Complete Guide to the Dragonball A11 (3.2 TH/s)

Introduction

The **Dragonball A11** is a high-performance ASIC miner designed for maximum profitability in mining **Radiant (RXD)** and **Alephium (ALPH)**. Released in September 2024, this powerful machine offers a **hashrate of 3.2 TH/s** for **RXD** and **1.2 TH/s** for **Alephium (ALPH)**, with a relatively low power consumption of **2300W**. It uses the **RXD_SHA512256D** and **BLAKE3** algorithms, making it an ideal choice for miners looking to profit from these cutting-edge cryptocurrencies. With its compact design and exceptional performance, the **Dragonball A11 Radiant Miner** is an attractive option for both individual miners and mining farms.

This guide provides an in-depth look at the technical specifications, mining capabilities, setup, maintenance tips, and how to optimize the use of your **Dragonball A11 Radiant Miner** to achieve the best possible returns.

Technical Specifications of the Dragonball A11 Radiant Miner

Main Features

Feature	Details
Manufacturer	DragonBall
Model	A11 Radiant
First Release	September 2024
Mining Algorithm	RXD_SHA512256D, BLAKE3
Maximum Hashrate	RXD: 3.2 TH/s ± 5%, ALPH: 1.2 TH/s ± 5%
Power Consumption	2300W ± 5%
AC Input Voltage	110-240V AC
Interface	RJ45 Ethernet 10/100M
Dimensions	475 mm x 294 mm x 384 mm
Weight	14.5 kg
Operating Temperature	0°C - 40°C
Operating Humidity	10% - 90%

- **Power Consumption**: With a power requirement of **2300W ± 5%**, the Dragonball A11 is relatively energy-efficient for its performance, particularly when compared to miners with higher hash rates.
- **Compact Design**: Despite its high performance, the Dragonball A11 has a compact form factor with dimensions of **475 mm x 294 mm x 384 mm** and weighs **14.5 kg**, making it easy to install in most mining setups.
- **Cooling**: Adequate cooling is necessary to prevent overheating, especially when running at high power. The device is designed to operate optimally between **0°C and 40°C**.

Mineable Coins

The **Dragonball A11 Radiant Miner** supports mining the following cryptocurrencies:

Cryptocurrency	Symbol	Algorithm
Radiant	RXD	RXD_SHA512256D
Alephium	ALPH	BLAKE3

- **Radiant (RXD)**: A cutting-edge cryptocurrency that uses the **RXD_SHA512256D** algorithm.
- **Alephium (ALPH)**: A popular coin in the crypto world using the **BLAKE3** algorithm.

Both algorithms are known for their efficiency in ASIC mining, and the **Dragonball A11 Radiant Miner** excels in processing these algorithms at high speeds.

Where to Buy the Dragonball A11 Radiant Miner (3.2 TH/s)

Purchase Options

You can purchase the **Dragonball A11 Radiant Miner** directly from **Dragonball**'s official store or through authorized resellers. Always ensure you are buying from trusted sources to guarantee product authenticity and proper support.

Purchase Platform	Link	Note
Dragonball Official Store	dragonball.com	Direct purchase from the manufacturer
Premium Resellers	minerasic.com	Authorized resellers with warranty support

- **Dragonball Official Store**: Purchasing from the official website ensures the best customer service and warranty options.
- **Premium Resellers**: **MinerAsic** and other authorized resellers offer trusted support and warranty coverage, ensuring the product's quality.

Maintenance of the Dragonball A11 Radiant Miner

To ensure your **Dragonball A11 Radiant Miner** continues to perform at its peak, follow these maintenance tips:

1. Regular Cleaning

- Over time, dust and debris can accumulate on the miner's cooling components. This can lead to overheating and reduced performance.
- **Method**: Clean the miner every **1-2 months**, or more frequently in dust-prone environments. Use a soft cloth, a brush, or compressed air to remove dust. Be cautious when cleaning the internal parts to avoid damage.

2. Temperature Monitoring

- The optimal operating temperature range is **0°C to 40°C**. Ensure that the miner is not exposed to extreme temperatures, which could cause hardware failure.
- **Solution**: Place the miner in a well-ventilated area with cool airflow. If the ambient temperature exceeds 40°C, consider using additional cooling systems like air conditioning or fans to regulate temperature.

3. Fan Inspection

- Since cooling is crucial to the miner's performance, inspect the fans periodically (every **3-4 months**) to ensure they are running smoothly. Faulty fans can result in overheating.
- **Replacement**: If the fans show signs of wear (e.g., noise or reduced airflow), replace them immediately to prevent overheating damage.

4. Firmware Updates

- Regularly check for firmware updates to optimize performance and fix any software-related issues.
- **Frequency**: Log into the miner's web interface and check for updates periodically. Installing firmware updates helps ensure your miner operates efficiently and securely.

Overclocking the Dragonball A11 Radiant Miner

What is Overclocking?

Overclocking involves increasing the clock frequency of the miner's chips to boost its hashrate. However, it also increases power consumption and heat generation. Proper care and monitoring are needed to ensure that the device doesn't overheat or become unstable.

Overclocking Procedure

1. **Access the Miner's Web Interface**: Open a browser and input the miner's IP address to access the interface.
2. **Go to the Overclocking Section**: Navigate to the "Overclocking" menu and adjust the settings incrementally.

3. **Monitor**: After each adjustment, monitor the temperature, energy consumption, and hash rate. Test the stability of the miner by running it for a few hours.
4. **Stability Testing**: Ensure the miner remains stable after overclocking. If it becomes unstable or overheat, return to the previous stable settings.

Precautions for Overclocking

- **Cooling**: Overclocking increases heat output, so ensure your cooling solution is sufficient.
- **Power Supply**: Make sure your power supply can handle the increased energy requirements when overclocking.

Tips for Optimal Use

1. **Initial Setup and Installation**
    - **Location**: Install the miner in a clean, dry, and well-ventilated space. Avoid placing it near heat sources or in humid environments.
    - **Power Supply**: Use **certified power supplies** to prevent power interruptions or voltage fluctuations that could damage the miner.
2. **Troubleshooting Common Issues**
    - **Connection Issues**: If the miner is not connecting to the mining pool, check network settings and ensure the internet connection is stable. Verify the IP settings and ensure the RJ45 Ethernet connection is properly configured.
    - **Hardware Failures**: Look for signs of faulty fans, power supplies, or other components. If necessary, replace the defective parts promptly to avoid further damage.

    - **Software Issues**: For issues such as system crashes or error messages, restarting the miner or performing a reset can often solve the problem.
3. **Device Security**
    - **Use a VPN**: To safeguard your miner from cyberattacks, consider using a **VPN** when remotely managing the miner.
    - **Firewall Protection**: Configure a firewall to restrict unauthorized access and ensure that the device is secure.
4. **Regular Maintenance**
    - **Check Cables and Connectors**: Periodically check all cables and connectors for wear and tear, ensuring that everything is securely connected.
    - **Cooling System**: Regularly inspect the cooling system, including fans and heat sinks, to ensure optimal operation.

Humidity Control in Mining Rooms or Farms

Managing humidity is essential for ensuring the longevity and efficiency of your **Dragonball A11 Radiant Miner**. High humidity can lead to condensation, which may cause corrosion or electrical short circuits.

Optimal Humidity Control

- **Monitor Humidity**: Keep humidity levels between **10% and 90%**. Excessive moisture can damage the miner's electronics.
- **Dehumidifiers**: Use industrial dehumidifiers to control moisture levels in high-humidity environments.
- **Ventilation**: Ensure proper airflow in your mining room to prevent the buildup of humidity.

- **Temperature Control**: Keep the room temperature between **0°C and 40°C** to prevent condensation from forming inside the miner.

Conclusion

The **Dragonball A11** **Radiant Miner (3.2 TH/s)** offers outstanding performance for mining both **Radiant (RXD)** and **Alephium (ALPH)**. With its energy efficiency, robust build, and high hashrate, it is an excellent choice for miners looking to profit from these promising cryptocurrencies. By following regular maintenance practices, optimizing cooling, and ensuring safe overclocking, you can maximize your miner's performance and profitability over the long term.