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Antminer Z11 Equihash Miner and APW7 PSU User Manual

Model: Z11 | Brand: Antminer (by QIO TECH)

1. INTRODUCTION

This manual provides essential instructions for the setup, operation, and maintenance of your Antminer Z11 Equihash Miner, accompanied by the Bitmain APW7 1800W Power Supply Unit (PSU). The Antminer Z11 is designed for mining Zcash (ZEC) and other cryptocurrencies utilizing the Equihash algorithm.

Important Financial Risk Disclosure:

Cryptocurrency mining involves significant financial risks. These risks include, but are not limited to, fluctuations in cryptocurrency exchange rates and changes in mining algorithms. Users are advised to carefully consider these risks before making a purchase or engaging in mining activities. Please note that refund requests for this product are not accepted.

2. SAFETY INFORMATION

Adherence to the following safety guidelines is crucial for safe operation and to prevent damage to the equipment or personal injury:

- **Electrical Safety:** The Antminer Z11 and APW7 PSU operate at high power. Ensure all electrical connections are secure and properly grounded. Use power outlets capable of handling the combined 1800W output of the PSU.
- **Ventilation:** The miner generates significant heat. Operate the device in a well-ventilated area to prevent overheating. Maintain clear airflow around the intake and exhaust fans.
- **Operating Environment:** Avoid operating the miner in environments with high humidity, dust, or extreme temperatures. Recommended operating temperature is between 5°C and 35°C.
- **Handling:** Handle the miner and PSU with care. Avoid dropping or subjecting them to physical shock.
- **Power Cord:** Use only the provided power cord or a suitable replacement that meets local electrical standards.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon unpacking:

- 1x Antminer Z11 Miner Unit
- 1x Bitmain APW7 1800W Power Supply Unit (PSU)
- 1x Power Cord (may be included as a complimentary item)

4. PRODUCT OVERVIEW

The Antminer Z11 is a dedicated Equihash ASIC miner, designed for high-efficiency Zcash mining. It features a robust casing with integrated cooling fans and a control board for network connectivity and configuration. The accompanying Bitmain APW7 PSU provides stable and sufficient power for the miner's operation.



Image 1: The Antminer Z11 miner unit shown alongside the Bitmain APW7 power supply unit. The miner is a rectangular silver box with two large fans on the left side, while the PSU is a smaller rectangular silver box with multiple power cables extending from

it.



Image 2: A side view of the Antminer Z11 miner unit. This perspective highlights the perforated metal side panels designed for heat dissipation and the overall compact form factor of the mining device.



Image 3: A close-up view of the Bitmain APW7 1800W Power Supply Unit. The image clearly shows the 'BITMAIN' logo, the power input port, and the numerous PCIe power cables extending from the unit, ready for connection to the miner.

5. SETUP INSTRUCTIONS

- 1. Unpacking and Inspection:** Carefully remove the Antminer Z11 and APW7 PSU from their packaging. Inspect both units for any visible damage that may have occurred during shipping.
- 2. Placement:** Choose a stable, level surface in a well-ventilated area. Ensure there is adequate space around the miner for proper airflow, especially near the intake and exhaust fans. Avoid placing the unit near heat sources or in enclosed spaces.
- 3. Connecting the PSU to the Miner:**
 - Locate the PCIe power connectors on the APW7 PSU.
 - Connect the PCIe power cables from the APW7 PSU to the corresponding power ports on the Antminer Z11 hash boards and control board. Ensure all connectors are fully seated and secure.

Each hash board typically requires multiple PCIe connectors.

4. **Network Connection:** Connect one end of an Ethernet cable to the Ethernet port on the Antminer Z11's control board and the other end to your network router or switch.
5. **Power Connection:** Connect the power cord to the APW7 PSU's power input. Then, plug the other end of the power cord into a grounded electrical outlet that can support the required wattage.

6. OPERATING INSTRUCTIONS

1. **Power On:** Once all connections are secure, flip the power switch on the APW7 PSU to the 'ON' position. The miner's fans will start, and indicator lights will illuminate.
2. **Initial Configuration:**
 - **Find IP Address:** Use an IP scanner tool on your network or check your router's connected devices list to find the IP address assigned to the Antminer Z11.
 - **Access Web Interface:** Open a web browser on a computer connected to the same network and enter the miner's IP address into the address bar.
 - **Login:** Enter the default username and password (refer to official Antminer documentation if unknown, typically 'root' for both).
 - **Configure Mining Pool:** Navigate to the 'Miner Configuration' or 'Settings' section. Enter your chosen mining pool's URL, worker name, and password. Save the settings.
3. **Monitoring:** After configuration, the miner will begin hashing. Monitor its performance through the web interface, checking the hash rate, temperature of the hash boards, and fan speeds to ensure optimal operation.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Antminer Z11:

- **Dust Removal:** Periodically clean dust from the miner's fans, heatsinks, and casing using compressed air or a soft brush. Dust accumulation can impede cooling and lead to overheating.
- **Environmental Control:** Continuously monitor and maintain the recommended operating temperature and humidity levels in the mining environment.
- **Firmware Updates:** Check the official Antminer website for any available firmware updates. Firmware updates can improve performance, stability, or security. Follow the manufacturer's instructions carefully when performing updates.

8. TROUBLESHOOTING

This section addresses common issues you might encounter:

- **Miner Not Powering On:**

- Ensure the power cord is securely connected to both the PSU and the electrical outlet.
- Verify the PSU's power switch is in the 'ON' position.
- Check the electrical outlet for power.

- **Low Hash Rate or No Hash Rate:**

- Confirm the Ethernet cable is properly connected and your network is active.
- Verify mining pool settings (URL, worker name, password) are correctly entered in the web interface.
- Check the temperature of the hash boards; overheating can cause performance throttling.

- **Overheating:**

- Ensure the miner is in a well-ventilated area with clear airflow.
- Clean any dust from the fans and heatsinks.
- Verify that all fans are operating correctly.

- **Network Connection Issues:**

- Check the Ethernet cable for damage and ensure it's securely plugged in.
- Restart your router or network switch.
- Confirm the miner's IP address is valid and not conflicting with other devices.

9. SPECIFICATIONS

Feature	Specification
Mining Hash Rate	135k Sol/s ± 5%
Power Consumption	1418W ± 10%
PSU Output Wattage	1800 Watts
Cooling Method	Air Cooling
Item Weight	10 Kilograms (22 pounds)
Compatible Devices	Personal Computer (for monitoring/configuration)
UPC	779149065095
Date First Available	September 3, 2019

10. WARRANTY AND SUPPORT

Please be aware of the seller's policy regarding this product: **returns and refunds are not accepted for this miner.** This policy is in place due to the volatile nature of cryptocurrency markets and mining profitability.

For technical support or specific inquiries regarding the Antminer Z11, it is recommended to:

- Contact the seller, QIO TECH, for assistance with your purchase.
- Refer to the official Bitmain website for the latest documentation, firmware, and community support related to Antminer products.