ICERIVER · ALEO

AE3
2 GH/s

Air-cooled Aleo miner · zkSNARK (PoSW)



COIN · ALGORITHM
Aleo · zkSNARK

COOLING
Air (fans)

POWER INPUT
AC 200–250 V

RATED EFFICIENCY
1.7 J/MH

Product Manual

Setup, operation, maintenance and OneMiners hosting guide

Version 1.3
Updated November 2026
Specifications verified 7 Nov 2026

Contains manufacturer documentation © IceRiver, supplied by IceRiverEU, reproduced for customer reference.

About this manual

This manual covers the **IceRiver AE3 rated at 2 GH/s** (3,400 W), an air-cooled miner for **Aleo (ALEO)**. IceRiver also sells a lower-rated AE3 (600 MH/s) and the AE0, AE1 and AE2. Those models have different specifications and need their own documents.

The AE3 mines **Aleo only**. It can't mine Kaspa or any other coin, so use Aleo pools and an Aleo wallet address.

Chapters 1 to 7 are based on IceRiver's documentation as supplied by IceRiverEU. Each section that reproduces manufacturer content is marked with a **Source** tag. Chapters 8 to 11 cover the OneMiners platform, hosting, warranty and wallet, and are marked **OneMiners**.

Before you start

CHECK	POWER	ROOM	NETWORK
AE3 · 2 GH/s	**AC 200–250 V**	**0–40 °C · < 90% RH**	**RJ45 + DHCP**
Confirm the model and rating on the unit's label.	Single input, about 3,400 W. Earthed outlet.	Clean, ventilated, away from people (75 dB).	A Windows PC for IceRiver's IP tool.

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

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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.

Contents

01	**Product Overview** Specifications, appearance and indicator lights	4
02	**Safety and Installation Requirements** Electrical, environment and placement	7
03	**Initial Setup** Inspection, start-up, IP address and dashboard login	8
04	**Mining Configuration** Aleo pools, wallet address and fan settings	10
05	**Monitoring Performance** Home page, indicator lights and what normal looks like	12
06	**Firmware and Maintenance** Firmware, network settings, reset, reboot and cleaning	13
07	**Troubleshooting** Power, network, fans, temperature and hashrate	15
08	**OneMiners Platform Guide** Miner details, pool settings, earnings and hardware status	16
09	**OneMiners Hosting and Warranty** Hosting service, warranty terms, exclusions and support	18
10	**Wallet and Mining Rewards** Mining balance, payout address, withdrawals and exchange	19
11	**Additional OneMiners Features** AI Smart Mining, mobile app and profitability tools	21
12	**Official Resources and Support** Links, contacts, sources and revision history	22

CHAPTER 01

Product Overview

The IceRiver AE3 is an air-cooled ASIC miner for Aleo, a privacy-focused blockchain that uses zero-knowledge proofs. IceRiver announced the 2 GH/s AE3 in October 2025, with first shipments from November 2025. It has a built-in power supply and a web dashboard for setup and monitoring.

1.1 Key figures

2 GH/s	3,400 W	1.7 J/MH	200–250 V
Rated hashrate	Rated power	Efficiency (1,700 J/GH)	AC input, 50–60 Hz

1.2 Specifications

ITEM	VALUE	SOURCE
PRODUCT		
Model	**IceRiver AE3 (2 GH/s)**	IceRiverEU; OneMiners listing
Coin / algorithm	**Aleo (ALEO) · zkSNARK proof of succinct work**	ASIC Miner Value; OneMiners listing
Rated hashrate	**2 GH/s**	IceRiverEU; ASIC Miner Value (±5%)
Rated power	**3,400 W**	IceRiverEU; ASIC Miner Value (±5%)
Efficiency	**1.7 J/MH (1,700 J/GH)**	Calculated: 3,400 W ÷ 2,000 MH/s
POWER AND NETWORK		
AC input	**200–250 V, 50–60 Hz**	IceRiver interface specification
Power connector	**C19/C20, 20 A cable**	OneMiners listing
Network	**RJ45 Ethernet**	IceRiver
PHYSICAL		
Dimensions (L × W × H)	**370 × 195 × 290 mm**	ASIC Miner Value; OneMiners listing
Weight	**Needs verification**	Sources disagree: 15.0, 16.0 and 17.5 kg
Cooling	**Air, front and rear fans**	IceRiver appearance figure

ITEM	VALUE	SOURCE
Noise	**75 dB**	ASIC Miner Value; OneMiners listing
ENVIRONMENT		
Operating temperature	**0–40 °C**	IceRiver precautions
Operating humidity	**Below 90%**	IceRiver precautions

> **NOTE**
> We couldn't access a full specification sheet published by IceRiver itself, so each value above shows where it comes from. Values from one source only should be confirmed against the label on your unit. Weight will be added when IceRiver confirms it.

1.3 Appearance



Figure 1-1 AE3 front and power-supply side. © IceRiver.

Fans	Front and rear fans move air through the hashboards
PSU	Built-in power supply on the side of the unit
Power Supply socket	AC input, 200–250 V
Power Button	Switches the miner on and off
Ethernet Port	RJ45 network connection
IP Button	Reports the miner's IP to IceRiver's tool
Reset Button	Restores factory settings (see 6.4)
TF card slot	MicroSD (TF) card slot
Indicator lights	D1–D4 on the control panel (see 5.3)



Figure 1-2 Control panel. D1 and D2 are on the left (red above green); D3 and D4 are on the right beside the Ethernet port (red above green). © IceRiver.

SOURCE IceRiver AE3 user manual (IceRiverEU edition): Appearance.

CHAPTER 02

Safety and Installation Requirements

The AE3 draws about 3.4 kW continuously and produces loud, hot exhaust air. Plan the power circuit and the room before switching it on.

2.1 Safety precautions

DANGER · ELECTRICAL

- Check for physical damage before use, and beware of electric shock.
- Check that every cable connection is firm before powering on.
- Use a stable voltage within 200–250 V AC.
- Keep the hashboards and other parts away from water and moisture.
- Don't place flammable or explosive substances near the miner.

CAUTION · EQUIPMENT AND WARRANTY

- Don't cover the miner. Its surface gets hot during operation.
- Keep the room clean so dust, hair, willow fluff and other debris don't enter the miner.
- Damage from crushing or burning caused by an unsuitable environment isn't covered by the warranty.
- Don't disassemble the miner without permission from IceRiver's after-sales team. Unauthorised disassembly voids the warranty.

SOURCE IceRiver AE3 user manual: Start up · Precautions.

2.2 Electrical requirements

Input	**Single AC input, 200–250 V, 50–60 Hz**
Rated power	**3,400 W**
Approximate current	**17.0 A at 200 V · 15.5 A at 220 V · 14.2 A at 240 V**
Cable	**C19/C20, rated 20 A**

Currents calculated from rated power (I = P ÷ V) and are approximate. Use a dedicated, earthed circuit sized by a licensed electrician to local code. Don't use household extension leads or multi-plugs.

2.3 Operating environment

Ambient temperature	**0–40 °C**
Humidity	**Below 90%**
Air	**Clean, free of dust and fibres**
Noise	**About 75 dB**

- Give the miner good air convection. Keep the intake and exhaust clear and don't push it against a wall.
- Don't let hot exhaust air flow back into the intake.
- At 75 dB, the AE3 isn't suitable for living or office spaces.

03 CHAPTER Initial Setup

These steps take a new AE3 from the box to its web dashboard. If your miner is hosted by OneMiners, our team does this for you; skip to Chapter 8.

3.1 Checks before start-up

- Check the packaging for deformation.
- Check the miner for deformation or breakage, and inspect the fans and cables.
- Listen for anything loose inside, and check that no heat sink has come off.
- Keep the packaging in case the miner needs to be shipped for service.

> **CAUTION**
> Don't open the miner. The warranty doesn't cover a unit disassembled without IceRiver's permission.

3.2 First start-up

1. **Network first**
   Connect the Ethernet cable. The miner gets its address by DHCP by default.
2. **Power**
   Plug in the power cable, then turn the miner on with the **Power Button**.
3. **Wait for start-up**
   During boot, the red and green lights on both sides stay on. Start-up is complete when **D2 blinks** and D1, D3 and D4 go off. If D2 hasn't started blinking after 10 minutes, check the network.

After power-on, the fans run slowly until the self-check finishes, then run at full speed. If the self-check finds a fan fault, mining won't start.

3.3 Finding the miner's IP address

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

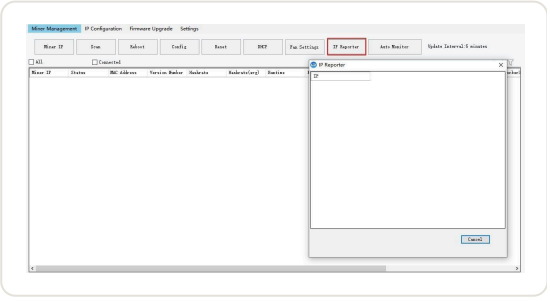


Figure 3-1 IceRiver batch tool with the IP detection window. © IceRiver.

3.4 Logging in to the dashboard

1. Open a web browser (Chrome is recommended) on the same network and enter the IP address.
2. Log in with username `admin` and password `12345678`.
3. To switch between English and Chinese, click **Language** in the top-right corner.



Figure 3-2 Login page. © IceRiver.

3.5 Changing the password

1. Click **User Settings**, enter the current password and the new password, then click **Save**.
2. Log in again with the new password.

> **CAUTION**
> Change the default password the first time you log in. Anyone on the network who knows it can change your pool and wallet settings.

Dashboard menu map

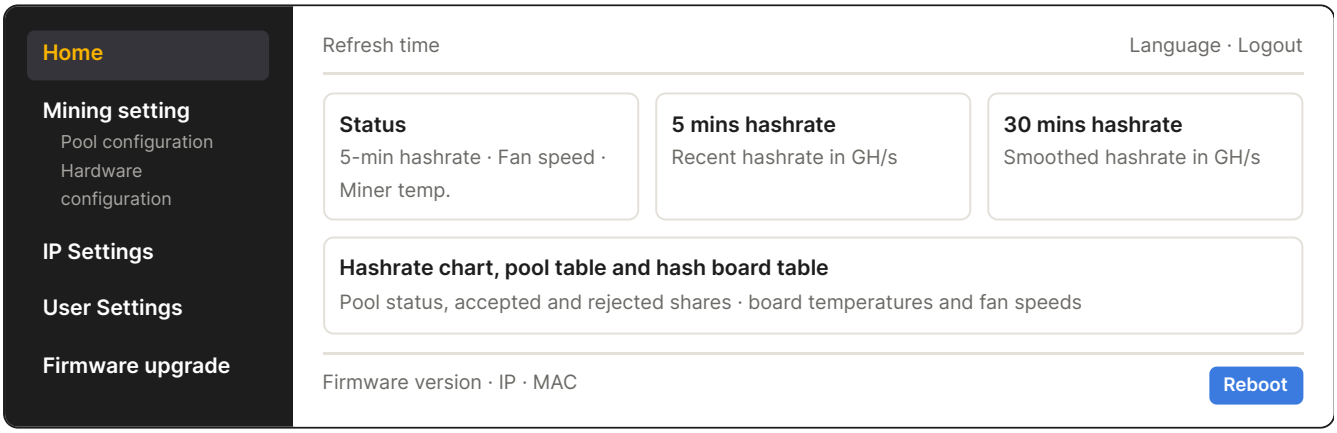


Illustration of the IceRiver web interface layout, not a screenshot. Labels can differ slightly between firmware releases.

SOURCE IceRiver AE3 user manual: Access Machine, Language Switch, Change Password.

04 CHAPTER Mining Configuration

The AE3 mines Aleo. You need an Aleo pool and either a pool account or an Aleo wallet address (it starts with `aleo1`). The miner holds three pools in priority order.

REPLACE THE FACTORY POOLS
The miner ships with IceRiver's test pool configuration. Enter your own pools and wallet before you start mining, or the hashrate won't be credited to you.

4.1 Adding pools

1. Open **Mining setting** › **Pool configuration**.
2. Enter up to three pools: the pool address, the wallet or account with a worker name, and an optional password.
3. Click **Save**. A confirmation window appears.
4. Click **Reboot** and wait for the miner to restart. Don't switch it off during the reboot.
5. When the home page shows the pool as **connected**, the pool is set up correctly.

Worked example: F2Pool

FIELD	VALUE
Pool 1	`stratum+tcp://aleo.f2pool.com:4400` (F2Pool's port for IceRiver ASICs)
Pool 2 (backup)	A second Aleo pool from the table below
Wallet/Worker	`accountname.workername`, for example `myaccount.ae3-01`. Use lowercase letters and numbers, up to 15 characters for the worker.
Password	`x`

SOURCE F2Pool, "How to mine Aleo" guide, checked 7 November 2026.

Other Aleo pools

POOL	MODE	ADDRESS
Aleo-pool	PPLNS	`stratum+tcp://eu1.aleo-pool.org:4444`
Aleo-pool	SOLO	`stratum+tcp://eu1.aleo-pool.org:4441`
HeroMiners	PPLNS	`stratum+tcp://ru.aleo.herominers.com:1210`
K1Pool	PPLNS	`stratum+tcp://eu.aleo.k1pool.com:23222`
K1Pool	SOLO	`stratum+tcp://eu.aleosolo.k1pool.com:23114`

Most of these pools use your Aleo wallet address and a worker name, written `aleo1…yourwallet.worker`. Check each pool's own setup page for its exact format.

SOURCE IceRiverEU tested-pool list (Aleo entries only). Pool addresses change. Confirm on the pool's official website before use.

HOW POOL PRIORITY WORKS
If Pool 1 can't connect, the miner switches to Pool 2, then Pool 3. If the configuration fails, enter it again and restart. To remove a pool, clear its fields and click **Save**.

4.2 Fan speed and sleep mode

1. Open `Mining setting` › `Hardware configuration`.
2. Tick **Fan Speed**, then select an operating mode or set the fan speed manually.
3. Click **Save**.

CAUTION
Setting the fan speed manually turns off automatic fan control. Watch the temperatures closely. The miner stops mining in **sleep mode**.

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: Configuring mining pools and wallets; Adjusting fan speed.

CHAPTER 05

Monitoring Performance

The AE3 reports hashrate in **GH/s**. Short-term readings move around, so judge performance over hours, not minutes.

5.1 Home page

- The hashrate and hashrate chart appear 5 minutes after the miner connects to a pool. The chart updates every 5 minutes.
- The status card shows whether hashrate, fan speed and miner temperature are **Normal**.
- **5 mins hashrate** and **30 mins hashrate** show recent and smoothed performance.
- Under **Hash board**, check each board's temperature and the fan speeds.
- The pool table shows connection status and accepted and rejected shares.

5.2 What "normal" looks like

≈ 2 GH/s	≈ 3,400 W	< 1 %
12-hour average hashrate	Power draw at the wall	Pool rejection rate

Compare the web hashrate with the pool's figure over 12 hours or more. A large gap usually means a network problem.

5.3 Indicator lights

MACHINE STATUS	INDICATOR LIGHTS
Running normally	D2 blinks · D1, D3, D4 off
Fan abnormality	D1 and D3 blink · D2, D4 off
Network issue	D1 and D2 blink · D3, D4 off
High-temperature alarm	D2 and D3 blink · D1, D4 off
Booting	Red and green lights on both sides stay on
Factory reset in progress	D3 and D4 flash together, then stay on (see 6.4)

SOURCE IceRiver AE3 user manual: Indicator description, Boot, View Hashrate Chart.

CHAPTER 06

Firmware and Maintenance

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

6.1 Upgrading firmware

> **USE THE RIGHT FILE**
> Only install firmware IceRiver publishes for the **AE3**, from iceriver.io/firmware-download or the OneMiners Manuals & Firmware Library. Firmware for KS (Kaspa) models or other AE models isn't compatible.

1. Click **Firmware upgrade**, select the official upgrade package and click **Upgrade**.
2. When the success message appears, click **Reboot** and wait. Don't switch the miner off during the reboot.
3. The firmware upgrade is complete when the miner has restarted. Check the firmware version at the bottom of the page.

6.2 Network settings (optional static IP)

1. Click **IP Settings** and set **Protocol** to **Static**. The factory default is DHCP.
2. Enter the IP information and click **Save**.
3. Click **Reboot** and wait for the miner to restart. Use the new address to reconnect.

6.3 Shutdown and reboot

Shutdown: turn the miner off with its **Power Button**. **Reboot:** click **Reboot** in the bottom-right corner of the home page, then **OK**. Don't switch off power during the reboot.

6.4 Restoring factory settings

1. With the miner running, press and hold the **Reset Button** for 5 seconds, until D3 and D4 start flashing together.
2. Wait for D3 and D4 to stop flashing and stay on. The miner is ready to reboot. Don't switch it off during the reboot.
3. After the reboot, configure your pools and wallet again (Chapter 4) and change the password.

SOURCE IceRiver AE3 user manual: Network Settings, Firmware Upgrade, Factory Reset, Shutdown/Reboot.

6.5 Preventive maintenance

WHEN	TASK
Daily / remotely	Check the 12-hour average hashrate, rejection rate, board temperatures and fan status on the dashboard or OneMiners platform.
Monthly	Check room temperature and humidity are within 0–40 °C and below 90%. Look for dust build-up on the fan guards.
Every 3–6 months	Power off and unplug the miner, then remove dust from the fan guards and intake with dry compressed air. Check that the fans spin freely and the guards aren't dented.
Regularly	Check the power cable and plug for heat marks. Check iceriver.io for new AE3 firmware.

Intervals are OneMiners recommendations; IceRiver doesn't publish a schedule. Clean more often in dusty sites. Don't open the case.

CHAPTER 07

Troubleshooting

Check the indicator lights first (5.3); they tell you whether the problem is fans, network or temperature. Hosted customers: don't attempt repairs yourself; contact OneMiners service.

PROBLEM	WHAT TO CHECK
Miner won't turn on	Check that the power connector isn't loose and the cable is fully inserted. Check that the input voltage is within **200–250 V AC**. Make sure the Power Button is on.
Network port light is off	Check that the Ethernet cable is plugged in at both ends.
Fans don't turn after power-on	Check that the fans and metal guards aren't squeezed or deformed. Check that the pool is connected.
Machine temperature too high	Make sure the miner isn't covered and the room has air convection. Check that the room is below 40 °C and that hot exhaust isn't being drawn back in.
Hashrate below target	Check the fans are working: abnormal fan speed raises temperature and triggers high-temperature protection. Short-term hashrate fluctuates, so judge by the **12-hour average**.
Web hashrate differs a lot from the pool's	Check the network connection.
Browser shows 404 at the miner's IP	Restart the miner and open the web page again.
Power drops to about 150–200 W	The miner reduces power after a network fault. Check the indicator lights and the network connection.
Pool shows not connected	Check the pool address is an **Aleo** pool, not Kaspa. Check the wallet or account format and that the port isn't blocked by a firewall. Add a backup pool.

SOURCE IceRiver AE3 user manual: Common Faults and Solutions. The last row is a OneMiners addition.

ONEMINERS

For a hosted miner, send a description of the lights or error 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 AE3.

8.1 Miner details

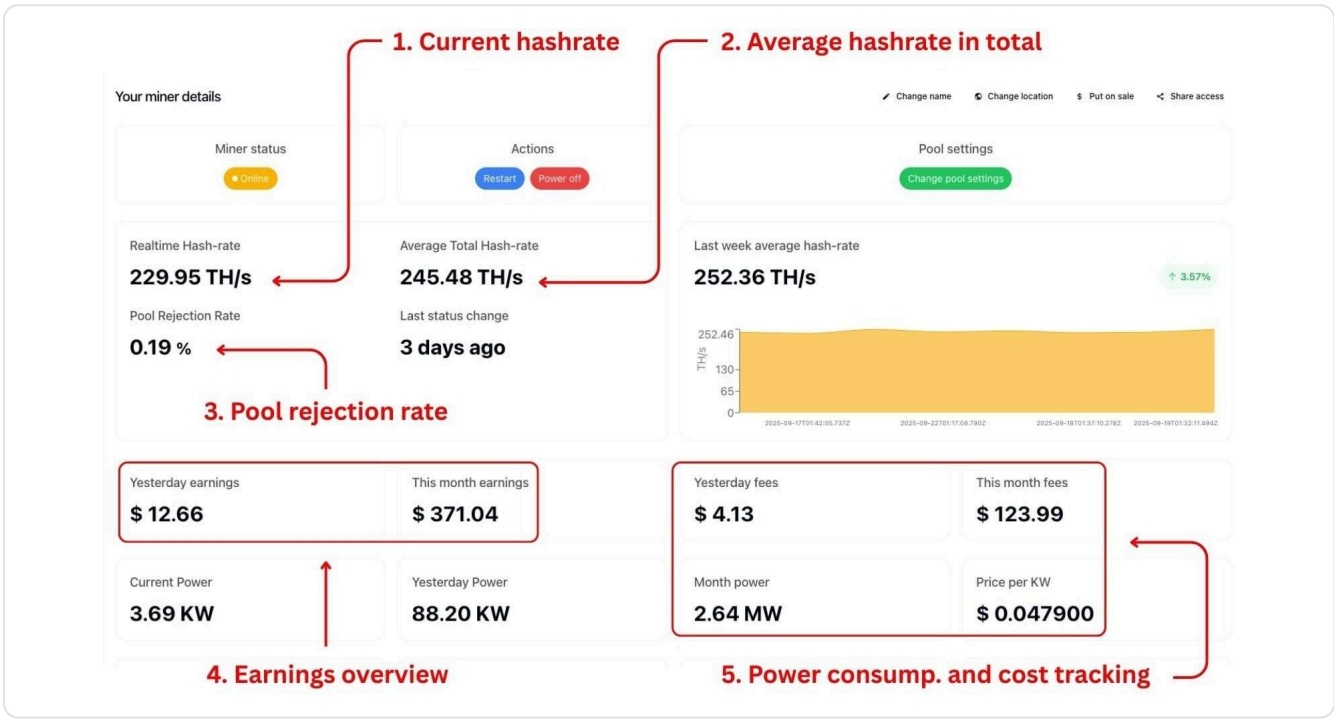


Figure 8-1 Miner details on OneMiners platform v1.2 (example values).

1 · Current hashrate	Real-time hashrate (for the AE3, in GH/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 AE3, expect about 2 GH/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

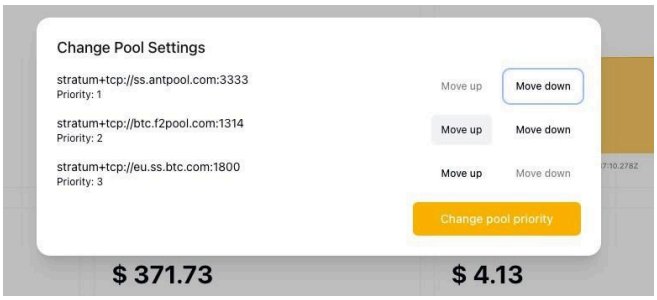


Figure 8-2 Change Pool Settings.

- 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

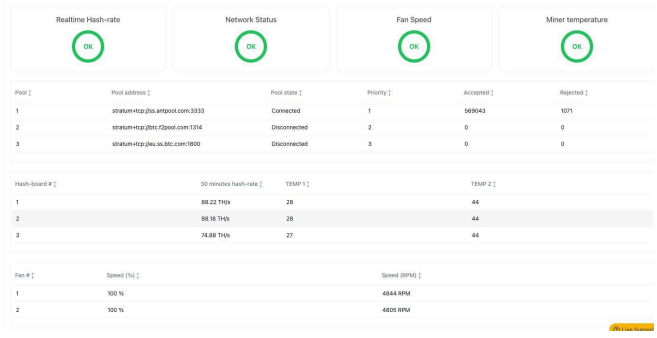


Figure 8-4 Hardware status (example from an air-cooled miner).

- **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 in % and RPM per fan. A slow or stopped fan raises temperatures and triggers high-temperature protection, 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 Aleo miners like the AE3 are accepted at most sites. Ask sales which locations currently host the AE3.

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 AE3, this includes damage from running outside 0–40 °C or 200–250 V AC, blocked airflow, or opening the unit without IceRiver's permission.

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.

CHAPTER 10

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.

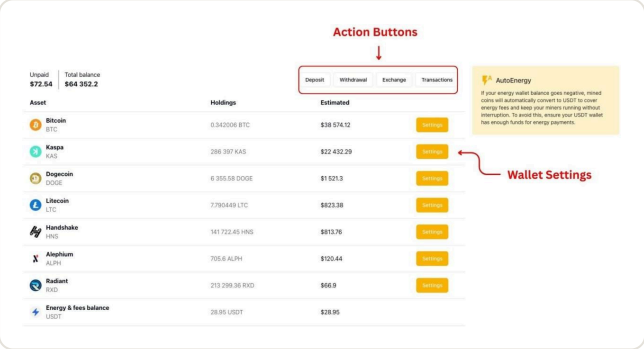


Figure 10-1 Wallet section.

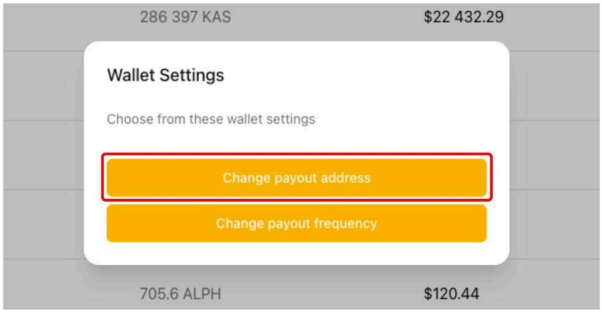


Figure 10-2 Changing the payout address.

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.

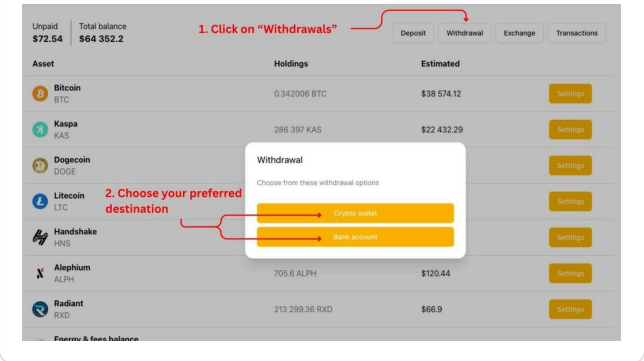


Figure 10-3 Choosing a withdrawal destination.

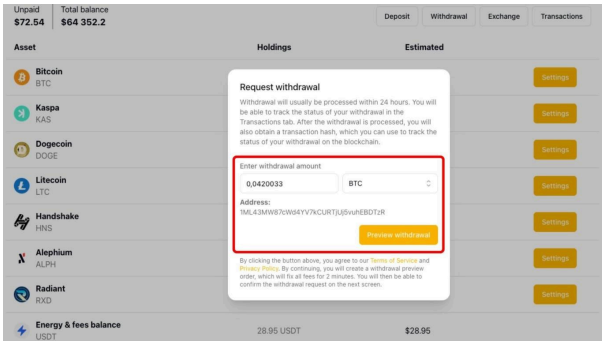


Figure 10-4 Choosing currency and amount.

10.3 Exchange

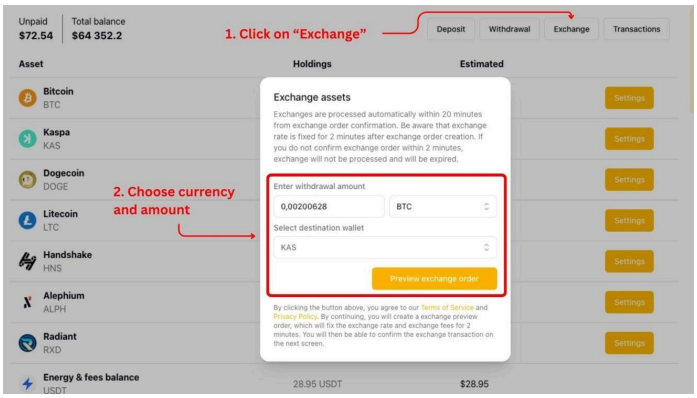


Figure 10-5 Exchanging currencies.

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.

> **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

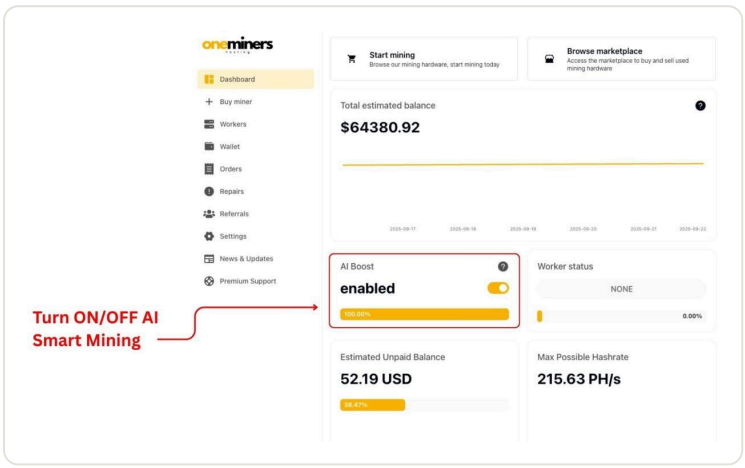


Figure 11-1 AI Boost toggle on the dashboard (platform v1.2).

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.

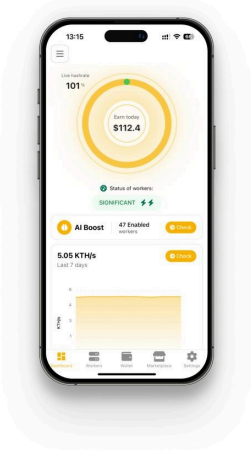
Results depend on hardware and market conditions and aren't guaranteed. More information: oneminers.com/pages/ai-smart-mining.

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

Aleo mining income depends on the ALEO price, network difficulty 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
- Aleo miners collection: oneminers.com/collections/aleo-miners

For an AE3, use 2 GH/s and 3,400 W with your own price per kWh. Estimates aren't financial advice.

12 CHAPTER Official Resources and Support

12.1 Resources

ICERIVER
Firmware downloads
iceriver.io/firmware-download

ICERIVER
Tutorials and IP tool
iceriver.io/tutorial

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

ONEMINERS
Product page
oneminers.com/products/iceriver-ae3-2-gh-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. IceRiver AE3 user manual, IceRiverEU edition (as reproduced in OneMiners manual V1.1): appearance, indicators, precautions, setup, pools, monitoring, administration, troubleshooting.
2. ASIC Miner Value, IceRiver ALEO AE3 (2 GH/s): hashrate, power, dimensions, noise, release date.
3. OneMiners product page, IceRiver AE3 2 GH/s: dimensions, noise, plug type, warranty and hosting statements.
4. Kryptex Pool and MiningNow device pages: cross-checks of hashrate, power, weight and release date.
5. F2Pool, "How to mine Aleo": stratum address and worker format for IceRiver ASICs.
6. OneMiners: 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
V1.3	Nov 2026	Specification table added with sources (V1.1 had none). Kaspa content removed: the worked example used a Kaspa pool with an Aleo wallet, and the pool list mixed Kaspa (kHeavyHash) pools with Aleo ones. Units corrected to GH/s. Dashboard screenshots from a 2023 Kaspa-series unit replaced with a labelled menu map. Warranty, hosting and contact details updated to current OneMiners pages. Stale profitability screenshots replaced with links. Typos fixed. Rebuilt in the OneMiners media-kit design.
V1.2	—	Version published on the OneMiners library. Not reviewed for this revision.
V1.1	Oct 2025	Previous edition (cover read "Document Version 1.0, Jul. 2025").