Complete Guide to the [AL MAX (Goldshell)](#)

Introduction

The [AL MAX](#) from **Goldshell** is a high-performance ASIC miner designed for mining **Alephium (ALPH)** using the **Blake3 algorithm**. With a **maximum hashrate of 8.3 TH/s (+-5%)** and a **power consumption of only 3350W**, the **AL MAX** offers excellent performance and efficiency for miners interested in **Alephium**. Released in **November 2024**, this model is an ideal solution for those looking to mine **Alephium** efficiently and profitably.

The **AL MAX** is a great choice for both individual and small-scale mining setups due to its compact size and relatively low power consumption. This guide will cover the **AL MAX**'s **specifications**, **mineable coins**, **setup instructions**, and best practices for **maintenance** and **troubleshooting**.

Technical Specifications of the [Goldshell AL MAX](#)

The [Goldshell AL MAX](#) is designed for efficiency and reliability in mining **Alephium** (ALPH). Below are the key specifications:

Feature	Details
Manufacturer	Goldshell
Model	AL MAX
First Release	November 2024
Mining Algorithm	Blake3
Maximum Hashrate	8.3 TH/s (+-5%)
Power Consumption	3350W
Input Voltage	110-240V
Interface	Ethernet
Dimensions	200 mm x 264 mm x 290 mm
Weight	8.5 kg
Noise Level	45 dB

Feature	Details
Cooling Fans	2
Temperature	5 - 35 °C
Humidity	5 - 85 %

Key Features:

1. **High Hashrate**: The [AL MAX](#) delivers an impressive **8.3 TH/s (+-5%)** hashrate, making it a highly competitive choice for mining **Alephium (ALPH)** with the **Blake3 algorithm**.
2. **Low Power Consumption**: With a **power consumption of only 3350W**, the **AL MAX** is energy-efficient, offering a great balance of power and performance for **Alephium** mining.
3. **Compact Design**: The **AL MAX** is compact, with dimensions of **200 x 264 x 290 mm**, and weighs just **8.5 kg**. This makes it well-suited for both home and small-scale mining operations where space and energy are valuable resources.
4. **Noise Level**: Operating at a **moderate noise level of 45 dB**, the **AL MAX** can be used in environments where noise may be a consideration, such as home offices or small data centers.
5. **Cooling**: Equipped with **2 fans**, the **AL MAX** ensures proper cooling, keeping the device at an optimal temperature range for continuous mining operations.

Mineable Coins

The **AL MAX** is optimized for mining **Alephium (ALPH)** using the **Blake3** algorithm. Alephium is a **next-generation blockchain** designed to provide scalability and decentralization, making it a promising coin for miners seeking new opportunities.

Cryptocurrency Symbol Algorithm

Cryptocurrency	Symbol	Algorithm
Alephium	ALPH	Blake3

Alephium (ALPH)

The **Alephium (ALPH)** blockchain is designed to overcome the scalability issues faced by other cryptocurrencies. It uses **Blake3** for its hashing algorithm, which is efficient and fast. The **AL MAX** is specifically built to mine **Alephium**, and its powerful hashrate of **8.3 TH/s** allows miners to contribute to the **Alephium** network while earning rewards.

Where to Buy the AL MAX

You can purchase the **AL MAX** directly from **Goldshell** or from authorized resellers. Here are some recommended platforms:

Purchase Platform	Link	Note
Goldshell Official	goldshell.com	Direct purchase from the manufacturer, ensuring warranty and

Purchase Platform	Link	Note
Store		support
Authorized Resellers	minerasic.com	Reputable resellers with warranty and after-sale support

- **Authorized Resellers**: Trusted resellers provide competitive pricing and reliable post-purchase support.

Setup and Installation

Initial Setup Instructions

1. **Power Supply Requirements**: The Goldshell AL MAX requires an **input voltage of 110-240V** and consumes **3350W**. Ensure that you use a stable and capable **power supply** that can handle the miner's requirements.
2. **Network Setup**: The **AL MAX** features an **Ethernet port** for network connectivity. Ensure that the miner is connected to a reliable **high-speed internet connection** to avoid interruptions in mining.
3. **Placement**: The **AL MAX** should be placed in a **cool and dry location** with good ventilation. The miner's operating temperature range is **5 - 35 °C**, so ensure the environment stays within this range.
4. **Ethernet Configuration**: Once connected to the network, access the **AL MAX**'s IP address through a browser to configure the mining pool settings, monitor performance, and adjust other settings as needed.

Maintenance of the AL MAX

Routine maintenance will help ensure the [AL MAX](#) operates at peak efficiency. Here are some tips:

1. **Cooling System**: The **AL MAX** has **2 cooling fans**. Regularly check the fans for dust buildup and clean them to ensure proper airflow and cooling. The miner operates best when kept within the temperature range of **5 - 35 °C**.
2. **Firmware Updates**: Regular **firmware updates** from **Goldshell** can improve the miner's performance and security. Keep the firmware up to date by visiting the **Goldshell website** or the miner's control panel.
3. **Network Connection**: Ensure that the **Ethernet connection** is stable to avoid mining interruptions. A consistent **high-speed internet connection** is essential for continuous mining.
4. **General Cleaning**: Periodically clean the miner's exterior, especially the fans and intake vents, to prevent dust buildup that could impact performance.

Troubleshooting the AL MAX

If you encounter issues with the [AL MAX](#), here are some troubleshooting tips:

1. **Miner Not Responding**: If the miner does not respond, check the **power supply** and **Ethernet connection**. Try restarting the miner and ensure it has access to the **internet**.
2. **Overheating**: If the miner is overheating, check the **cooling fans** and ensure they are functioning properly. Clean any dust or debris that may be blocking airflow.
3. **Low Hashrate**: If the miner's hashrate is lower than expected, verify that the **mining pool settings** are configured correctly. You may also want to check for **firmware updates** or reset the miner to its default settings.

The [AL MAX](#) from **Goldshell** is a highly efficient and reliable choice for **Alephium (ALPH)** miners. With its **8.3 TH/s hashrate**, **low power consumption of 3350W**, and compact design, the **AL MAX** is perfect for home miners, small-scale operations, or anyone looking to mine **Alephium** with minimal power usage. By following the **setup**, **maintenance**, and **troubleshooting** steps outlined in this guide, you can ensure optimal performance and maximize your profit