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› [FEVM FA780 Mini PC User Manual - AMD Ryzen 7 7840HS Gaming Mini Computer](#)

FEVM FA780

FEVM FA780 Mini PC User Manual

Model: FA780 | Brand: FEVM

1. INTRODUCTION

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your FEVM FA780 Mini PC. Please read this manual thoroughly before using the device to ensure optimal performance and longevity. The FEVM FA780 is a compact yet powerful mini computer designed for gaming, professional tasks, and daily use, featuring an AMD Ryzen 7 7840HS processor, integrated AMD Radeon 780M graphics, 32GB DDR5 RAM, and a 1TB NVMe SSD.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x FEVM FA780 Mini PC Host
- 1 x Power Adapter
- 1 x HDMI Cable
- 1 x User Manual (this document)
- 1 x Host Stand

3. PRODUCT OVERVIEW

The FEVM FA780 Mini PC is engineered for high performance in a small form factor. Its compact design makes it suitable for various environments, from a home office to a gaming setup.



FA780

AMD Ryzen™ 7 7840HS
8C/16T, UP TO 5.1GHZ



Figure 3.1: The FEVM FA780 Mini PC is significantly smaller than a standard desktop computer, with dimensions of approximately 1.73in (height) x 4.96in (width) x 4.49in (depth).

Key Features:

- **Processor:** AMD Ryzen 7 7840HS (8 Cores/16 Threads, up to 5.1GHz)
- **Graphics:** Integrated AMD Radeon 780M (12 Cores, 2700 MHz)
- **Memory:** 32GB DDR5 RAM (expandable up to 63.99GB)
- **Storage:** 1TB NVMe PCIe 4.0 SSD (supports up to 4TB)
- **Operating System:** Windows 11 Pro
- **Connectivity:** Wi-Fi 6, Bluetooth 5.2, 2.5 Gigabit Ethernet
- **Display Output:** 2 x HDMI (4K@60Hz), 1 x USB4 (8K@60Hz or 4K@144Hz) for triple display support
- **Ports:** 3 x USB 3.2, 1 x USB 2.0, 1 x USB4 (full-function: PD3.0/DP1.4/DATA), 1 x 3.5mm Audio Jack, 1 x Clear CMOS button

Small size, does not take up space

Minicomputers are about one-fortieth the size of standard desktop computers



FA780
1/40x

Desktop computer

1x

Figure 3.2: Front and side view of the Mini PC, highlighting the accessible USB ports and power button.

4k 3 screens extended display

USB4 up to 8K60Hz@4K144Hz



Figure 3.3: Rear view of the Mini PC, displaying the HDMI, USB, Ethernet, and power input ports.

4. SETUP INSTRUCTIONS

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

- 1. Connect to Power:** Plug the power adapter into the DC-in port on the Mini PC, then connect the adapter to a power outlet.
- 2. Connect Display:** Use the provided HDMI cable to connect your monitor or TV to one of the HDMI ports on the Mini PC. For 8K resolution or triple display setup, utilize the USB4 port with a compatible cable and adapter if necessary.

3. **Connect Peripherals:** Connect your USB keyboard and mouse to the available USB ports.
4. **Network Connection (Optional):** For a wired internet connection, connect an Ethernet cable from your router to the 2.5 Gigabit Ethernet port on the Mini PC. For wireless, Wi-Fi 6 is built-in.
5. **Power On:** Press the power button located on the front of the Mini PC. The system will boot into Windows 11 Pro.

5. OPERATING INSTRUCTIONS

5.1 Initial Windows Setup

Upon first boot, you will be guided through the Windows 11 Pro setup process. Follow the on-screen instructions to configure your region, language, network, and user account.

5.2 Multi-Display Configuration

The FEVM FA780 supports up to three displays simultaneously, utilizing its two HDMI ports and one USB4 port. This allows for extended desktop environments for enhanced productivity or immersive gaming.

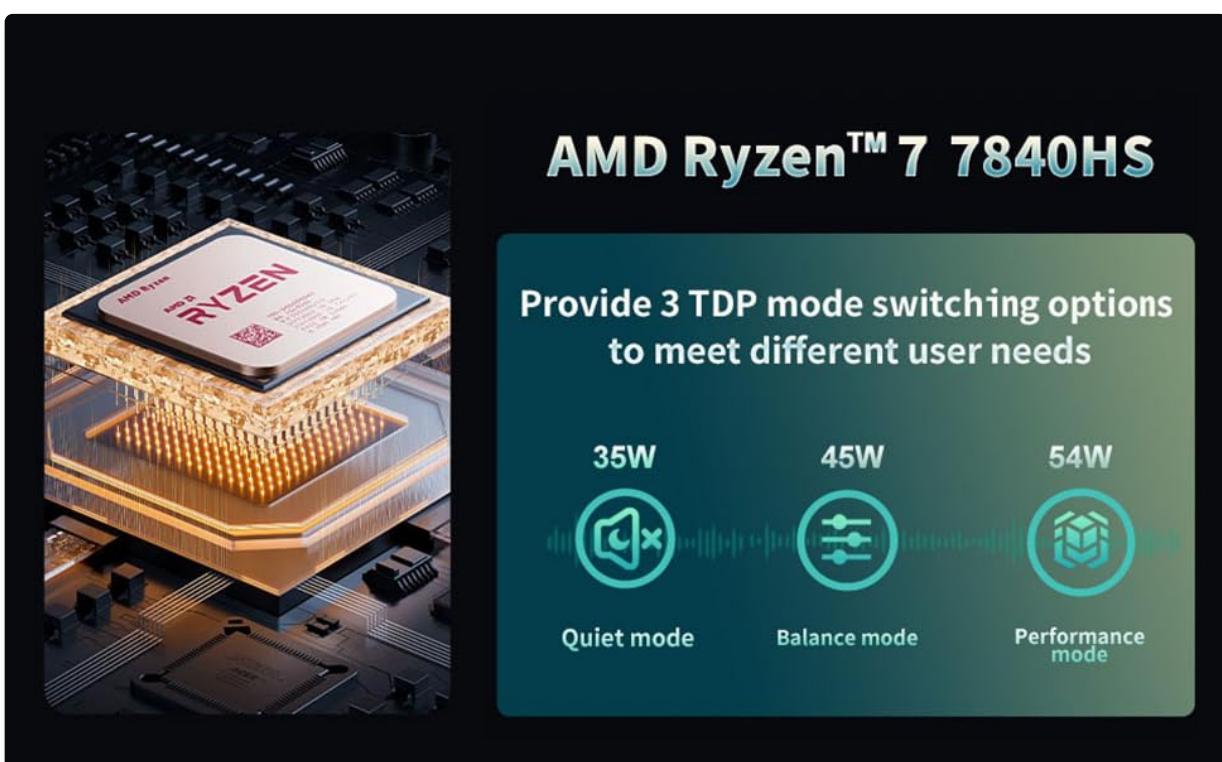


Figure 5.1: The Mini PC supports connecting to three external displays, including 8K@60Hz via USB4.

To configure multiple displays in Windows:

1. Right-click on your desktop and select "Display settings."
2. Windows should detect all connected displays. You can arrange them by dragging and dropping.
3. Select each display and choose your preferred display mode (Extend these displays, Duplicate these displays, Show only on 1, Show only on 2, etc.).

5.3 Wi-Fi and Bluetooth Connectivity

The Mini PC features Wi-Fi 6 for fast wireless internet and Bluetooth 5.2 for connecting wireless peripherals like headphones, keyboards, and mice.

- **Wi-Fi:** Click the network icon in the taskbar, select your Wi-Fi network, enter the password, and connect.
- **Bluetooth:** Go to **Settings > Bluetooth & devices**, turn on Bluetooth, and pair your devices.

5.4 TDP Mode Switching

The FEVM FA780 offers three Thermal Design Power (TDP) modes to balance performance and power consumption according to your needs:

- **Quiet Mode (35W):** Optimized for low noise and power efficiency, suitable for light tasks and media consumption.
- **Balance Mode (45W):** A balanced setting for everyday computing and moderate workloads.
- **Performance Mode (54W):** Maximizes CPU and GPU performance for demanding applications, gaming, and video editing.



Figure 5.2: The Mini PC provides three TDP (Thermal Design Power) modes to adjust performance and noise levels.

To switch between TDP modes, refer to the specific software utility provided by FEVM or check your system's BIOS/UEFI settings. Typically, a dedicated application or a function key combination might be available.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Mini PC.

- **Keep Vents Clear:** Ensure that the ventilation openings on the Mini PC are not obstructed. Blocked vents can lead to overheating and reduced performance.
- **Cleaning:** Use a soft, dry cloth to clean the exterior of the Mini PC. For dust accumulation in vents, use compressed air. Do not use liquid cleaners directly on the device.
- **Software Updates:** Regularly update Windows and device drivers to ensure system stability, security, and performance. Go to **Settings > Windows Update** to check for updates.
- **Storage Management:** Periodically clean up unnecessary files and applications to free up storage

space and maintain system speed.

7. TROUBLESHOOTING

If you encounter issues with your FEVM FA780 Mini PC, refer to the following common troubleshooting steps.

7.1 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.

7.2 No Display Output

- Check that the HDMI or USB4 cable is securely connected to both the Mini PC and the monitor.
- Ensure the monitor is powered on and set to the correct input source (e.g., HDMI 1, HDMI 2, USB-C).
- Try connecting to a different display or using a different cable.
- If using multiple displays, try connecting only one display at a time to isolate the issue.

7.3 Wi-Fi or Bluetooth Connectivity Issues

- Ensure Wi-Fi or Bluetooth is enabled in Windows settings.
- Restart the Mini PC and your router/modem.
- Check for updated network adapter drivers in Device Manager.
- Move the Mini PC closer to the Wi-Fi router or Bluetooth device to improve signal strength.

7.4 System Performance Issues

- Ensure the Mini PC is operating in an appropriate TDP mode (e.g., Performance Mode for demanding tasks).
- Close unnecessary applications running in the background.
- Check Task Manager for processes consuming excessive CPU, RAM, or disk resources.
- Ensure the Mini PC has adequate ventilation and is not overheating.

8. SPECIFICATIONS

Feature	Specification
Brand	FEVM
Model	FA780
Processor	AMD Ryzen 7 7840HS (8 Cores, 16 Threads, up to 5.1GHz)
Graphics	Integrated AMD Radeon 780M (12 Cores, 2700 MHz)
RAM	32GB DDR5 (5600MHz), Max 63.99GB
Storage	1TB NVMe PCIe 4.0 SSD

Operating System	Windows 11 Pro
Wireless Connectivity	Wi-Fi 6 (802.11ax), Bluetooth 5.2
Wired Connectivity	2.5 Gigabit Ethernet (RJ45)
Video Output	2 x HDMI (4K@60Hz), 1 x USB4 (8K@60Hz / 4K@144Hz)
USB Ports	3 x USB 3.2, 1 x USB 2.0, 1 x USB4 (Full-function)
Audio	1 x 3.5mm Audio Jack
Dimensions	1 x 5 x 12 cm
Weight	500 g

9. WARRANTY AND SUPPORT

Your FEVM FA780 Mini PC comes with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact FEVM customer support.

If you have any questions, encounter issues, or require technical assistance, please do not hesitate to contact our customer support team. We are committed to resolving any problems you may experience with your product.

Contact information can typically be found on the FEVM official website or through your purchase platform.