GoldShell E-KA1M Powerful and Efficient ASIC Miner Owner's Manual

Goldshell

MinerAsic

Complete Guide to the E-KA1M Goldshell

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Introduction

The E-KA1M Goldshell is a powerful and efficient ASIC miner designed to mine Kaspa (KAS) using the KHeavyHash algorithm. Released in August 2024, this miner boasts a maximum hashrate of 5.5 Th/s and a power consumption of only 1800W, making it an excellent choice for high-performance mining operations.
The E-KA1M offers a perfect balance between high hashing power and efficient energy use, making it suitable for professional miners looking to mine Kaspa effectively.
This guide provides a comprehensive overview of the E-KA1M, including its specifications, where to buy, maintenance tips, optimal usage strategies, and more.

Technical Specifications of the E-KA1M Goldshell

Feature	Details
Manufacturer	Goldshell
Model	E-KA1M
Release Date	August 2024
Mining Algorithm	KHeavyHash
Maximum Hashrate	5.5 Th/s
Power Consumption	1800W (+-5%)
Size	Not specified
Weight	Not specified
Noise Level	Not specified
Fan(s)	2
Input Voltage	110–240V
Interface	Ethernet
Operating Temperature	5°C – 35°C
Operating Humidity	10% – 90%

Cryptocurrencies Mineable with the E-KA1M

The E-KA1M is specifically designed for mining Kaspa (KAS), which uses the KHeavyHash algorithm. This makes it an ideal option for miners focused on Kaspa.

Cryptocurrency	Symbol	Algorithm
Kaspa	KAS	KHeavyHash

Where to **Buy the E-KA1M** from Goldshell
Purchase Options
The **E-KA1M** can be purchased from Goldshell's official website or from authorized resellers. Always ensure that you're buying from trusted sources to guarantee the authenticity of the product and the best support.

Purchase Platform	Link	Note
Goldshell Official Store	www.goldshell.com	Direct purchase from the manufacturer
Premium Resellers	MinerAsic	Official warranty and support

Why Choose MinerAsic for Your ASIC Purchase?
When purchasing an ASIC miner, **MinerAsic** is an excellent choice. They offer the **E-KA1M** along with outstanding customer service, competitive pricing, and expert support.
Why Choose MinerAsic?

1. Top-Quality Products: MinerAsic only offers high-performance miners from trusted brands like Goldshell.
2. Competitive Pricing: MinerAsic provides excellent value without compromising on quality or service.
3. Expert Support: Get installation assistance, troubleshooting help, and warranty support from the MinerAsic team.
4. Global Trust: Known for their professionalism and customer service, MinerAsic is a trusted partner for miners worldwide.

E-KA1M Maintenance

Device Cleaning and Care

Regular maintenance is essential to keep your E-KA1M running at its best.

1. **Regular Cleaning**
   Dust can accumulate on fans and cooling systems, reducing efficiency. Clean the device every 1–2 months or more often in dusty environments.
   o Method: Use a soft cloth, a brush, or compressed air to clean the device. Be gentle to avoid damaging internal components.
2. **Temperature Monitoring**
   Keep the operating temperature between 5°C and 35°C to prevent overheating and ensure smooth operation.
   o Solution: Ensure your miner is placed in a well-ventilated area.
3. **Fan Inspection**
   The E-KA1M has two fans, which are essential for keeping the miner cool. Inspect them every 3–4 months to ensure they are functioning properly.
   o Replacement: If fans are malfunctioning, replace them immediately to avoid overheating.
4. **Firmware Updates**
   Keep the miner's firmware updated to ensure optimal performance and prevent bugs.
   o Frequency: Check the firmware section of the web interface regularly for updates.

Overclocking the **E-KA1M**
What is Overclocking?
Overclocking is the practice of increasing a miner's hashrate by adjusting the clock frequency. This increases power consumption and heat generation, so it must be done carefully to avoid damage.

Overclocking Procedure

1. Access the miner's web interface by entering the device's IP address in your browser.
2. Go to the "Overclocking" section and gradually increase the clock frequency (e.g., by 5% at a time).
3. Carefully monitor the temperature and power consumption after each adjustment to ensure the miner operates correctly without overheating.

Precautions for Overclocking

- **Cooling:** Overclocking generates additional heat. Make sure your cooling system can handle the extra load.
- **Stability Testing:** After each adjustment, test the miner for stability to ensure it is still operating without issues.

Tips for Optimal Use

1. Initial Setup and Installation
   o Location: Place the miner in a cool, dry, and well-ventilated area to prevent overheating.
   o Certified Power Supplies: Ensure that the power supply is capable of handling the 1800W required for the miner.
2. Troubleshooting Common Issues
   o Network Issues: Ensure the miner is properly connected to the network via Ethernet. Check for any connection issues.
   o Hardware Failures: Inspect the fans, power supply, and cables for potential failures. Replace faulty parts as needed.
   o Software Errors: If you encounter system errors, restart the miner or perform a software reset.
3. Device Security
   o Protection from Cyberattacks: Use a VPN and configure a firewall to protect your miner from external threats.
   o Security Updates: Ensure that the firmware is always up to date to fix security vulnerabilities and optimize performance.
4. Periodic Maintenance
   o Cables and Connectors: Regularly check cables and connectors to avoid malfunctions, in addition to cleaning and inspecting the fans.

Humidity Control in Mining Environments

Managing humidity is crucial for ensuring the longevity and efficiency of your mining equipment.

- Optimal Humidity Range: Maintain humidity levels between 40% and 60% for optimal performance.
- Monitoring: Use hygrometers to keep track of humidity, especially in larger mining setups.
- Dehumidifiers: In humid environments, consider using industrial dehumidifiers to maintain the proper moisture level.
- Temperature Control: Keep the temperature between 18°C and 25°C to prevent condensation.

Holistic Approach to Choosing an **ASIC Miner**
When selecting an **ASIC miner**, it's important to consider various factors beyond just hashrate and power consumption.

1. Diversification: The **E-KA1M** is ideal for mining Kaspa (KAS). Consider whether you want to mine a variety of cryptocurrencies and select miners that suit those needs.
2. Hardware Cost: Although the **E-KA1M** is a high-performance miner, consider how long it will take to recoup the investment based on the network difficulty and current cryptocurrency prices.
3. Long-Term Viability: As network difficulty increases or new models are released, ensure the miner you choose will remain profitable in the long term.

The **E-KA1M** from Goldshell is an excellent choice for miners looking to mine Kaspa (KAS). With a robust hashrate of 5.5 Th/s and an efficient power consumption of 1800W, it's well-suited for both professional miners and those scaling up their operations. By following regular maintenance practices, keeping your mining environment optimal, and carefully overclocking the device, you can maximize the miner's performance and longevity.

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Documents / Resources

	GoldShell E-KA1M Powerful and Efficient ASIC Miner [pdf] Owner's Manual E-KA1M Powerful and Efficient ASIC Miner, E-KA1M, Powerful and Efficient ASIC Miner, Efficient ASIC Miner, ASIC Miner, Miner

References

- Home - Goldshell Official
- Home - Goldshell Official
- MinerAsic- IT Trusted Vendor Cryptocurrency Mining Hardware
- User Manual