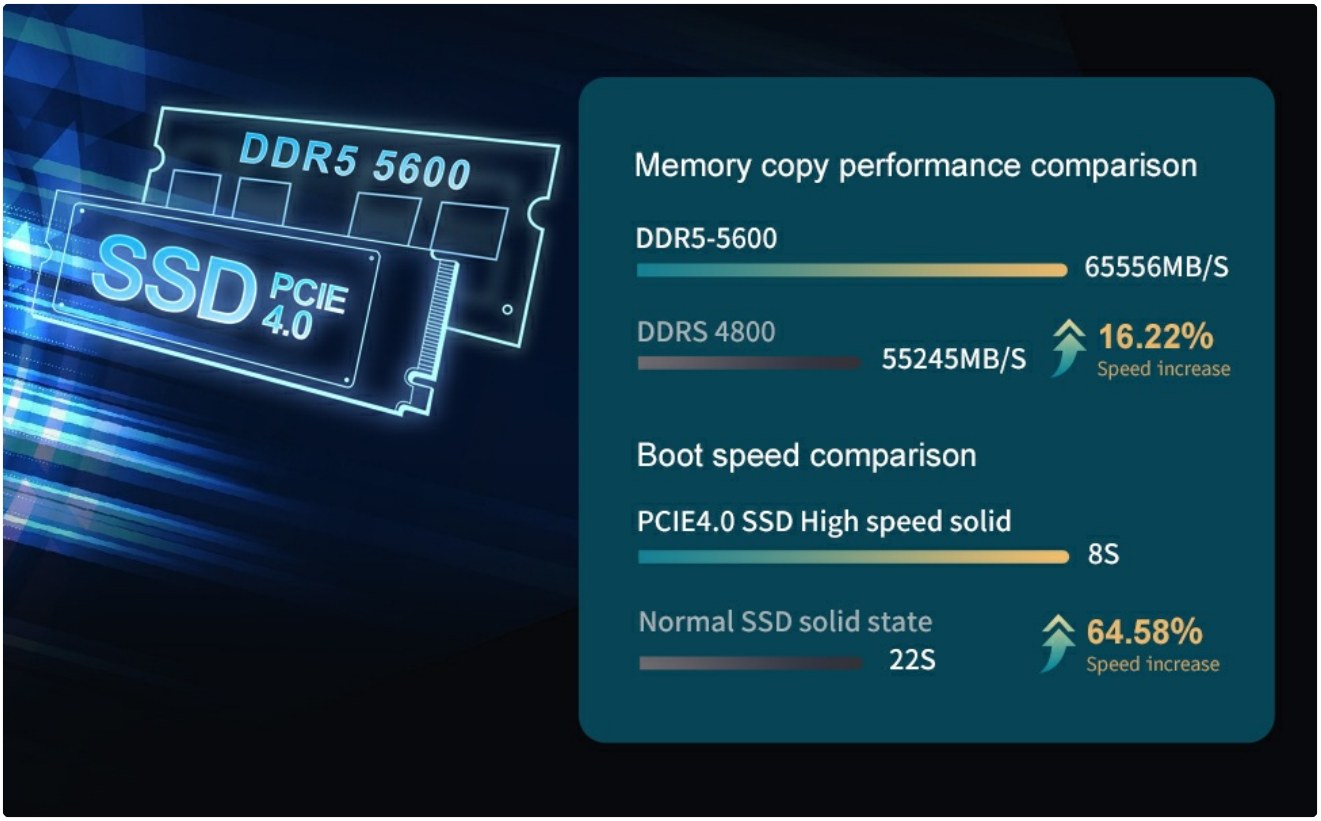

Image: Detailed view of the AMD Ryzen 7 7840HS processor, highlighting its 8 cores, 16 threads, and up to 5.1GHz clock speed.

Warranty and Support

Your FEVM FA780 Mini PC comes with a 1-year warranty from the date of purchase. This warranty covers manufacturing defects and hardware malfunctions under normal use conditions.
For technical assistance, troubleshooting, or warranty claims, please contact FEVM customer support. Refer to the contact information provided in the packaging or on the official FEVM website.

Related Documents - FA780

	FEVM Mini PC FN Series User Manual User manual for the FEVM Mini PC FN Series, covering setup, operation, specifications, and safety precautions.

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