QIO TECH Antminer S19j pro 100T

Antminer S19j pro 100T ASIC Bitcoin Miner User Manual

Model: Antminer S19j pro 100T | Brand: QIO TECH

1. Introduction

This manual provides essential information for the safe and efficient operation of your QIO TECH Antminer S19j pro 100T ASIC Bitcoin Miner. Please read this manual thoroughly before installation and use to ensure proper setup, optimal performance, and to prevent damage to the device or injury to yourself.

2. Safety Information

Your safety and the proper functioning of the miner are paramount. Adhere to the following safety guidelines:

- **Voltage Requirement:** The Antminer S19j pro 100T requires a **220V AC input voltage**. Connecting to an incorrect voltage (e.g., 110V) will cause severe damage to the miner and may pose a fire hazard.
- **Power Supply:** Use only the included or a compatible power supply unit designed for this miner. Ensure all power connections are secure before powering on.
- **Ventilation:** Ensure adequate airflow around the miner. Do not block the intake or exhaust vents. Operate in a well-ventilated area to prevent overheating.
- **Environment:** Keep the miner away from water, moisture, dust, and extreme temperatures. Operate within recommended environmental conditions.
- **Handling:** Handle the miner with care. Avoid dropping or subjecting it to strong impacts.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified electrician or IT professional.

3. Product Overview

The Antminer S19j pro 100T is a high-performance ASIC miner designed for Bitcoin (BTC) cryptocurrency mining. It features an integrated power supply and an efficient air cooling system.

Components

- **Miner Unit:** The main housing containing the hash boards and control board.
- **Integrated Power Supply:** Provides power to the miner.

- **Cooling Fans:** Multiple fans for efficient heat dissipation.
- **Ethernet Port:** For network connectivity.
- **Power Input Ports:** For connecting the 220V AC power cables.



Figure 3.1: Front view of the Antminer S19j pro 100T, highlighting the large cooling fans on the left and the power input ports on the right.



Figure 3.2: Rear view of the Antminer S19j pro 100T, displaying the product information label and the 'BITMAIN' logo at the bottom.



Figure 3.3: Angled view of the Antminer S19j pro 100T, providing a perspective of its compact design with the cooling fans visible on the left side.



Figure 3.4: Top-down view of the Antminer S19j pro 100T, illustrating the arrangement of the control board, fan cables, and network port.

4. Setup

Follow these steps to set up your Antminer S19j pro 100T:

1. **Unpacking:** Carefully remove the miner from its packaging. Inspect for any visible damage during transit.
2. **Placement:** Place the miner on a stable, flat surface in a well-ventilated area. Ensure there is at least 20 cm (8 inches) of clear space around all sides for proper airflow. Avoid enclosed spaces.
3. **Network Connection:** Connect one end of an Ethernet cable to the Ethernet port on the miner and the other end to your network router or switch.
4. **Power Connection: IMPORTANT:** Ensure your power source provides a stable 220V AC. Connect the power cables to the power input ports on the miner. Ensure connections are firm and secure.
5. **Initial Power On:** Once all connections are secure, plug the power cables into the 220V AC outlets. The miner will begin its boot sequence.

5. Operating Instructions

After initial setup, you will need to configure the miner for operation.

5.1. Accessing the Miner Interface

1. **Find IP Address:** Use an IP scanner tool on your network (e.g., Advanced IP Scanner, Angry IP Scanner) to find the IP address assigned to your Antminer. The device name usually appears as 'Antminer' or 'Bitmain'.
2. **Login:** Open a web browser and enter the miner's IP address in the address bar. You will be prompted for a username and password (default is usually 'root' for both).

5.2. Configuring Mining Pool Settings

Once logged in, navigate to the 'Miner Configuration' or 'Pool Settings' section.

- **Pool URL:** Enter the URL of your chosen Bitcoin mining pool (e.g., stratum+tcp://us.pool.com:3333).
- **Worker Name:** Enter your worker name (e.g., username.worker1).
- **Password:** Enter the password for your worker (often 'x' if not specified by the pool).
- **Save & Apply:** Save the settings. The miner will restart its mining process with the new configuration.

Monitor the 'Miner Status' page to ensure the miner is connected to the pool and hashing correctly.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Antminer.

- **Dust Removal:** Periodically clean dust from the fans and heatsinks using compressed air. Ensure the miner is powered off and unplugged before cleaning.
- **Environmental Control:** Maintain a cool, dry, and dust-free environment. High humidity and dust can damage internal components.
- **Firmware Updates:** Check the official Bitmain website for firmware updates. Apply updates as recommended to improve performance and security. Follow update instructions carefully.
- **Cable Inspection:** Regularly inspect power and Ethernet cables for any signs of wear or damage. Replace damaged cables immediately.

7. Troubleshooting

Common issues and their solutions:

Problem	Possible Cause	Solution
Miner not powering on	Incorrect voltage, loose power cables, faulty power supply	Verify 220V input. Check all power cable connections. Test with a known good power cable.
No network connection	Loose Ethernet cable, router issue, incorrect IP settings	Ensure Ethernet cable is securely connected. Restart router. Check miner's network settings.
Low hash rate or no hashing	Incorrect pool settings, network issues, overheating, faulty hash board	Verify pool URL, worker name, and password. Check network stability. Ensure proper ventilation. Contact support if hash board failure is suspected.
Overheating	Poor ventilation, dusty fans, high ambient temperature	Improve airflow around the miner. Clean fans and heatsinks. Move to a cooler environment.

8. Specifications

Technical specifications for the Antminer S19j pro 100T:

- **Model Name:** Antminer S19j pro 100T
- **Brand:** QIO TECH
- **Compatible Devices:** Personal Computer (for monitoring and configuration)
- **Connector Type:** ATX (for internal power supply connections)
- **Output Wattage:** 2950 Watts
- **Form Factor:** [INF-ATX]
- **Wattage:** 2950 watts
- **Cooling Method:** Air
- **Power Supply Design:** Internal
- **PCI-Express Connector Configuration:** 20+4 Pin
- **Input Voltage:** 220V AC (Required)

9. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or contact QIO TECH customer service. Please note that improper voltage input will void the warranty and may cause irreversible damage.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question