

FANPEEC FA-H4T

FANPEEC FA-H4T Industrial Fanless Mini PC User Manual

Model: FA-H4T

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and specifications of your FANPEEC FA-H4T Industrial Fanless Mini PC. This device is equipped with an Intel Core i7-10610U processor, Windows 11 Pro, 32GB DDR4 RAM, and a 1TB SSD, designed for reliable performance in various industrial and business applications.



Figure 1: Front and rear view of the FANPEEC FA-H4T Industrial Fanless Mini PC.

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- 1 x FANPEEC Mini PC (FA-H4T)

- 4 x WiFi Antennas
- 1 x Power Adapter
- 1 x Power Cord
- 1 x HDMI Cable
- 1 x SATA Cable
- 1 x VESA Bracket (with screws)
- 1 x User Manual



Figure 2: Included accessories and components in the FANPEEC Mini PC package.

3. SETUP GUIDE

3.1 Connecting Peripherals

1. **Connect Display:** Use the provided HDMI cable to connect the Mini PC to your monitor. The device supports triple display output via HDMI, EDP, and Type-C for 4K resolution.
2. **Connect Keyboard and Mouse:** Plug your USB keyboard and mouse into any of the available USB ports. The device features 8 USB ports (4x USB 3.0, 4x USB 2.0).
3. **Connect Network:**
 - **Wired Connection:** Connect an Ethernet cable to one of the two Gigabit LAN ports.
 - **Wireless Connection:** Attach the provided WiFi antennas to the designated ports on the rear of the device. Once powered on, configure WiFi settings within the operating system.
4. **Connect Power:** Connect the power adapter to the DC IN port on the Mini PC and then plug the power cord into an electrical outlet.

Rich Ports Meet Daily Needs

8*USB 2*Gigabit Lan 6*RS232 COM



Figure 3: Rear panel connections including audio, LAN, USB, HDMI, DP, and DC IN ports.

3.2 Initial Power On

Press the power button on the front of the Mini PC. The system will boot into Windows 11 Pro. Follow the on-screen instructions for initial setup, including language, region, and user account creation.

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Video 1: An overview of the FANPEEC Fanless Mini PC H4-T, demonstrating its features and compact design.

4. OPERATING INSTRUCTIONS

4.1 Operating System

The FANPEEC FA-H4T comes pre-installed with Windows 11 Pro. It also supports other operating systems

such as Windows 10, Linux (Ubuntu, CentOS, OPNsense), providing flexibility for various applications.

Support Multiple Systems

Pre-installed Windows 11 Pro, Support Windows 10/Linux
(Ubuntu,centos,Opnsense,Etc)







Figure 4: The Mini PC is compatible with various operating systems including Windows 11 Pro, Windows 10, and Linux distributions.

4.2 Multi-Display Setup

The Mini PC supports up to three independent displays simultaneously, with 4K resolution output via HDMI, EDP, and Type-C. This feature is ideal for surveillance panels, digital signage, and multi-tasking environments.

Multi-Function Multiple Slots

Stay Connected Anywhere with Advanced Network Options

-  2*DDR4 260Pin SODIMM (Max 64GB)
-  1*SATA3.0 (for 2.5 inch HDD/SSD) (Max 6TB)
-  1*M.2 2280 SSD (Max 2TB)
-  1* SIM Slot Suitable for Nano-SIM Card

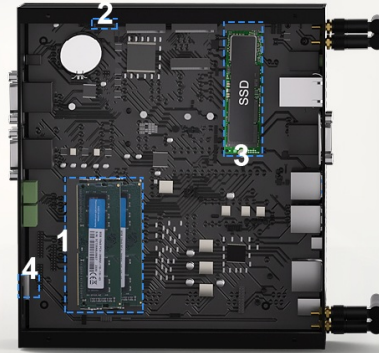


Figure 5: Example of a triple display setup, enhancing work efficiency and visual monitoring capabilities.

4.3 Auto Power On Feature

The device supports an Auto Power On feature, allowing it to automatically power on after a power loss. This is crucial for industrial applications requiring continuous operation.

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Video 2: Instructions on how to enable the Auto Power On feature for industrial PCs, ensuring automatic restart after power interruptions.

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Video 3: A guide to setting up the auto power on function for BASOARO BAH6, applicable to similar industrial mini PCs.

5. MAINTENANCE AND UPGRADES

5.1 RAM, SSD, and HDD Installation/Upgrade

The FANPEEC FA-H4T Mini PC offers flexible upgrade options for RAM, SSD, and HDD to enhance its storage capacity and performance. Always ensure the device is powered off and disconnected from the power source before performing any internal modifications.

- Accessing Internal Components:** Use a screwdriver to remove the four screws on the bottom cover to access the motherboard.
- RAM Installation:** Locate the two 260-pin SODIMM slots. Carefully insert the DDR4 RAM modules (up to 64GB total) into the slots until they click into place.
- SSD Installation:** The device supports M.2 2280 NVMe/SATA SSDs (up to 2TB). Insert the SSD into the M.2 slot and secure it with the provided screw.
- HDD Installation:** A 2.5-inch HDD/SSD (up to 6TB) can be installed. Secure the drive to the bottom cover using screws and connect it to the motherboard via the SATA cable.
- WiFi Module Installation:** Locate the WiFi module slot. Insert the compatible WiFi module and connect the antennas firmly.
- Reassembly:** Reattach the bottom cover and tighten the screws.

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Video 4: A step-by-step tutorial on installing memory and hard disk drives in the FANPEEC Fanless PC H4T.

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Video 5: A comprehensive guide to upgrading and expanding RAM, WiFi module, SSD, and HDD in a WEIDIAN Mini PC.

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Video 6: Instructions on how to install memory, hard disk, and WiFi module in a Mini PC.

6. SPECIFICATIONS

Feature	Detail
Processor	Intel Core i7-10610U (4 cores, 8 threads, up to 4.9GHz)
RAM	32GB DDR4 (2x SODIMM slots, up to 64GB)
Storage	1TB SSD (M.2 2280 NVMe/SATA, up to 2TB) + 2.5-inch HDD/SSD slot (up to 6TB)
Graphics	Intel UHD Graphics 630 (Integrated)
Display Output	HDMI, EDP, Type-C (Supports triple 4K display)
Network	WiFi5, Bluetooth 4.2, 2x Gigabit Ethernet (RJ45)
USB Ports	4x USB 3.0, 4x USB 2.0
Serial Ports	6x COM ports (configurable as RS232/485/422)
Other Ports	2x CAN ports, 2x GPIO interfaces, SIM card slot (for 4G/5G module, not installed by default)
Operating System	Windows 11 Pro
Cooling	Fanless design with all-aluminum body
Dimensions	9.06 x 7.17 x 2.56 inches
Weight	4.18 pounds
Special Features	TPM 2.0, Wake-on-LAN, Auto-Start, Dust-proof, Moisture-proof, Shockproof, Wide Temperature (-10°C to 50°C)



Figure 6: Overview of the Mini PC's advanced features including low power, 24/7 operation, TPM 2.0, and auto power on.

7. TROUBLESHOOTING

If you encounter issues with your FANPEEC FA-H4T Mini PC, consider the following general troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working electrical outlet. Check the power cord for any damage.
- **No Display:** Verify that the display cable (HDMI, EDP, or Type-C) is securely connected to both the Mini PC and the monitor. Ensure the monitor is powered on and set to the correct input source. Try a different display cable or monitor if available.
- **System Not Booting:** If the system does not boot into the operating system, try accessing the BIOS/UEFI settings (usually by pressing DEL or F2 during startup) to check boot order or hardware detection.
- **Network Connectivity Issues:** For wired connections, check the Ethernet cable and router/modem status. For wireless connections, ensure WiFi antennas are properly attached and the correct network password is entered.
- **Performance Issues:** Ensure the operating system and drivers are up to date. Check for excessive background processes or insufficient storage space.

For persistent issues, refer to the support information in the next section.

8. WARRANTY AND SUPPORT

Your FANPEEC FA-H4T Industrial Fanless Mini PC is covered by the manufacturer's warranty. For technical support, warranty claims, or any inquiries, please contact FANPEEC customer service.

Contact Information:

- **Seller:** Fanpeec Mini PC
- **Support Email:** fanpeec_service@126.com
- **Amazon Support:** Log in to your Amazon account, find your order, and click "Get Help".

FANPEEC is committed to providing excellent performance and customer satisfaction.

FANPEEC Fanless Mini PC

Powerful Core i7-10610U Processor

4 Cores 4.9 GHz 8 MB Cache 8 Threads

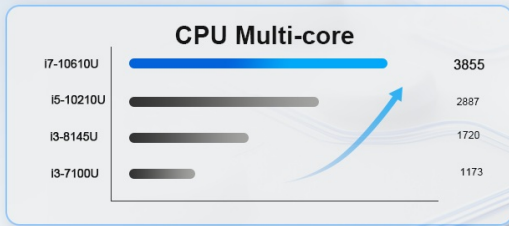


Figure 7: FANPEEC customer support details for assistance.