OEMGMINER S19k Pro 120T

Antminer S19k Pro 120T ASIC Bitcoin Miner User Manual

Model: S19k Pro 120T | Brand: OEMGMINER

1. Introduction

This manual provides comprehensive instructions for the safe and efficient operation, maintenance, and troubleshooting of your Antminer S19k Pro 120T ASIC Bitcoin Miner. Please read this manual thoroughly before operating the device to ensure optimal performance and longevity.

2. Product Overview

The Antminer S19k Pro 120T is a high-efficiency ASIC miner designed for Bitcoin (BTC) and other SHA256-based cryptocurrency mining. It features a powerful hash rate of 120 TH/s and an energy consumption ratio of 23 J/TH, making it a robust solution for professional mining operations.

2.1 Key Features

- **High Hash Rate:** 120 TH/s for efficient Bitcoin mining.
- **Energy Efficiency:** Revolutionary 23 W/TH power consumption ratio.
- **Integrated PSU:** Includes a power supply unit for convenience.
- **Robust Design:** Engineered for continuous 24/7 operation with enhanced heat dissipation.
- **Global Compatibility:** Supports 220V standard industrial voltage (requires 110V to 220V transformer in some regions like USA).

2.2 Product Components and Dimensions



Figure 2.2.1: Front and side view of the Antminer S19k Pro 120T, showing the cooling fans and power input ports. The device is designed for optimal airflow and heat management.

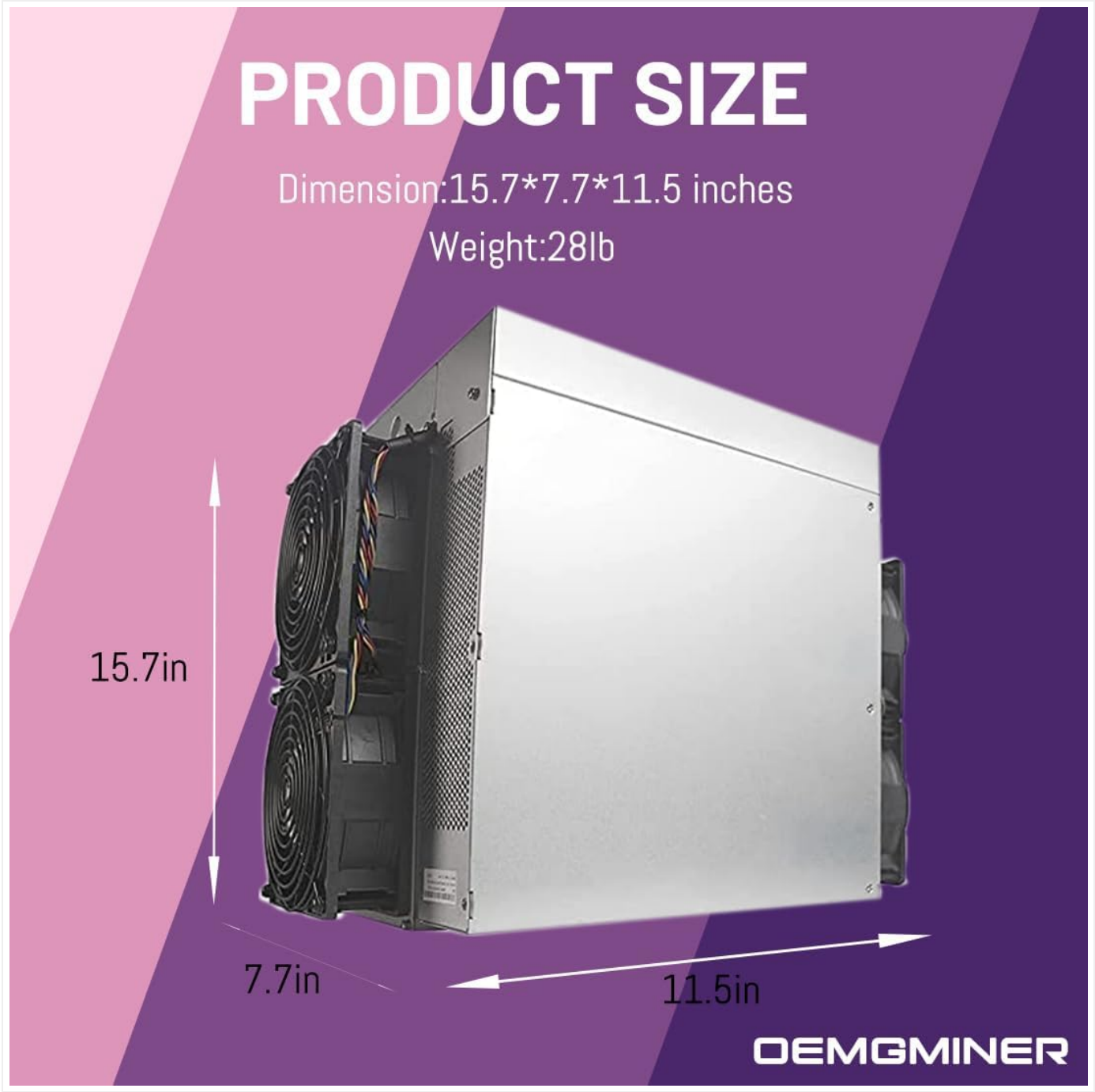


Figure 2.2.2: Dimensions of the Antminer S19k Pro 120T. The unit measures approximately 15.7 inches in length, 7.7 inches in width, and 11.5 inches in height, with a weight of 28 lbs.



Figure 2.2.3: Detailed specifications of the Antminer S19k Pro 120T, including hash rate, power consumption, power efficiency, supported cryptocurrencies, and environmental operating conditions.

3. Setup

Proper setup is crucial for the stable operation of your Antminer. Follow these steps carefully.

3.1 Environmental Requirements

- **Temperature:** Operate within 0°C to 40°C (32°F to 104°F).
- **Humidity:** Maintain relative humidity between 10% and 90% (non-condensing).
- **Ventilation:** Ensure adequate airflow around the miner. Do not obstruct air intake or exhaust vents.
- **Noise Level:** The miner operates at approximately 75dB. Consider its placement to minimize noise impact.

3.2 Power Supply Connection

The Antminer S19k Pro 120T requires a 220V standard industrial voltage power supply. If your region uses 110V (e.g.,

USA), a step-up transformer (110V to 220V) is required and must be purchased separately. Ensure the transformer can handle the miner's 2760W power consumption with sufficient overhead.

1. Connect the provided power cables to the miner's power input ports.
2. Connect the other end of the power cables to a compatible 220V power outlet or a suitable step-up transformer.
3. Ensure all connections are secure to prevent power interruptions or damage.

3.3 Network Connection

The miner connects to your network via an Ethernet cable.

1. Connect one end of an Ethernet cable to the miner's Ethernet port.
2. Connect the other end to your router or network switch.
3. Ensure a stable internet connection for mining pool communication.

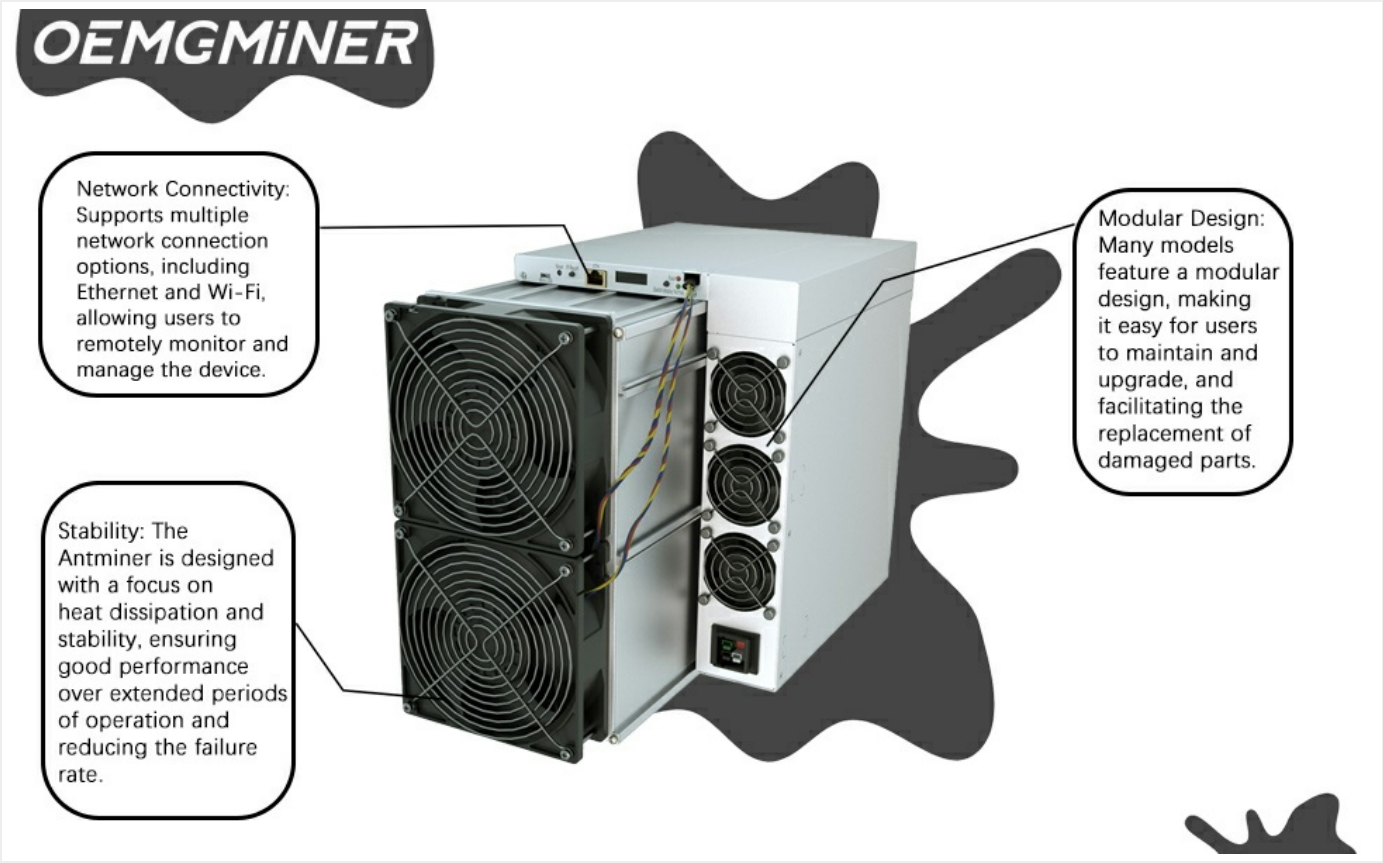


Figure 3.3.1: Illustration of the Antminer's network connectivity options (Ethernet) and its modular design, which aids in maintenance and upgrades.

4. Operating Instructions

Once the miner is physically set up, you can configure it for mining.

4.1 Initial Power On

1. After all cables are securely connected, power on the miner.
2. Allow a few minutes for the miner to boot up and acquire an IP address from your network.

4.2 Accessing the Miner Interface

You can access the miner's web interface to configure mining settings.

1. Use an IP scanner tool (e.g., Advanced IP Scanner) on a computer connected to the same network to find the

miner's IP address.

2. Open a web browser and enter the miner's IP address in the address bar.
3. Log in using the default credentials (usually 'root' for both username and password, or as specified in a separate quick start guide).

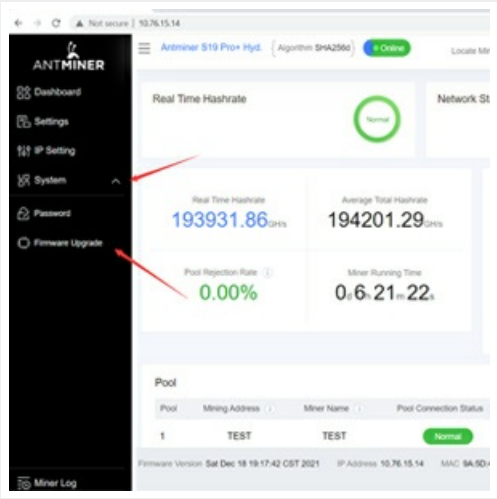


Figure 4.2.1: Example of the Antminer's web interface, where you can monitor real-time hash rate, configure mining pools, and manage settings.

4.3 Configuring Mining Pool Settings

Navigate to the 'Miner Configuration' or 'Pool Settings' section in the web interface.

1. Enter the URL of your chosen Bitcoin mining pool (e.g., stratum+tcp://btc.pool.com:3333).
2. Enter your Worker Name (usually your mining pool username.workername).
3. Enter the Password for your worker (often 'x' or a specific password set on the pool).
4. You can configure up to three mining pools for redundancy.
5. Save the settings and restart the miner if prompted.

The miner should now begin hashing and contributing to your chosen mining pool.

5. Maintenance

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

5.1 Cleaning

- Periodically clean dust from the cooling fans and heat sinks using compressed air.
- Ensure the miner is powered off and unplugged before cleaning.
- Do not use liquid cleaners or abrasive materials.

5.2 Firmware Updates

- Check the official OEMGMINER or Bitmain website for the latest firmware updates.
- Firmware updates can improve performance, stability, and security.
- Follow the specific instructions provided with the firmware update package carefully.

5.3 Environmental Monitoring

- Continuously monitor the ambient temperature and humidity to ensure they remain within recommended operating

ranges.

- High temperatures can lead to reduced performance and component degradation.

6. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Miner not powering on	Loose power cable, incorrect voltage, faulty PSU	Check all power connections. Ensure 220V supply. Test PSU if possible.
No hash rate / Offline	Network issue, incorrect pool settings, faulty hash board	Verify Ethernet connection. Check pool URL, worker name, and password. Restart miner. Check miner logs for hash board errors.
High temperature warnings	Poor ventilation, dusty fans, high ambient temperature	Improve airflow in the mining area. Clean fans and heat sinks. Reduce ambient temperature.
Miner making unusual noises	Fan malfunction, loose components	Inspect fans for obstructions or damage. Ensure all internal components are secure.

7. Specifications

Detailed technical specifications for the Antminer S19k Pro 120T.

- **Model:** Antminer S19k Pro 120T
- **Algorithm:** SHA256 (BTC/BCH/BSV)
- **Hash Rate:** 120 TH/s (±5%)
- **Power Consumption:** 2760 W (±5%)
- **Power Efficiency:** 23 J/TH (±5%)
- **AC Input Voltage:** 200-240V AC
- **AC Input Frequency Range:** 47-63 Hz
- **AC Input Current:** 20 A
- **Operating Temperature:** 0°C to 40°C
- **Operating Humidity:** 10% to 90% (non-condensing)
- **Dimensions (L*W*H):** 400mm * 195.5mm * 290mm (approx. 15.7 x 7.7 x 11.5 inches)
- **Weight:** 12.85 kg (approx. 28 lbs)
- **Cooling:** Air cooling, 4 fans
- **Network Connection:** Ethernet

8. Warranty and Support

OEMGMINER provides support and warranty for your Antminer S19k Pro 120T.

- **Warranty Period:** 1-year warranty from the date of purchase.
- **Official Authorization:** This product is covered by OEMGMINER Official Authorization.
- **Technical Support:** Real-time response from the technical team is available for assistance.

- **Contact:** For support inquiries, please refer to the contact information provided with your purchase or visit the OEMGMINER Store on Amazon.

Note: Actual mining income is affected by currency price and difficulty factor. Customers may be responsible for import taxes and fees depending on local regulations. Please confirm local regulations and electricity configuration before placing an order.

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