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HISTTON P12-i7-4500U

HISTTON Fanless Mini PC User Manual

Model: P12-i7-4500U

1. INTRODUCTION

This manual provides essential information for the setup, operation, and maintenance of your HISTTON Fanless Mini PC, Model P12-i7-4500U. This industrial-grade mini computer is designed for reliable performance in various environments, featuring a fanless design for silent operation and reduced dust intake. It supports both Windows 10 Pro and Linux Ubuntu operating systems.

2. WHAT'S IN THE BOX

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

- 1 x HISTTON Fanless Mini PC (P12-i7-4500U)
- 1 x Power Adapter (with power cord suitable for your region)
- 1 x User Manual
- 2 x Wi-Fi Antennas
- 1 x Set of SATA power and data cables (for 2.5" hard drive installation)



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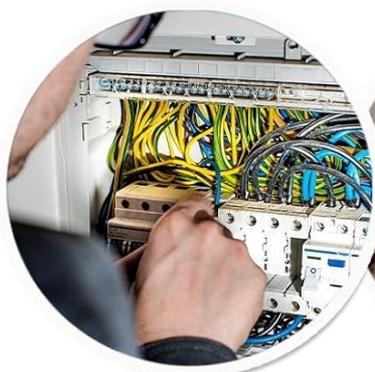


Image: The package contents include the Mini PC, power adapter, user manual, Wi-Fi antennas, and SATA cables.

3. PRODUCT OVERVIEW

The HISTTON Fanless Mini PC P12-i7-4500U features a robust aluminum housing and a comprehensive set of ports for various industrial and commercial applications.

3.1 Front Panel Ports



OS

Windows 7/8/10
and all kind Linux OS



Intel Core i5-4258U
Intel Core i7-4500U



DDR3 up to 8GB
MSATA+SATA



Gigabit 1000M LAN

Image: The front panel of the Mini PC features six COM ports (COM1-COM6), with COM1 and COM2 supporting RS232/422/485, and four USB ports (two USB 3.0 and two USB 2.0), alongside a power button.

The front panel provides the following connectivity options:

- **6 x RS232 COM Ports:** For serial communication with industrial equipment. COM1 and COM2 support RS232/422/485 protocols.
- **2 x USB 3.0 Ports:** For high-speed data transfer.
- **2 x USB 2.0 Ports:** For connecting peripherals.
- **Power Button:** To power on/off the device.

3.2 Rear Panel Ports



Image: The rear panel includes audio input/output, additional USB ports, dual LAN ports, HDMI, VGA, and two Wi-Fi antenna connectors.

The rear panel offers additional connectivity:

- **Audio Input/Output:** 3.5mm jacks for microphone and headphones/speakers.
- **2 x USB 3.0 Ports:** Additional high-speed USB ports.
- **2 x RJ45 LAN Ports:** Dual Gigabit Ethernet for network connectivity.
- **HDMI Port:** For digital video output, supporting up to 4K resolution.
- **VGA Port:** For analog video output.
- **DC IN 12V:** Power input port.
- **Wi-Fi Antenna Connectors:** For attaching the included Wi-Fi antennas.

3.3 Internal Components and Design

Intel Core i7-4500U Processor

4M Cache, up to 3.0GHz

Processor Base Frequency 1.8GHz

Max Turbo Frequency 3.0GHz

Intel Core i5-4258U Processor

3M Cache, up to 2.9GHz

Processor Base Frequency 2.4GHz

Max Turbo Frequency 2.9GHz

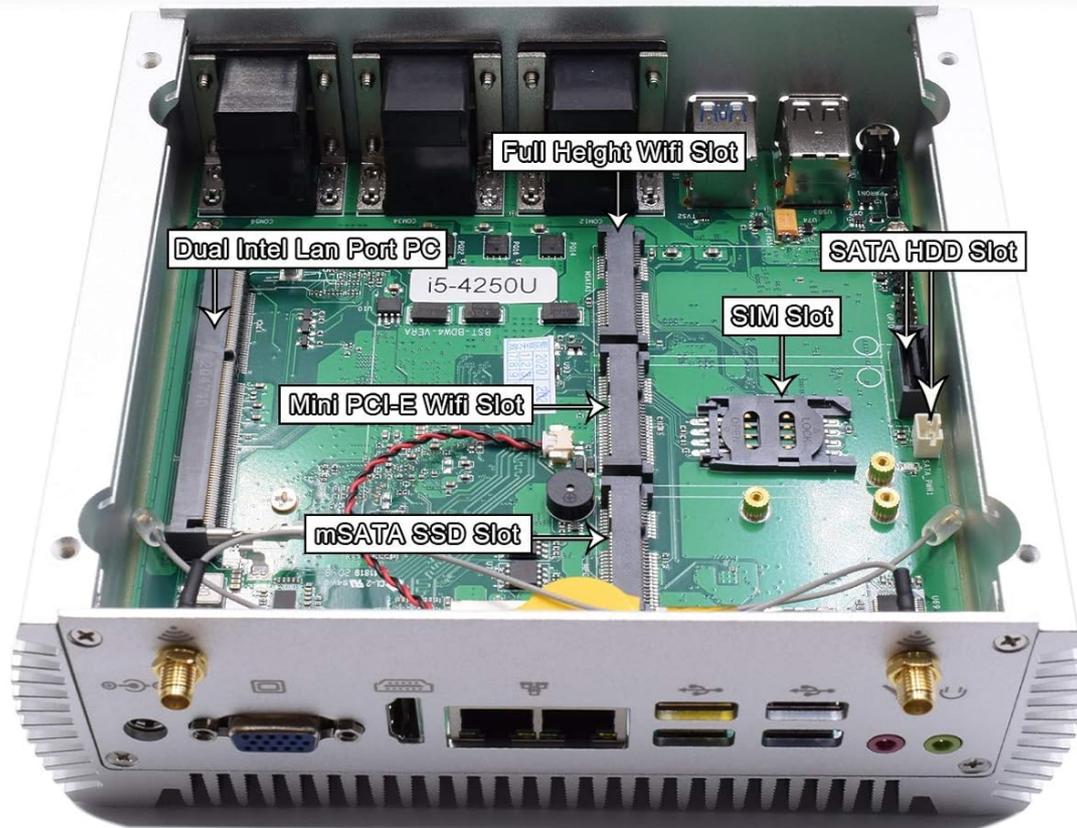


Image: An internal view of the Mini PC's motherboard highlights the Full Height WiFi Slot, Mini PCI-E WiFi Slot, SIM Slot, mSATA SSD Slot, SATA HDD Slot, and DDR3 Memory Slot.

The internal design supports flexible storage and expansion:

- **DDR3 Memory Slot:** Supports up to 8GB DDR3 RAM.
- **mSATA SSD Slot:** For mSATA Solid State Drives.
- **SATA HDD Slot:** For 2.5-inch SATA HDDs or SSDs.
- **Mini PCI-E WiFi Slot & Full Height WiFi Slot:** For wireless connectivity modules.
- **SIM Slot:** For cellular connectivity (requires compatible module).

The fanless design, utilizing the aluminum casing as a heatsink, ensures silent operation and enhanced durability by preventing dust accumulation, making it suitable for industrial environments.

The alloy casing makes the computer more robust and more upscale.

Small Size
Dust-Proof
Easy to install

Fanless Design



Image: The side view emphasizes the ribbed aluminum casing for passive cooling and integrated mounting holes for easy installation.

3.4 Dual Display Support

VGA+HDMI

Two Monitor to Extend Your Desktop Display From the Same Fanless Mini PC



Image: The Mini PC supports dual monitor output via its VGA and HDMI ports, allowing for extended desktop displays up to 4K resolution.

The Mini PC supports connecting two monitors simultaneously via HDMI and VGA ports, enabling an extended desktop display for increased productivity.

3.5 Product Video Overview

Your browser does not support the video tag.

Video: This video provides a detailed look at the HISTTON Fanless Mini Industrial PC, showcasing its various ports, fanless design, and general usage scenarios, including gaming and connectivity demonstrations.

4. SETUP

Follow these steps to set up your HISTTON Fanless Mini PC:

1. **Connect Antennas:** Screw the two Wi-Fi antennas onto the connectors on the rear panel of the Mini PC.
2. **Connect Display:** Connect your monitor(s) to the HDMI and/or VGA ports on the rear panel.
3. **Connect Peripherals:** Plug in your USB keyboard and mouse into any available USB ports.
4. **Connect Network (Optional):** For wired network access, connect an Ethernet cable to one of the RJ45 LAN ports.

5. **Connect Power:** Connect the power adapter to the DC IN 12V port on the rear panel, then plug the power cord into an electrical outlet.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- **To Power On:** Press the power button located on the front panel. The power indicator light will illuminate.
- **To Power Off:** For a safe shutdown, use the operating system's shutdown function (e.g., Start > Power > Shut down in Windows). Alternatively, press and hold the power button for 5 seconds to force a shutdown (use only when necessary).

5.2 Operating System

Your Mini PC comes pre-installed with Windows 10 Pro or can support Linux Ubuntu. Follow the on-screen instructions for initial setup of the operating system. Ensure all drivers are installed for optimal performance.

5.3 BIOS Settings

To access the BIOS/UEFI settings, press the **DEL** key repeatedly during startup. This allows configuration of boot options, hardware settings, and other system parameters.

6. MAINTENANCE

To ensure the longevity and optimal performance of your fanless Mini PC, consider the following maintenance tips:

- **Dust Removal:** Although fanless, dust can still accumulate on the heatsink fins. Periodically use compressed air to gently clean the exterior fins to maintain efficient heat dissipation.
- **Environmental Conditions:** Operate the PC within the recommended temperature range of 0°C to 70°C and humidity range of 10% to 85%. Avoid direct sunlight or placement near heat sources.
- **Software Updates:** Regularly update your operating system and drivers to ensure security and performance.
- **Physical Inspection:** Periodically check all cable connections to ensure they are secure.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
PC does not power on	No power supply; Faulty power adapter/cable	Check power cable connections; Ensure power outlet is functional; Test with another power adapter if available.
No display on monitor	Loose video cable; Incorrect input source on monitor; Monitor off	Ensure video cables (HDMI/VGA) are securely connected; Select correct input source on monitor; Power on monitor.
No network connection	Loose Ethernet cable; Wi-Fi antennas not connected; Driver issues	Check Ethernet cable; Ensure Wi-Fi antennas are securely attached; Verify network drivers are installed and updated in the OS.

Problem	Possible Cause	Solution
System is slow or unresponsive	Overheating; Too many applications running; Low disk space	Ensure proper ventilation around the PC; Close unnecessary applications; Free up disk space; Check for background processes.

If problems persist after attempting these solutions, please contact customer support.

8. SPECIFICATIONS

Below are the detailed technical specifications for the HISTTON Fanless Mini PC P12-i7-4500U:

Feature	Specification
Processor	Intel Core i7-4500U (1.8 GHz, up to 3.0 GHz, 4 MB Cache)
Graphics	Intel HD Graphics 4400 (Integrated)
RAM	8 GB DDR3 SDRAM (Supports up to 8GB, 1 x 204-pin SO-DIMM socket)
Storage	512 GB SSD (Supports 1 x 2.5 inch SATA HDD/SSD, 1 x mSATA SSD)
Operating System	Windows 10 Pro / Linux Ubuntu
Video Output	HDMI (up to 4K), VGA (Dual Display Support)
LAN	2 x Gigabit RJ45 LAN Ports
USB Ports	4 x USB 3.0, 2 x USB 2.0
Serial Ports	4 x RS232 COM, 2 x RS232/422/485 COM
Wireless	2.4 GHz Radio Frequency (Wi-Fi)
Audio	Audio Input/Output (3.5mm jacks)
Power Supply	DC 12V
Dimensions (LxWxH)	8.27 x 5.91 x 2.48 inches (210 x 150 x 63 mm)
Material	Aluminum Housing
Operating Temperature	0°C to 70°C
Operating Humidity	10% - 85%

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official HISTTON website. Keep your proof of purchase for warranty claims.