PROTO · BY BLOCK

Proto Rig
819 TH/s

Air-cooled modular Bitcoin miner · SHA-256 · 9 hashboards



COIN · ALGORITHM
Bitcoin · SHA-256

COOLING
Air · immersion-ready

POWER
208–240 V · 3 PSUs

SOFTWARE
Proto Fleet (open source)

Product Manual

Setup, operation, maintenance and OneMiners hosting guide

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

Contains manufacturer information © Proto (Block, Inc.), summarised for customer reference.

About this manual

This manual covers the **Proto Rig** by Proto, Block's Bitcoin mining hardware unit, in its full configuration of **9 hashboards** (up to **819 TH/s**, **12,000 W**).

Specifications are from Proto's product page. Setup uses **Proto Fleet**, Proto's open-source fleet software. Proto hasn't published a hardware manual that we could access; hardware steps are kept general and marked where unconfirmed.

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	SOFTWARE
9 hashboards · 3 PSUs	**208–240 V · 12 kW**	**0–40 °C · 10–90% RH**	**Proto Fleet**
All modules seated.	Three C20-to-2×C19 cables.	1,300 CFM of hot exhaust.	Docker on 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

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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.

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CHAPTER 01

Product Overview

The Proto Rig is a modular, air-cooled Bitcoin miner announced by Block in August 2025. Hashboards, fans, PSUs and the control board are field-replaceable, and its firmware, software and APIs are open source.

AVAILABILITY

The OneMiners product page lists a September 2025 release and "In Stock", but also states the Proto Rig "is not yet available for general sale" with no confirmed date, and that orders may be substituted or delayed. Check with OneMiners sales before ordering.



Figure 1-1 Proto RIG 819 TH/s. Image: OneMiners product photo.

1.1 Key figures

819 TH/s	12,000 W	14.1–14.65 J/TH
Up to (9 × 91 TH/s)	Up to, from the wall	Proto best case · listing

1.2 Specifications

ITEM	VALUE
PRODUCT	
Model	**Proto Rig**
Algorithm / coin	**SHA-256 · BTC**
Hashrate	**Up to 819 TH/s (up to 91 TH/s per board)**
Power	**Up to 12,000 W (4,000 W per PSU)**
Efficiency	**As low as 14.1 J/TH (Proto) · 14.65 J/TH (listing)**
POWER	

ITEM	VALUE
HARDWARE	
Hashboards	**Up to 9, replaceable and upgradeable**
Fans	**6 × 48 V Delta, up to 9,000 rpm**
Network	**RJ45 Ethernet 10/100M**
Size (W×H×D)	**390 × 290 × 500 mm**
Weight	**110 lb (≈ 50 kg) with 9 boards**

ITEM	VALUE
AC input	**208–240 V, 50/60 Hz**
PSUs	**3 per chassis**
Cables supplied	**3 × 6 ft C20-to-2× C19**
Current	**About 19 A per PSU at 208 V (calculated)**

ITEM	VALUE
Noise	**Needs verification (listing 80 dB)**
ENVIRONMENT	
Operating temperature	**0–40 °C (OneMiners)**
Humidity	**10–90% RH, non-condensing**
Altitude	**≤ 2,000 m**

Each hashboard weighs 5.38 lb (≈ 2.4 kg). Chassis: steel and aluminium with powder coating.

SOURCE Proto, Proto Rig product page (proto.xyz); OneMiners product page (checked 7 Nov 2026).

1.3 Modular design

Hashboards	Up to nine. Proto states repairs and upgrades are tool-free, on the rack, in under 90 seconds; if one board fails, the rest keep mining.
Power	Three PSUs of up to 4,000 W each, designed for field replacement. Proto describes three-phase power balancing.
Fans	Six pull-and-replace 48 V fan modules, 1,300 CFM total.
Controls	Action button, 7-segment display, status indicator, LED and software alerts.
Warranty (Proto)	12 months standard on all system components; extended warranty optional.

SOURCE Proto, Proto Rig product page; Hashrate Index, Proto Rig review.

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
Weight	Proto 110 lb (≈ 50 kg) · OneMiners 55 kg · Mining Now 50 kg	≈ 50–55 kg; two people
Noise	Proto doesn't state it · OneMiners 80 dB	**Needs verification**
Operating temperature	Proto doesn't state it · OneMiners 0–40 °C	0–40 °C until confirmed
Efficiency	Proto "as low as 14.1 J/TH" · 12,000 W ÷ 819 TH/s = 14.65 J/TH	Both shown
Direct web login	Proto's documentation describes management through Proto Fleet only	Use Proto Fleet

CHAPTER 02

Safety and Installation Requirements

At up to 12 kW, the Proto Rig needs data-center-style power planning and airflow. Plan circuits and exhaust before installing it.

2.1 Safety warnings

DANGER · ELECTRICAL

- Connect to **earthed** 208–240 V circuits planned by a licensed electrician for up to 12 kW.
- Each PSU draws up to 4,000 W (about 19 A at 208 V). Use PDUs and circuits rated for continuous load at that current.
- Switch off and isolate power before replacing a PSU.

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	**208–240 V AC, 50/60 Hz**
Typical load	**Up to 12,000 W (3 PSUs × 4,000 W)**
Current	**About 19 A per PSU at 208 V · 16.7 A at 240 V (calculated)**
Cables	**3 × C20-to-2× C19, supplied**

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	0–40 °C (OneMiners listing)
Humidity	10–90% RH, non-condensing
Altitude	≤ 2,000 m
Airflow	1,300 CFM; exhaust must be removed from the room

- Keep intake and exhaust clear and don't let hot exhaust air flow back into the intake.
- At high fan noise (80 dB listed), the Proto Rig isn't suitable for living or office spaces.
- Avoid dust, salt air and corrosive gases; clean more often in dusty sites.

SOURCE Proto, Proto Rig product page; OneMiners product page.

03 CHAPTER Initial Setup

These steps take a new Proto Rig 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 label and that all 9 hashboard slots, the fan modules and the three PSUs are seated. Keep the packing.

1. **Network**
   Connect an Ethernet cable to the RJ45 (10/100M) port on a network the Fleet host can reach.
2. **Power**
   Connect the three supplied C20-to-2×C19 power cables to circuits planned for up to 12 kW (2.2). Switch on the circuits.
3. **Check**
   Watch the 7-segment display and status indicator for start-up and alerts.

3.2 Installing Proto Fleet

Proto Rigs are managed with **Proto Fleet**, Proto's open-source, self-hosted fleet software. It runs in Docker on a computer on the same network.

1. Install Docker Desktop (or Docker Engine with Compose) and make sure it's running. On Linux and macOS, enable host networking in Docker Desktop (`Settings` › `Resources` › `Network`).
2. Run the install script: `bash <(curl -fsSL https://fleet.proto.xyz/install.sh)`
3. Open the Fleet URL the installer prints (don't assume localhost), and create an administrator username and password on the Welcome screen.

3.3 Discovering and pairing the Rig

1. Fleet opens miner discovery. Enter the IP addresses or subnets to scan.
2. Select the Proto Rig when it appears and pair it.
3. If a reachable Rig never appears, check the Fleet host can reach it on **port 443** (Proto Rig discovery). On Windows (WSL2), add scan targets manually.

SOURCE Proto, Fleet documentation (docs.proto.xyz): installation, discovery and pairing.

04 CHAPTER Mining Configuration

The Proto Rig mines SHA-256 coins, mainly Bitcoin (BTC). Pools are set in Proto Fleet.

4.1 Setting up pools

After pairing, set fleet-wide defaults such as mining pools under **Settings** in Proto Fleet. Pool editing is supported for Proto Rig. Pools aren't part of the first-run wizard.

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.protorig01`.
Password	Optional. Most pools accept any value, such as `x`.

COIN AND POOL
The Proto Rig mines SHA-256; this manual assumes Bitcoin (BTC).

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 Proto, Fleet documentation: Mining pools.

05 CHAPTER Monitoring Performance

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

5.1 What "normal" looks like

≈ 819 TH/s	≈ 12,000 W	< 1 %
With 9 hashboards	Wall power	Pool rejection rate

Proto tolerances weren't available. With fewer boards fitted, hashrate and power scale down (about 91 TH/s per board).

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; LED and software alerts flag problems.
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 and software

- Proto publishes open-source firmware, software and APIs for the Rig. Manage updates through Proto Fleet and Proto's official channels.
- Fleet also offers start/stop, power modes, reboot, scheduling, team invites and API keys.

6.2 Field-replaceable parts

- Fan modules, hashboards, the control board and PSUs are designed for field replacement.
- Proto states repairs and upgrades are tool-free, on the rack, and take under 90 seconds. If one hashboard fails, the rest keep mining.
- Switch off and isolate power before replacing a PSU. Hosted customers: leave replacements to the OneMiners repair team.

SOURCE Proto, Proto Rig product page and Fleet documentation.

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 all three PSUs are powered and their circuits are live (208–240 V).
No network / IP not found	Check the cable and that the Fleet host can reach the Rig on port 443. Add the Rig's subnet as a scan target.
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 0–40 °C, fans are running and intake and exhaust are clear. Clean, then restart.
One board missing	The Rig keeps mining on the remaining boards. Check the board is fully seated; replace it if the alert stays.
Smell, unusual sound or smoke	Switch off immediately and contact service.

SOURCE Based on Proto 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 Proto Rig.

8.1 Miner details

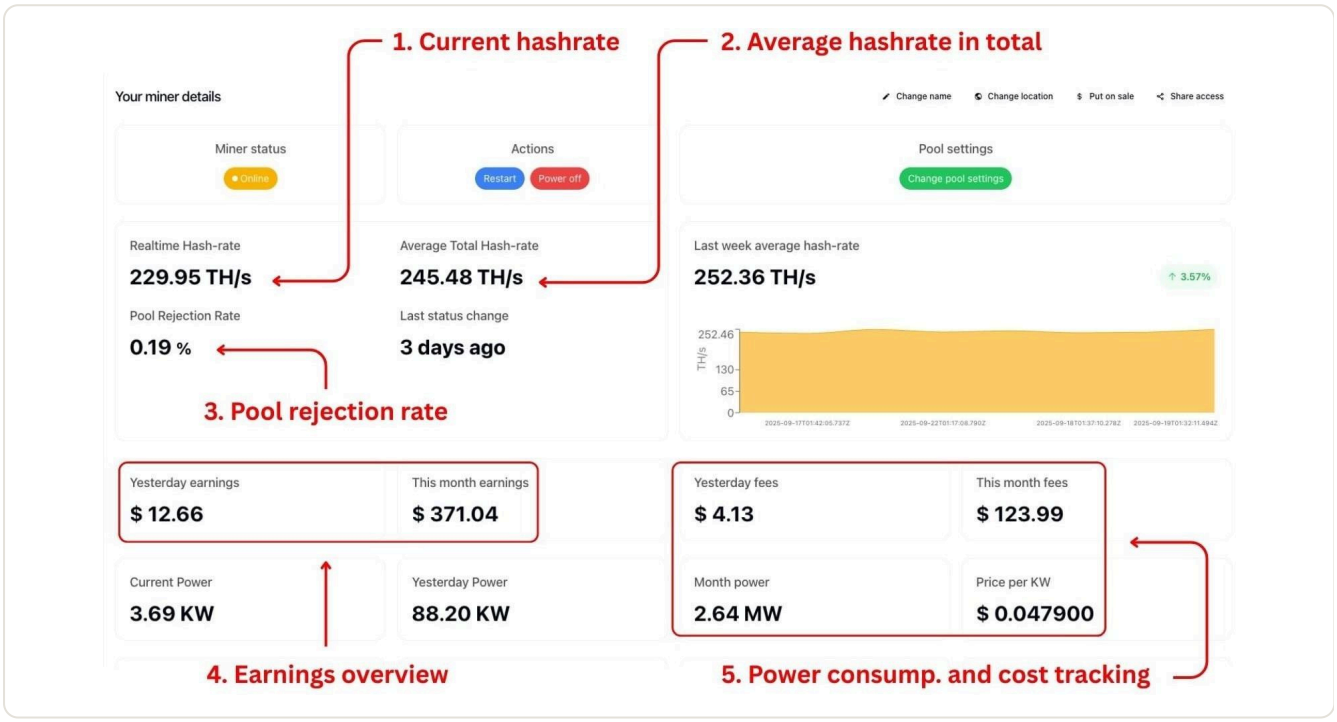


Figure 8-1 Miner details on OneMiners platform v1.2 (example values).

1 · Current hashrate	Real-time hashrate (for the Proto Rig, in TH/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 Proto Rig with 9 hashboards, expect an average close to 819 TH/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

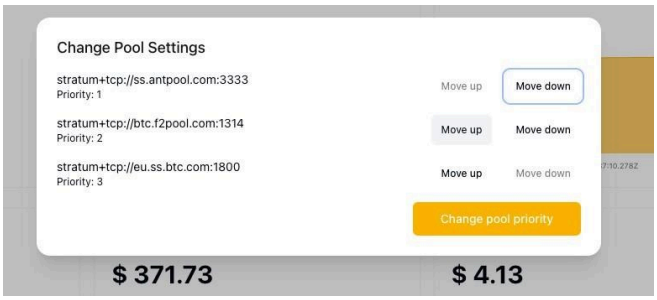


Figure 8-2 Change Pool Settings.

- 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

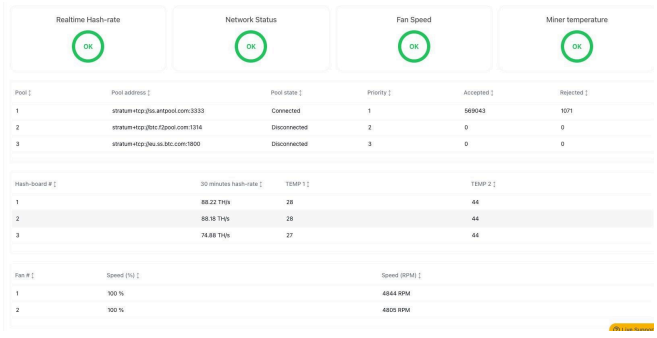


Figure 8-4 Hardware status (example from an air-cooled miner).

- **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 (6 fan modules on the Proto Rig). 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 Proto Rig are accepted at most sites. Ask sales which locations currently host the Proto Rig.

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 Proto Rig, this includes damage from running outside 208–240 V or the site limits, undersized circuits, blocked airflow, or unauthorised modification.

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.

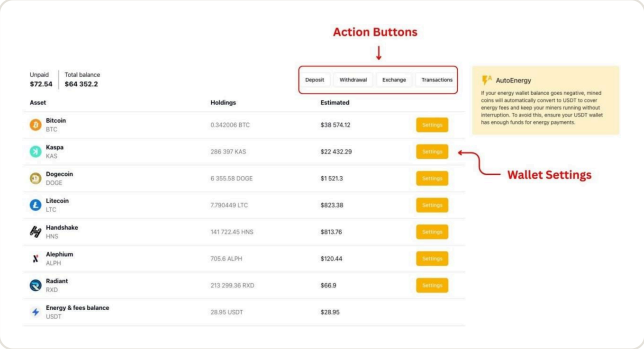


Figure 10-1 Wallet section.

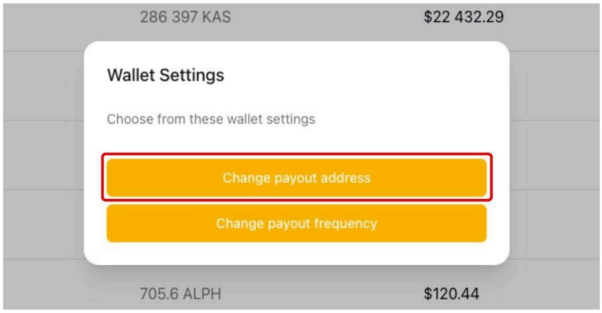


Figure 10-2 Changing the payout address.

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.

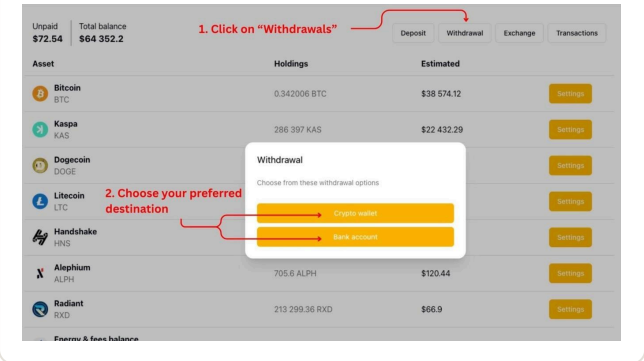


Figure 10-3 Choosing a withdrawal destination.

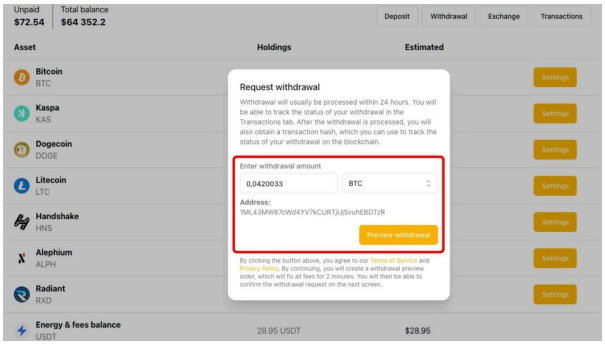
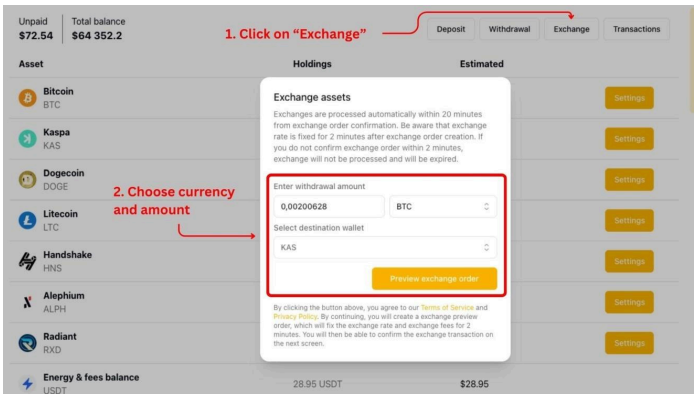


Figure 10-4 Choosing currency and amount.

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

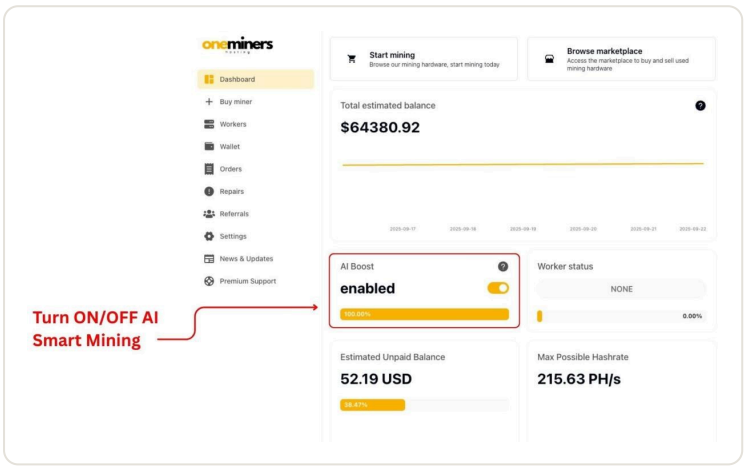


Figure 11-1 AI Boost toggle on the dashboard (platform v1.2).

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.

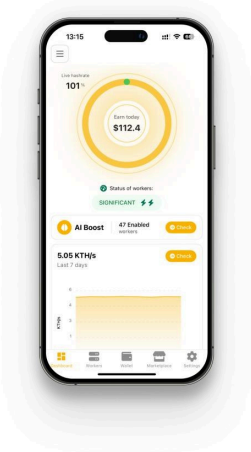
Results depend on hardware and market conditions and aren't guaranteed. More information: oneminers.com/pages/ai-smart-mining.

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 Proto Rig depends on the BTC price, network difficulty, transaction fees 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
- Bitcoin miners collection: oneminers.com/collections/bitcoin-miners

For the Proto Rig, use 819 TH/s and 12,000 W with your own price per kWh. Estimates aren't financial advice.

12 CHAPTER Official Resources and Support

12.1 Resources

PROTO
Proto Rig
proto.xyz/products/rig

PROTO
Fleet installation
docs.proto.xyz/fleet/installation

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

ONEMINERS
Product page
oneminers.com/products/proto-rig-819-th-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. Proto, Proto Rig product page (proto.xyz): hashrate, power, PSUs, cables, fans, size, weight, environment, controls, warranty.
2. Proto, Fleet documentation (docs.proto.xyz): installation, discovery, pairing, pools.
3. Hashrate Index, Proto Rig review: modular design and repair claims.
4. OneMiners product page, Proto RIG 819 TH/s: voltage, plug, weight, noise, temperature, availability notice.
5. Mining Now, Proto Rig: announcement date and weight.
6. 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. Proto specifications with conflicts listed in 1.4, availability notice, power planning, Proto Fleet installation and pairing, pools, field-replaceable parts. Current warranty, hosting and contact details.