

## HISTTON P12-B-i7-10510U

# HISTTON Fanless Industrial Mini PC Intel Core i7-10510U User Manual

Model: P12-B-i7-10510U

## 1. INTRODUCTION

---

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

## 2. PACKAGE CONTENTS

---

Verify that all items listed below are included in your product package:

- 1 x HISTTON Mini PC
- 1 x Power Adapter
- 1 x User Manual
- 1 x HDMI Cable
- 1 x DVD for drivers (if applicable)



**Applications** Factory/Surveillance Center/Bank/Hospital, etc.



Figure 2.1: Included accessories and the Mini PC.

### 3. PRODUCT OVERVIEW

Familiarize yourself with the various ports and features of your HISTTON Mini PC.

#### 3.1 Rear Panel Ports

# Aluminum Alloy

## Fanless CPU cooling design



Figure 3.1: Rear panel connectivity options.

- **GPIO (General Purpose Input/Output):** 7 input and 7 output ports for industrial control.
- **COM Ports (RS232/422/485):** 4 ports for serial communication.
- **USB 3.0 Ports:** 4 ports for high-speed peripheral connections.
- **LAN Ports (RJ45 Gigabit Ethernet):** 2 ports for wired network connectivity.
- **HDMI Port:** For digital video and audio output.
- **VGA Port:** For analog video output.
- **DC In:** 3-pin Phoenix terminal for DC 9-36V power input.
- **WiFi Antenna Connectors:** For external WiFi antennas.

### 3.2 Side Panel Ports

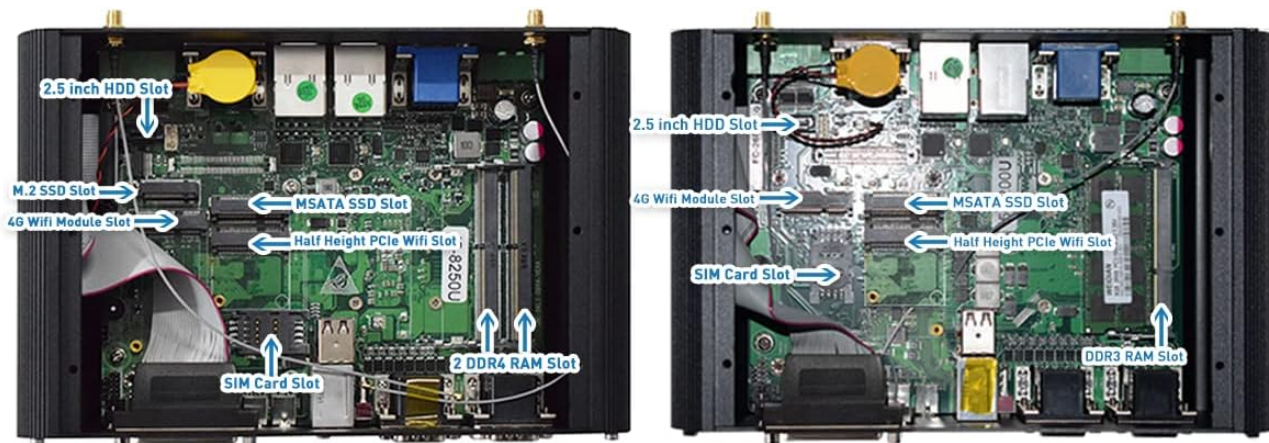


Figure 3.2: Side panel connectivity and controls.

- **Power On/Off Switch:** Main power control.
- **USB 2.0 Ports:** 2 ports for peripheral connections.
- **Audio Jacks:** 1 x SPK Out (speaker), 1 x MIC In (microphone).
- **PS/2 Port:** For legacy keyboard and mouse connections.
- **ATX/AT Switch:** For power mode selection.
- **CMOS Button Hole:** For resetting CMOS settings.

### 3.3 Internal Components





For 4th Gen processors, the motherboard will go with single DDR3 memory slot only, other 6/7/8/10th gen processors, there will be dual DDR4 memory slot and support memory up to 64GB.



Figure 3.3: Internal layout for storage and memory expansion.

- **M.2 SSD Slot:** For M.2 solid-state drives.
- **mSATA SSD Slot:** For mSATA solid-state drives.
- **2.5 inch HDD Slot:** For 2.5-inch SATA SSD/HDD.
- **DDR4 RAM Slots:** Two 260-pin SO-DIMM slots supporting up to 64GB DDR4 memory.
- **WiFi Module Slot:** M.2 slot for dual-band 802.11AC WiFi with Bluetooth 4.0.

## 4. SETUP INSTRUCTIONS

Follow these steps to set up your Mini PC for first use.

1. **Connect Peripherals:** Connect your monitor(s) to the HDMI and/or VGA ports. Connect a USB keyboard and mouse to the available USB ports.
2. **Network Connection:** For wired internet, connect an Ethernet cable to one of the RJ45 LAN ports. For wireless internet, attach the provided WiFi antennas to the connectors on the rear panel.
3. **Power Connection:** Connect the power adapter to the DC In port on the rear panel, then plug the adapter into a power outlet.
4. **Power On:** Press the power button on the side panel to turn on the Mini PC. The power indicator light will

## 5. OPERATING SYSTEM AND BASIC USE

Your Mini PC comes with Windows 10 Pro 64bit pre-installed and activated, ready for immediate use.

### 5.1 Dual Display Setup

The Mini PC supports dual display output via HDMI and VGA ports, allowing for extended desktop or mirrored display configurations. Connect two monitors to the respective ports and configure display settings within the Windows operating system.



Figure 5.1: Dual monitor setup for enhanced productivity.

### 5.2 General Operation

The Intel Core i7-10510U processor and Intel UHD Graphics provide stable and efficient performance for various tasks, including office applications, web browsing, multimedia playback, and light gaming. The integrated M.2 Dual Band 802.11AC WiFi with Bluetooth 4.0 ensures reliable wireless connectivity.

## 6. MAINTENANCE

The HISTTON Mini PC features a fanless cooling design, which contributes to its durability and silent operation. This design minimizes dust accumulation and reduces the need for frequent internal cleaning.



Figure 6.1: Fanless cooling system for silent and reliable operation.

To maintain optimal performance:

- Keep the exterior of the device clean by wiping it with a soft, dry cloth.
- Ensure adequate airflow around the device, especially around the heat sink fins, to facilitate heat dissipation.
- Avoid placing the Mini PC in direct sunlight or near heat sources.
- Do not obstruct the heat sink fins.

## 7. TROUBLESHOOTING

---

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

- **No Power:** Ensure the power adapter is securely connected to both the Mini PC and a working power outlet. Check if the power indicator light is on.
- **No Display:** Verify that the monitor cable(s) are securely connected to both the Mini PC and the monitor(s). Ensure the monitor is powered on and set to the correct input source (HDMI/VGA).
- **No Internet Connection:** For wired connections, check the Ethernet cable and router status. For wireless connections, ensure WiFi antennas are attached, WiFi is enabled in the operating system, and you are connected to the correct network.
- **Peripherals Not Working:** Ensure USB devices (keyboard, mouse) are properly connected. Try connecting them to different USB ports.
- **System Unresponsive:** Press and hold the power button for 5-10 seconds to force a shutdown, then restart the device. If issues persist, consider resetting the CMOS using the button hole on the side panel (refer to Section 3.2).

## 8. SPECIFICATIONS

---

Detailed technical specifications for the HISTTON Fanless Industrial Mini PC:

Feature	Specification
Processor (CPU)	Intel Core i7-10510U, 1.80 GHz (up to 4.90 GHz), 8M Cache
Graphics	Intel UHD Graphics for 10th Gen Intel Processors

Feature	Specification
Memory (RAM)	64GB DDR4 (2 x 32GB SO-DIMM slots, max 64GB)
Storage	1TB SSD (Supports M.2 SSD + mSATA SSD + 2.5 inch SATA SSD/HDD)
Operating System	Windows 10 Pro (64bit, activated)
Wireless Connectivity	M.2 Dual Band 802.11AC WiFi with Bluetooth 4.0
LAN	2 x Intel L211/210 RJ45 Gigabit Ethernet
USB Ports	4 x USB 3.0, 2 x USB 2.0
Video Output	1 x HDMI, 1 x VGA Port (Supports 4K UHD dual display)
Serial Ports	4 x RS232/422/485 COM, 2 x RS232 COM
GPIO	7 x Ports Input, 7 x Ports Output
Audio	1 x SPK Out, 1 x MIC In
Power Supply	12V DC In (3-pin Phoenix terminal DC 9-36V Input)
Power Consumption	Max 15W (real use), TDP Down 10W
Case Material	Aluminum Alloy
Dimensions (LxWxH)	9.45 x 6.30 x 3.39 inches
Weight	5.07 lb (Net weight)
Operating Temperature	0 °C to 70 °C
Operating Humidity	10% - 85%

## 9. WARRANTY AND SUPPORT

For warranty information and technical assistance, please use the following contact methods:




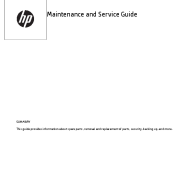

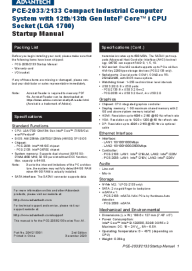


Figure 9.1: Support contact details.

- **Amazon Support:** Log in to your Amazon account, navigate to 'Your Account' > 'Your Orders', and select 'Ask Product Question' for assistance.
- **After-Sales Support:** For direct technical support, you may send an email to the After-Sales Team at [minipc\\_service@yeah.net](mailto:minipc_service@yeah.net). This service is available 24/7.

**Warning:** Please connect the power supply correctly. Keep away from damp and high-temperature environments, as well as sources of fire and water. Parents should strictly control kids' device time and content access.



Related Documents - P12-B-i7-10510U

	<p><a href="#">HISTTON Mini PC User Manual: Setup, Features, and Warranty Guide</a></p> <p>Detailed user manual for the HISTTON Mini PC, covering unboxing, setup instructions, port descriptions, basic features, power management, and comprehensive warranty policy. Find information on product care and support.</p>
	<p><a href="#">HP EliteBook 830 G7 Maintenance and Service Guide</a></p> <p>Comprehensive guide for the HP EliteBook 830 G7 Notebook PC, covering product description, components, illustrated parts catalog, removal and replacement procedures for both customer self-repair and authorized service provider parts, computer setup (BIOS, TPM, HP Sure Start), backing up, restoring, recovering, HP PC Hardware Diagnostics, and specifications.</p>
	<p><a href="#">HP EliteBook 840 G10 Maintenance and Service Guide</a></p> <p>Comprehensive maintenance and service guide for the HP EliteBook 840 G10 Notebook PC, detailing component identification, removal/replacement procedures, system recovery, BIOS settings, specifications, and troubleshooting for optimal device care.</p>
	<p><a href="#">Advantech PCE-2033/2133 Industrial Computer Startup Manual</a></p> <p>Startup manual for the Advantech PCE-2033/2133 Compact Industrial Computer System, featuring 12th/13th Gen Intel® Core™ i CPU Socket (LGA 1700). Details specifications, packing list, jumper/connector functions, and board layouts.</p>
	<p><a href="#">Lenovo ThinkPad E14 Gen 5 (21JK00C3YA) Product Specifications</a></p> <p>Comprehensive technical specifications for the Lenovo ThinkPad E14 Gen 5 laptop, covering performance, display, connectivity, security, environmental factors, and certifications. Model: 21JK00C3YA.</p>
	<p><a href="#">HP Computer User Guide - N31630-004</a></p> <p>Comprehensive user guide for HP computers, covering setup, features, troubleshooting, diagnostics, specifications, and accessibility. Includes information on HP PC Hardware Diagnostics, recovery options, and system care.</p>