ICERIVER

AE2
720 MH/s

Air-cooled Aleo miner · zkSNARK



COIN · ALGORITHM
Aleo · zkSNARK (Aleo)

COOLING
Air (fans)

POWER
100–240 V

RELEASED
Jul 2025

Product Manual

Setup, operation, maintenance and OneMiners hosting guide

Version 1.0
First edition, November 2026
Information checked 7 Nov 2026

Contains manufacturer documentation © IceRiver, summarised for customer reference.

About this manual

This manual covers the **IceRiver AE2**, rated at **720 MH/s** and **1,300 W**.

Each section that reproduces or summarises manufacturer content is marked with a **Source** tag. Values that sources disagree on, or that no source confirms, are marked **Needs verification** and listed in section 1.4. Chapters 8 to 12 cover the OneMiners platform, hosting, warranty and wallet, and are marked **OneMiners**.

Before you start

CHECK	POWER	ROOM	NETWORK
Label says AE2	**100–240 V**	**5–45 °C**	**RJ45 + DHCP**
Check the version on the label.	About about 5.9 A at 220 V · 11.8 A at 110 V (calculated).	Ventilated, away from people (50 dB).	A PC on the same network.

How notices are used

DANGER
Risk of electric shock, fire or injury. Do not continue until the condition is met.

CAUTION
Risk of damage to the miner, lost earnings or loss of data. Read before acting.

NOTE
Useful background, limits of a specification, or where to check further.

ONEMINERS
Applies to miners hosted in a OneMiners data center.

Copyright and disclaimer

© OneMiners, 2026. This manual combines documentation published by the manufacturer, IceRiver, and other cited sources with supplementary material written by OneMiners (platform, hosting, warranty and wallet chapters). Manufacturer content remains the property of its owner and is reproduced or summarised here for the convenience of OneMiners customers. OneMiners claims no ownership of it. All product names and trademarks belong to their respective owners.

Specifications are typical values and may change without notice. Always confirm against the label on your unit and the latest manufacturer documentation. Information about profitability, hosting prices and platform features is for guidance only and is not financial advice. OneMiners' supplementary chapters may not be copied or redistributed without written permission.

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CHAPTER 01

Product Overview

The IceRiver AE2 is an air-cooled miner.



Figure 1-1 IceRiver AE2 720 MH/s. Image: OneMiners product photo.

1.1 Key figures

720 MH/s	1,300 W	1.81 J/MH
Typical hashrate	Power on wall	Efficiency

1.2 Specifications

ITEM	VALUE
PRODUCT	
Model / version	**IceRiver AE2**
Algorithm / coins	**zkSNARK (Aleo) · ALEO**
Hashrate	**720 MH/s**
Power on wall	**1,300 W**
Efficiency	**1.81 J/MH**
POWER	
Input	**100–240 V AC (ASIC Miner Value)**
Current	**about 5.9 A at 220 V · 11.8 A at 110 V (calculated)**
Power cord	**IEC C19 (OneMiners)**

ITEM	VALUE
HARDWARE	
Network	**RJ45 Ethernet 10/100M**
Size (L×W×H)	**205 × 110 × 202 mm**
Weight	**4.69 kg (ASIC Miner Value) · 4.02 kg (OneMiners)**
Noise	**50 dB (ASIC Miner Value) · 70 dB (OneMiners)**
ENVIRONMENT	
Operating temperature	**5–45 °C**
Humidity	**10–90% RH (ASIC Miner Value)**

SOURCE ASIC Miner Value, IceRiver ALEO AE2 (720 MH/s); OneMiners product page.

1.3 Hardware

Power	100–240 V AC (ASIC Miner Value); IEC C19 (OneMiners).

Network	Ethernet
Cooling	2 fans.

SOURCE ASIC Miner Value, IceRiver ALEO AE2 (720 MH/s); OneMiners product page.

1.4 Values that need verification

These values conflict between sources or aren't confirmed by the manufacturer. Check the label on your unit, and ask OneMiners support before planning power or cooling around them.

ITEM	WHAT THE SOURCES SAY	USED IN THIS MANUAL
Input voltage	ASIC Miner Value 100–240 V · OneMiners 220–240 V	220–240 V recommended (about 12 A at 110 V)
Noise	ASIC Miner Value 50 dB · OneMiners 70 dB	Plan for 70 dB
Size	205 × 110 × 202 mm is listed by both, but looks small for the pictured chassis	Check on delivery

02 CHAPTER Safety and Installation Requirements

The AE2 draws about 1.3 kW and produces loud, hot exhaust air. Plan the circuit and the room before switching it on.

2.1 Safety warnings

DANGER · ELECTRICAL

- Connect to an **earthed** outlet near the equipment and easy to reach.
- Use only 100–240 V AC (ASIC Miner Value). Wrong input voltage may damage the miner.
- The AE2 draws about 5.9 A at 220 V · 11.8 A at 110 V (calculated). Use a power cord, PDU and circuit rated for at least that current.

CAUTION · EQUIPMENT

- Don't open the case or remove screws; unauthorised disassembly can void the warranty.
- Keep the miner away from water and condensing humidity.

2.2 Electrical requirements

Input	**100–240 V AC (ASIC Miner Value)**
Typical load	**1,300 W**
Current	**about 5.9 A at 220 V · 11.8 A at 110 V (calculated)**

Power cord	**Rated for the current above**

Use earthed circuits sized by a licensed electrician to local code. Don't use household extension leads or multi-plugs.

2.3 Climate and site

CONDITION	REQUIREMENT
Operating temperature	5–45 °C
Humidity	10–90% RH (ASIC Miner Value)
Noise	50 dB (ASIC Miner Value) · 70 dB (OneMiners)

- Keep intake and exhaust clear and don't let hot exhaust air flow back into the intake.
- At 50 dB, the AE2 isn't suitable for living or office spaces.
- Avoid dust, salt air and corrosive gases; clean more often in dusty sites.

SOURCE ASIC Miner Value, IceRiver ALEO AE2 (720 MH/s); OneMiners product page.

03 CHAPTER Initial Setup

These steps take a new AE2 from the box to its management interface. If your miner is hosted by OneMiners, our team does this for you; skip to Chapter 8.

3.1 Unboxing and connecting

- Check the carton for damage and confirm the label shows **IceRiver AE2**. Keep the packing for transport and warranty returns.
- Listen for anything loose inside and check no heat sink has come off. Don't open the miner; IceRiver doesn't cover units opened without permission.

1. **Network**
   Connect the Ethernet cable. The miner gets its address by DHCP.
2. **Power**
   Plug in the power cable and switch the miner on.
3. **Wait**
   The fans run slowly until the self-check finishes, then mining starts.

3.2 Finding the miner's IP address

1. Download IceRiver's batch tool from iceriver.io/tutorial and click **Detect IP**.
2. When the pop-up appears, press and hold the miner's **IP** button for 1–2 seconds. The IP address appears in the tool.

3.3 Logging in

1. Enter the IP address in a browser (Chrome recommended) on the same network.
2. Log in with username `admin` and password `12345678`.
3. Change the password under **User Settings**.

> **DEFAULT LOGIN**
> IceRiver uses the same web interface across its range; the defaults come from IceRiver's AE3 user manual. Confirm on your unit.

SOURCE IceRiver AE3 user manual (batch tool, login, pool configuration, firmware); IceRiver uses one web interface across its range.

04 CHAPTER Mining Configuration

The AE2 mines on the zkSNARK (Aleo) algorithm. Enter a pool for that coin.

4.1 Setting up pools

1. Open **Mining setting** › **Pool configuration**.
2. Enter up to three pools: pool address, wallet or account with a worker name, and an optional password.
3. Click **Save**, then **Reboot**. When the home page shows the pool as connected, setup is complete.

> **REPLACE THE FACTORY POOLS**
> IceRiver ships miners with test pools. Enter your own pools and wallet before mining, or the hashrate won't be credited to you.

FIELD	WHAT TO ENTER
Pool / mining address	The pool's stratum address, in the format `stratum+tcp://host:port`. Copy it from your pool's "Connect" or "Getting started" page.
Worker / user	Your pool account or wallet address plus a worker name, usually `account.worker`, for example `myaccount.ae201`.
Password	Optional. Most pools accept any value, such as `x`.

> **COIN AND POOL**
> The miner mines Aleo (ALEO). Aleo pools take your Aleo address (starting with `aleo1`) or a pool account, followed by a worker name.

CAUTION
Use only pool addresses from the pool's official website, and always add at least one backup pool. A mistyped address mines for nobody.

ONEMINERS
Hosted miners are configured from the OneMiners platform rather than the miner's own dashboard. To change pools, use **Pool Settings** in your account (see 8.2).

SOURCE IceRiver AE3 user manual (batch tool, login, pool configuration, firmware); IceRiver uses one web interface across its range.

05 CHAPTER Monitoring Performance

Judge performance by the average hashrate after the miner has run for some time.

5.1 What "normal" looks like

698–742 MH/s	**1,235–1,365** W	**< 1** %
Average hashrate (±3%)	Wall power (±5%)	Pool rejection rate

Calculated from the rated values with the manufacturer's usual tolerances (hashrate ±3%, power ±5%).

5.2 What to watch

VALUE	MEANING
Average hashrate	The most reliable measure of performance. The real-time figure moves with every share.
Board temperatures	Board temperatures should stay stable. Rising values point to dust, fans or room temperature.
Fan speed	Every fan should report a speed. A stopped fan raises temperatures and stops mining.
Pool status	Active pool, accepted and rejected shares. Rejection below 1% is normal.

06 CHAPTER Firmware and Maintenance

Keep the firmware current and the airflow clean. Most problems on air-cooled miners trace back to dust, fans or room temperature.

6.1 Firmware

> **USE THE RIGHT FILE**
> Install only firmware IceRiver publishes for the **IceRiver AE2**, from iceriver.io or the OneMiners Manuals & Firmware Library. Keep the miner powered during the upgrade.

1. Open **Firmware upgrade**, choose the file IceRiver publishes for your model and start the upgrade.
2. Don't switch the miner off until it has restarted.

6.2 Password and reset

- Change the password under **User Settings** after first login.
- Factory reset: use the reset button on the control panel (**Needs verification**: hold time for your model).

SOURCE IceRiver AE3 user manual (batch tool, login, pool configuration, firmware); IceRiver uses one web interface across its range.

6.3 Preventive maintenance

WHEN	TASK
Daily / remotely	Check average hashrate, board temperatures, fan speeds and pool status.
Monthly	Check room temperature and humidity against 2.3. Look for dust on fan guards.
Every 1–3 months	Switch off and unplug, then clean fans and heat sinks with dry compressed air.
Regularly	Check power cords and plugs for heat marks. Check for new firmware.

Intervals are OneMiners recommendations. Clean more often in dusty sites.

CHAPTER 07

Troubleshooting

Start with the symptom table. Hosted customers: don't attempt repairs yourself; contact OneMiners service.

SYMPTOM	CHECK
Miner doesn't power on	Check the supply is 100–240 V AC (ASIC Miner Value) and the power cord is fully seated and rated for the current.
No network / IP not found	Check the cable and DHCP, then repeat the IP search in 3.2.
Pool won't connect	Re-check the pool address and port, the worker name, gateway and DNS. Make sure the pool port isn't blocked by a firewall.
Low or unstable hashrate	Compare the average hashrate with 5.1. Check board temperatures, fans and dust. Update the firmware.
Overheating	Check the room is within 5–45 °C, fans are running and intake and exhaust are clear. Clean, then restart.
Smell, unusual sound or smoke	Switch off immediately and contact service.

SOURCE Based on IceRiver documentation cited in Chapters 2–6.

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For a hosted miner, send the symptom and your miner's service ID to **service@oneminers.com** or WhatsApp **+1 305 867 6143**. Repairs under warranty are handled on site by our repair team.

08 CHAPTER OneMiners Platform Guide

Miners hosted by OneMiners are monitored and managed from your account at app.oneminers.com or the OneMiners mobile app. Screens in this chapter are from OneMiners platform v1.2 and show example values from other miners, not an AE2.

8.1 Miner details

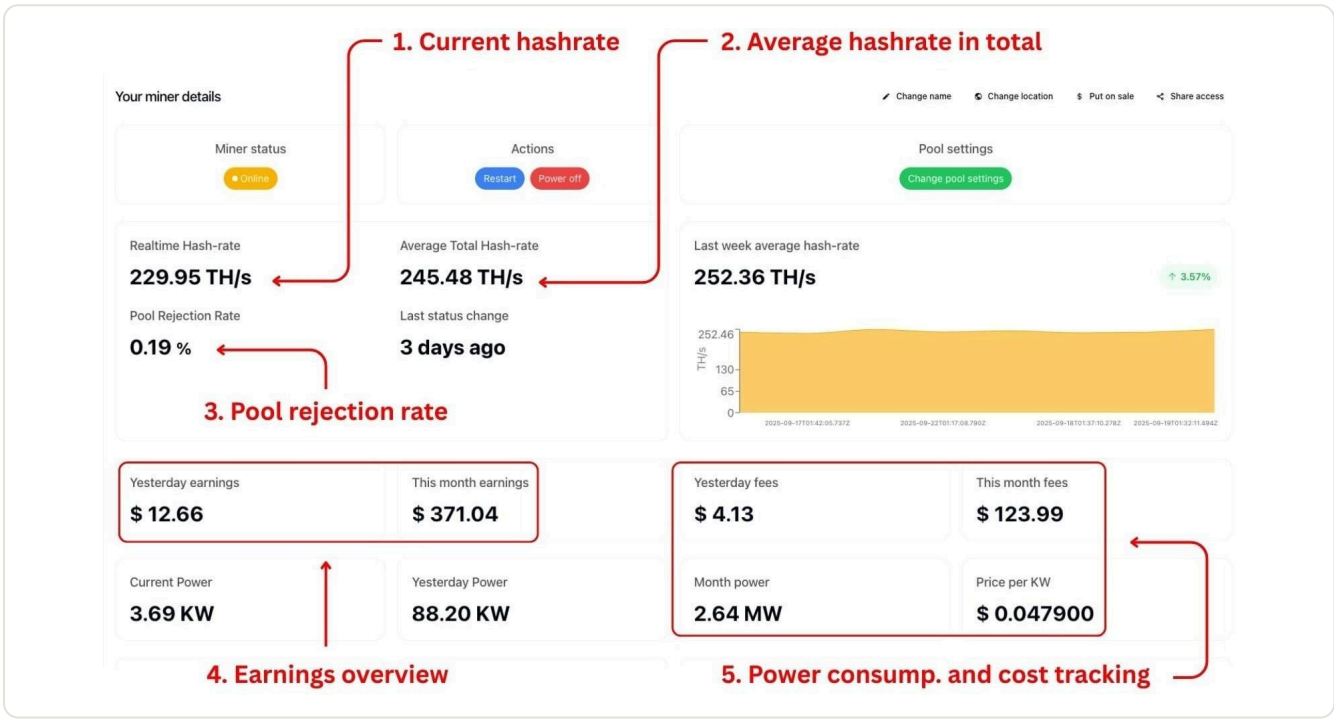


Figure 8-1 Miner details on OneMiners platform v1.2 (example values).

1 · Current hashrate	Real-time hashrate (for the AE2, in MH/s). It moves with network stability, hardware and pool communication.
2 · Average hashrate	Average over a longer period (typically 24 h). The most reliable measure of performance; for the AE2, expect about 698–742 MH/s.
3 · Pool rejection rate	Share of submitted shares the pool rejected. Below 1% is healthy.
4 · Earnings overview	Estimated earnings for the selected period, based on accepted shares.
5 · Power and cost	Real-time and historical energy use (kW) and its cost at your configured price per kWh.

8.2 Pool settings

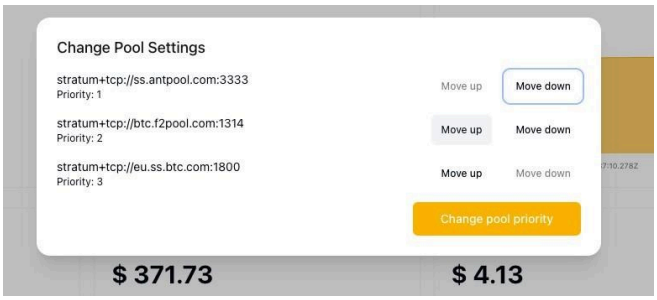


Figure 8-2 Change Pool Settings.

- Up to three pools can be connected.
- Pools are listed in priority order. If the first is unavailable, the miner switches to the second, then the third.
- Use **Move up** / **Move down** to set the order, then **Change pool priority** to apply it.

8.3 Earnings and fees



Figure 8-3 Earnings, fees, power and price per kWh (example values).

- **Earnings:** daily, monthly and cumulative mining rewards in USD or your selected currency.
- **Fees:** pool and platform fees deducted from earnings, shown daily and monthly.
- **Net result:** earnings minus fees, which is your net mining income.

8.4 Hardware status

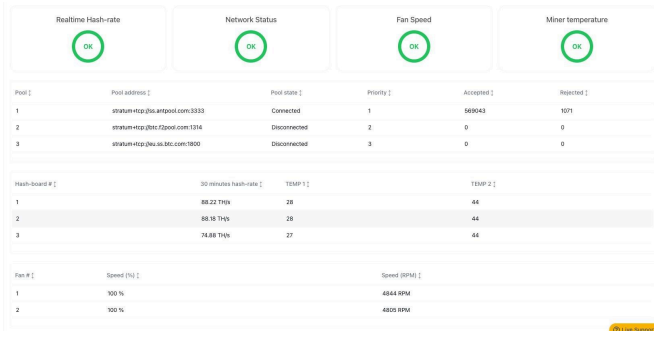


Figure 8-4 Hardware status (example from an air-cooled miner).

- **Network status:** whether the miner is connected to its pools. Address disconnections immediately.
- **Miner temperature** and **hashboard table:** per-board hashrate and temperatures. Useful for spotting an underperforming board early.

> **AIR-COOLED UNITS**
> Fan speed is shown per fan (2 fans on the AE2). A slow or stopped fan raises temperatures and stops mining, so act on fan alerts quickly.

ONEMINERS OneMiners platform v1.2. Confirm layout against the current version of your account.

CHAPTER 09

OneMiners Hosting and Warranty

OneMiners hosts customer-owned miners in its data centers, providing power, cooling, racking and monitoring. Terms below reflect OneMiners' published pages as checked on 7 November 2026.

9.1 Hosting

- Hosting is offered across 17 data centers worldwide, **from 3.6¢ per kWh** at the time of writing.
- Locations include Nigeria, Ethiopia, Dubai, the USA (Texas, Houston, Georgia, South Carolina, Kansas and a no-service-fee option), Finland, Norway, Canada, Brazil, Czechia, China and Paraguay.
- Hosted orders are deployed turnkey; OneMiners racks, connects and monitors the miner.
- Air-cooled miners like the AE2 are accepted at most sites. Ask sales which locations currently host the AE2.

Current prices and locations: oneminers.com/pages/hosting-centers.

9.2 Warranty

HOSTED WITH ONEMINERS

7-year full warranty for miners hosted in the USA, Dubai, Norway, Finland, Ethiopia, Nigeria and China.

- Free on-site repairs
- No-cost replacement of power supplies and cables
- No labour or diagnostic fees

SHIPPED TO YOU

Standard 12-month warranty, unless the manufacturer specifies otherwise.

- Free repair of manufacturing defects
- Replacement of defective units when necessary
- Valid only when the miner is operated according to official instructions

All customers during warranty

Remote diagnostics, real-time monitoring, 24/7 technical support, and firmware upgrades and maintenance.

Exclusions

The warranty may be voided by damage from misuse, unauthorised modifications or non-compliant operation. For the AE2, this includes damage from running outside 5–45 °C or 100–240 V AC (ASIC Miner Value), undersized power cords, blocked airflow, firmware for other models, or opening the unit.

Out of warranty

Repairs typically cost **US$80–220**, depending on the fault and parts required.

Making a claim

Contact OneMiners support with your miner's hosting details and service ID through oneminers.com/pages/contact or **service@oneminers.com**.

ONEMINERS OneMiners Warranty Policy, oneminers.com/pages/warranty-policy . The policy page prevails if it differs from this summary.

10 CHAPTER Wallet and Mining Rewards

Rewards from a hosted miner are credited to your OneMiners wallet, where you can withdraw them or exchange between currencies.

10.1 Automatic mining balance

- The miner starts generating rewards as soon as it is installed and activated.
- If no energy payment has been preloaded, mining continues and energy costs and fees are deducted automatically from the rewards.
- If funds are preloaded in advance, earnings are credited without automatic deductions.
- You can change your payout wallet address in the wallet settings.

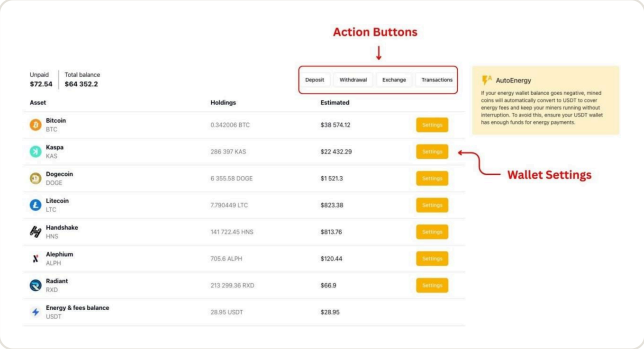


Figure 10-1 Wallet section.

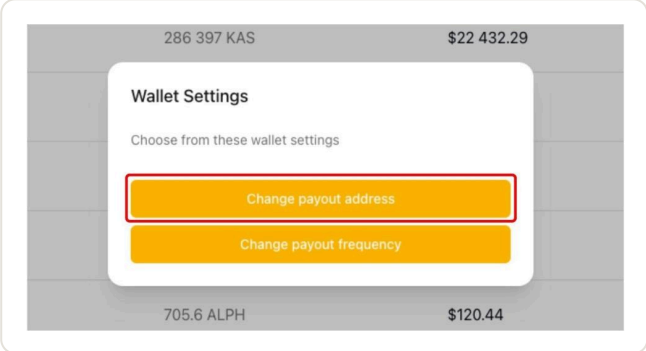


Figure 10-2 Changing the payout address.

10.2 Withdrawals

1. Go to **Wallet** › **Withdrawal**.
2. Add a crypto wallet address or a bank account.
3. Select the currency, enter the amount and confirm.

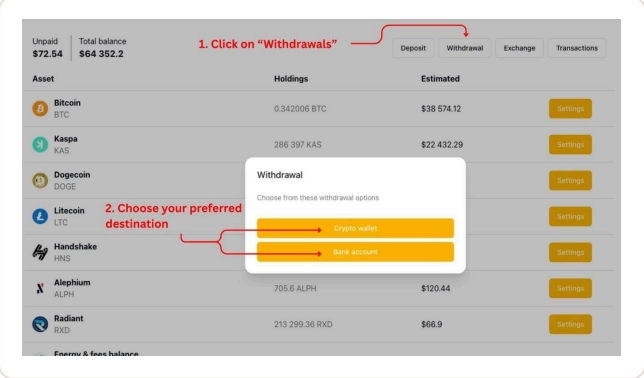


Figure 10-3 Choosing a withdrawal destination.

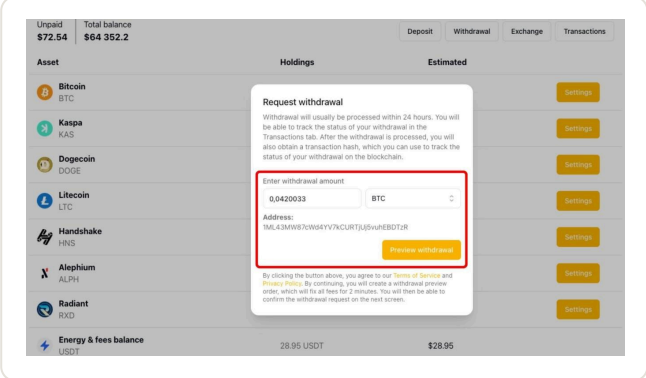
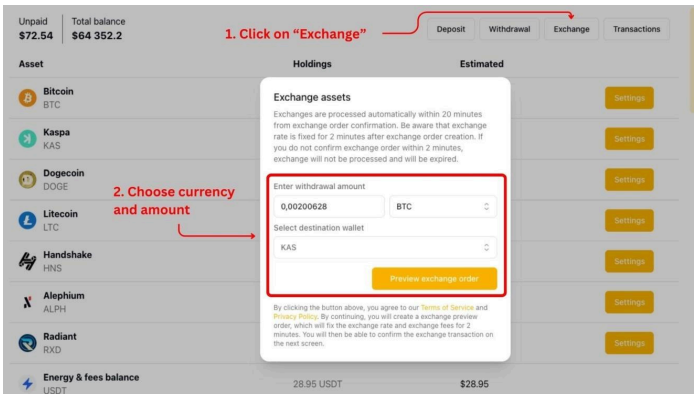


Figure 10-4 Choosing currency and amount.

10.3 Exchange



1. Go to **Wallet** › **Exchange**.
2. Select the currencies to exchange. You can also convert directly into **Energy & Fees** funds to keep the miner running.
3. Enter the amount and confirm.

Figure 10-5 Exchanging currencies.

> **BEFORE YOU WITHDRAW**
> Double-check addresses and networks. Crypto transfers to a wrong address usually can't be reversed. Keep enough Energy & Fees balance to avoid deductions from your rewards.

ONEMINERS OneMiners platform v1.2.

CHAPTER 11

Additional OneMiners Features

Optional tools in your OneMiners account. Availability and settings can change; check your dashboard for what is active on your account.

11.1 AI Smart Mining

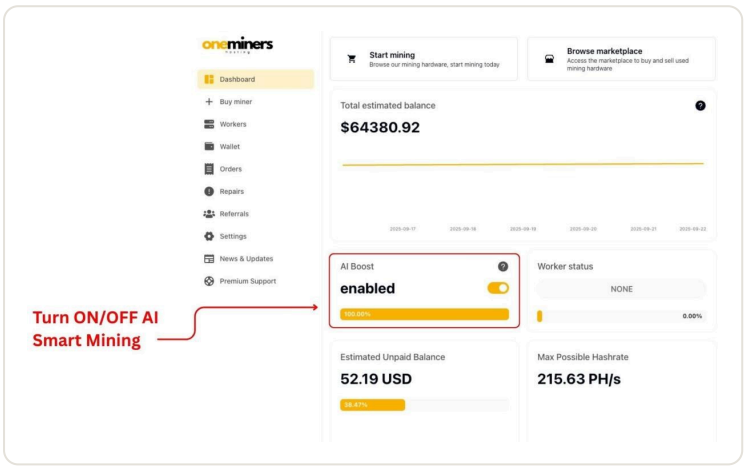


Figure 11-1 AI Boost toggle on the dashboard (platform v1.2).

AI Smart Mining analyses market conditions and pool performance and can switch your miner to the pools it calculates are most profitable.

- Turn it on or off with the **AI Boost** toggle on your dashboard.
- Your hardware keeps mining to your own account and wallet.

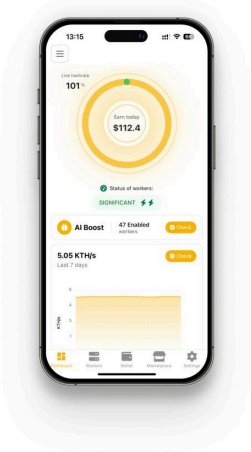
Results depend on hardware and market conditions and aren't guaranteed. More information: oneminers.com/pages/ai-smart-mining.

11.2 OneMiners mobile app

Monitor and manage your miners from your phone: start and stop miners, view hashrate, power use and hardware status, and manage balances and withdrawals. The app is built on the CircleHash white-label hosting platform and is free.

App Store

Google Play



11.3 Profitability tools

Mining income from the AE2 depends on the ALEO price, network difficulty and proof rewards and your electricity cost, all of which change daily. For current estimates, use the live tools rather than figures printed in a manual:

- Miner profitability table: oneminers.com/pages/miner-profitability

For the AE2, use 720 MH/s and 1,300 W with your own price per kWh. Estimates aren't financial advice.

12 CHAPTER Official Resources and Support

12.1 Resources

ICERIVER
Tutorials and tools
www.iceriver.io/tutorial

ONEMINERS
Manuals & Firmware Library
oneminers.com/pages/manuals-and-firmware

ONEMINERS
Product page
oneminers.com/products/iceriver-ae2-720-mh-s

ONEMINERS
Warranty policy
oneminers.com/pages/warranty-policy

ONEMINERS
Hosting locations
oneminers.com/pages/hosting-centers

12.2 Contact OneMiners

SUPPORT, 24/7

+1 305 867 6143

WhatsApp

+1 607 9009 004 · Sales, USA

service@oneminers.com · Service and repairs
sales@oneminers.com · Sales
payinquire@oneminers.com · Payments

Telegram: t.me/oneminers_hosting

ADDRESS

CIRCLEHASH LLC
701 Tillery Street
Austin, Texas 78702, USA

Contact page

Manuals library

12.3 Sources used for this version

1. ASIC Miner Value, IceRiver ALEO AE2 (720 MH/s): release, hashrate, power, voltage, noise, temperature, humidity, size, weight.
2. OneMiners product page, Iceriver AE2 720 MH/s.
3. IceRiver AE3 user manual (batch tool, login, pool configuration, firmware); IceRiver uses one web interface across its range.
4. OneMiners: product page, Warranty Policy, hosting pages, AI Smart Mining page, Media Kit, site contact details. All checked 7 November 2026.

12.4 Revision history

VERSION	DATE	CHANGES
V1.0	Nov 2026	First edition on the OneMiners media-kit template: manufacturer specifications with conflicts listed in 1.4, safety, installation, setup, pools, monitoring, firmware, maintenance and troubleshooting. Current warranty, hosting and contact details.