BITAXE

Gamma 601

1.2 TH/s

Open-source solo Bitcoin miner · BM1370



COIN · ALGORITHM
Bitcoin · SHA-256

COOLING
Air (fans)

POWER
5 V DC barrel

RELEASED
Aug 2024

Product Manual

Setup, operation, maintenance and OneMiners hosting guide

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

Contains open-source project documentation (Bitaxe), summarised for customer reference.

About this manual

This manual covers the **Bitaxe Gamma 601**, an open-source home miner rated at about **1.2 TH/s** and **17 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	NETWORK	PLACE
Unit is a Gamma 601	**5 V / 6 A PSU**	**2.4 GHz Wi-Fi**	**Vented spot**
Keep the packing.	Not always included.	5 GHz not supported.	Away from liquids and children.

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, Bitaxe, 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 Bitaxe Gamma 601 is an open-source, single-chip (Bitmain BM1370) Bitcoin miner running AxeOS, mainly used for solo "lottery" mining at home.



Figure 1-1 Bitaxe Gamma 601 1.2 TH/s. Image: OneMiners product photo.

1.1 Key figures

1.2 TH/s	17 W	14.2 J/TH
Typical hashrate	Power on wall	Efficiency

1.2 Specifications

ITEM	VALUE
PRODUCT	
Model / version	**Bitaxe Gamma 601**
Algorithm / coins	**SHA-256 · BTC / BCH / BSV**
Hashrate	**1.2 TH/s**
Power on wall	**17 W**
Efficiency	**14.2 J/TH**
POWER	
Input	**5 V DC, 5.5 × 2.1 mm barrel jack**
Power	**≈ 15–25 W stock**
Recommended PSU	**5 V / 6 A (30 W) barrel-jack supply**
Mains	**The PSU's own plug**

ITEM	VALUE
HARDWARE	
Network	**Wi-Fi 2.4 GHz**
Size (L×W×H)	**Small board on a stand**
Weight	**≈ 1 kg packed (OneMiners)**
Noise	**≈ 35 dB (OneMiners)**
ENVIRONMENT	
Operating temperature	**Needs verification**

SOURCE D-Central, "Bitaxe Gamma setup guide"; OneMiners product page.

1.3 Hardware

Chip	One Bitmain BM1370.
Controller	ESP32-S3 with 2.4 GHz Wi-Fi; small display.
Power	5 V DC barrel jack.

SOURCE D-Central, "Bitaxe Gamma setup guide"; 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
Model name	OneMiners lists it as "Bitaxe Gamma 601 – Lucky miner"; Lucky Miner is a separate brand of Bitaxe-style miners	Check the board marking
Plug	OneMiners lists C13 (that is a mains cord); the board takes 5 V DC	Use a 5 V / 6 A PSU
PSU	Not always included	Check the box contents

02 CHAPTER Safety and Installation Requirements

The Gamma 601 runs on low-voltage DC from a separate power supply and draws about 17 W.

2.1 Safety warnings

DANGER · POWER

- Use a 5 V DC supply rated at least 6 A with the right barrel plug. A higher voltage destroys the board.
- Don't power it from a USB-C phone charger.

CAUTION · PLACEMENT

- The Gamma 601 is an open circuit board. Keep it away from liquids, metal objects and children, and handle it by the edges or stand.
- Keep the fan and heatsink unobstructed; the chip gets hot.

2.2 Power supply

Input	**5 V DC, 5.5 × 2.1 mm barrel jack**
Power	**≈ 15–25 W stock**

Recommended PSU	**5 V / 6 A (30 W) barrel-jack supply**
Mains	**The PSU's own plug**

2.3 Where to put it

CONDITION	REQUIREMENT
Room	Normal indoor temperature; keep the fan and heatsink unobstructed
Surface	Stable, dry, non-flammable
Noise	≈ 35 dB (OneMiners)

SOURCE D-Central, "Bitaxe Gamma setup guide"; OneMiners product page.

03 CHAPTER Initial Setup

These steps take a new Gamma 601 from the box to mining.

3.1 Powering on

- Confirm the unit is the **Bitaxe Gamma 601**. Check whether a 5 V power supply is included.

1. **Power**
   Connect the DC power supply. There is no power switch; the miner boots when powered (15–30 s).

3.2 Connecting to Wi-Fi

1. On your phone or laptop, join the open Wi-Fi network `AxeOS_XXXX` the miner creates.
2. If the setup page doesn't open by itself, browse to `http://192.168.4.1`.
3. Enter your **2.4 GHz** Wi-Fi name and password (case-sensitive) and save. The miner restarts and joins your network.

3.3 Opening the dashboard

1. Find the miner's new IP address on its screen (if fitted), in your router's client list ("AxeOS" or "ESP32"), or try `http://axeos.local`.
2. Open that address in a browser on the same network. AxeOS has no login by default.

SOURCE D-Central, "Bitaxe Gamma setup guide" and "NerdQaxe++ setup guide"; ESP-Miner (AxeOS) releases on GitHub.

04 CHAPTER Mining Configuration

The Gamma 601 mines Bitcoin (SHA-256), usually on a solo pool.

4.1 Setting up the pool

1. Open the **Mining / Stratum** settings in AxeOS.
2. Enter the pool URL and port (for example `public-pool.io`, port `21496`), and as user your Bitcoin address, optionally followed by `.device-name`. Password `x`.
3. Save and restart.

> **SOLO POOLS**
> Most home miners are pointed at a solo pool such as Public Pool, CKPool Solo (`solo.ckpool.org:3333`) or OCEAN (`mine.ocean.xyz:3334`). A solo block pays the full reward to the address you enter, so check it carefully; a wrong address loses the reward.

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 `bc1q…yourwallet.gamma601`.
Password	Optional. Most pools accept any value, such as `x`.

> **COIN AND POOL**
> The miner mines Bitcoin (SHA-256). For a solo pool, enter your own Bitcoin address as the user.

> **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.

SOURCE D-Central, "Bitaxe Gamma setup guide" and "NerdQaxe++ setup guide"; ESP-Miner (AxeOS) releases on GitHub.

05 CHAPTER Monitoring Performance

Check the dashboard now and then.

5.1 What normal looks like

≈ 1.2 TH/s	≈ 17 W	< 1 %
Stock settings	Power	Rejected shares

Stock settings; overclocked units can reach 1.4–1.8 TH/s with better cooling (D-Central).

5.2 What to watch

VALUE	MEANING
Hashrate	Shown on the dashboard (and the screen, if fitted). Judge by the average, not the instant value.
Chip temperature	Keep it in the safe range shown by the firmware; improve airflow if it climbs.
Best difficulty / shares	Accepted shares show the pool is receiving work. For solo mining, "best difficulty" shows your best share so far.

06 CHAPTER Firmware and Maintenance

Keep the firmware current and the fan clean.

6.1 Firmware updates

1. Download the matching `.bin` file from the ESP-Miner (AxeOS) GitHub releases for your board.
2. In AxeOS open **System** › **OTA Update**, upload the file and wait for the restart. Note your settings first; an update can reset them. Never cut power during an update.

6.2 Tuning and reset

- Frequency and core voltage can be raised in AxeOS for more hashrate, at the cost of heat and stability. Change in small steps and back off if it becomes unstable.
- Reset: **System** › **Reset to Defaults**; the miner restarts into its setup hotspot.

SOURCE D-Central, "Bitaxe Gamma setup guide" and "NerdQaxe++ setup guide"; ESP-Miner (AxeOS) releases on GitHub.

07 CHAPTER Troubleshooting

Start with the symptom table.

SYMPTOM	CHECK
Doesn't start	Check the supply is 5 V DC, 5.5 × 2.1 mm barrel jack and the power cord is fully seated and rated for the current.
No setup hotspot	Wait up to a minute after power-on; re-plug the power if it still doesn't appear.
Can't join Wi-Fi	Use a 2.4 GHz network (5 GHz isn't supported) and check the password; names and passwords are case-sensitive.
No shares on the pool	Re-check the pool address, port and worker (your wallet address for solo pools).
Overheating or instability	Return frequency and voltage to stock and improve airflow.

SOURCE D-Central, "Bitaxe Gamma setup guide" and "NerdQaxe++ setup guide"; ESP-Miner (AxeOS) releases on GitHub.

ONEMINERS
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 Gamma 601.

8.1 Miner details

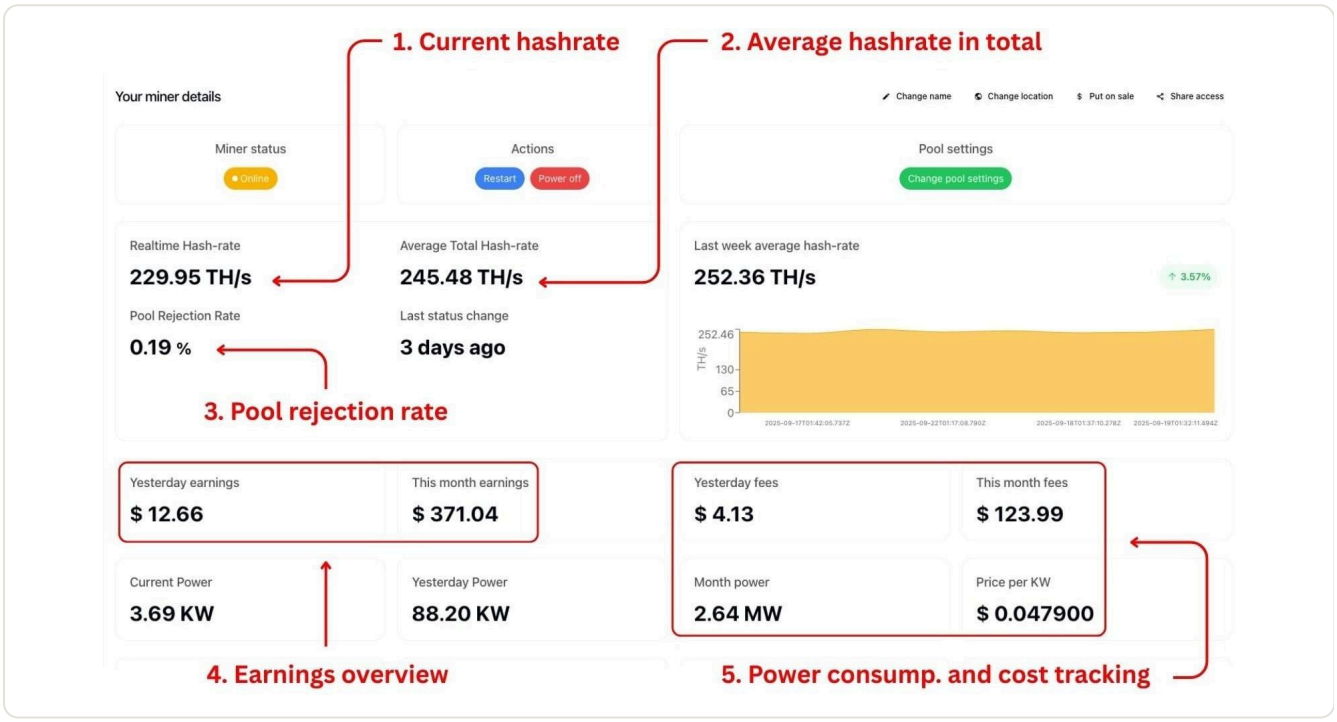


Figure 8-1 Miner details on OneMiners platform v1.2 (example values).

1 · Current hashrate	Real-time hashrate (for the Gamma 601, 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 Gamma 601, expect about 1.164–1.236 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

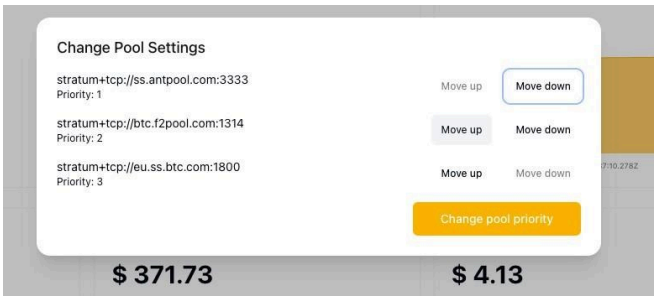


Figure 8-2 Change Pool Settings.

- 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

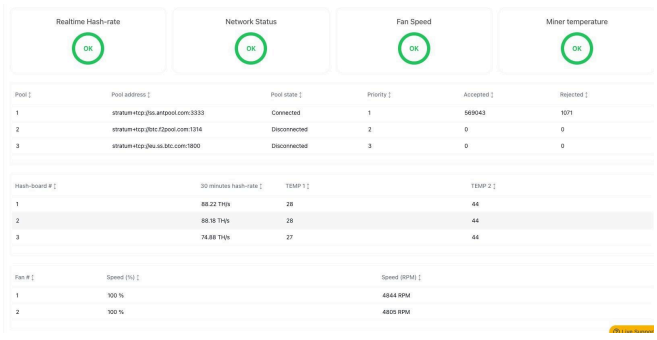


Figure 8-4 Hardware status (example from an air-cooled miner).

- **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 (1 fan on the Gamma 601). 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.
- Home miners like the Gamma 601 are usually run at home. If you want one hosted, ask sales which locations accept it.

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 Gamma 601, this includes damage from running outside **Needs verification** or 5 V DC, 5.5 × 2.1 mm barrel jack, 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.

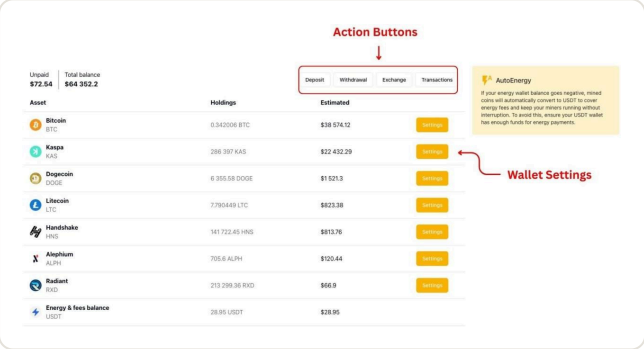


Figure 10-1 Wallet section.

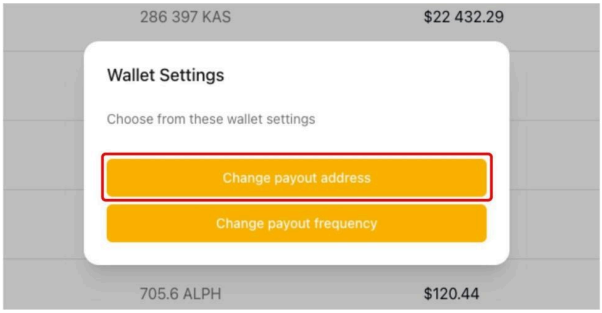


Figure 10-2 Changing the payout address.

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.

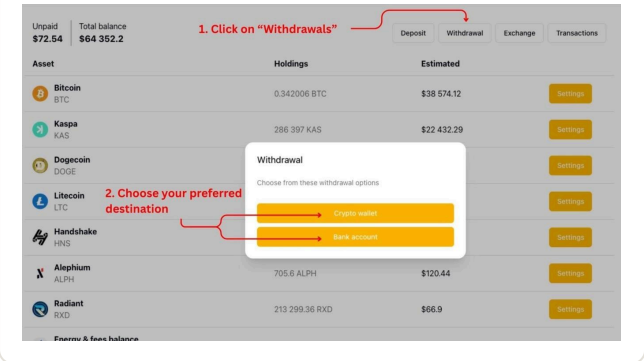


Figure 10-3 Choosing a withdrawal destination.

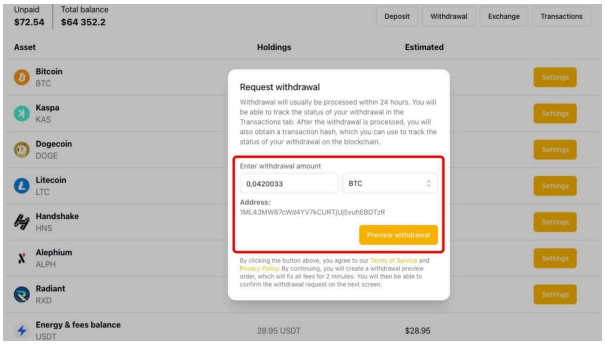


Figure 10-4 Choosing currency and amount.

10.3 Exchange

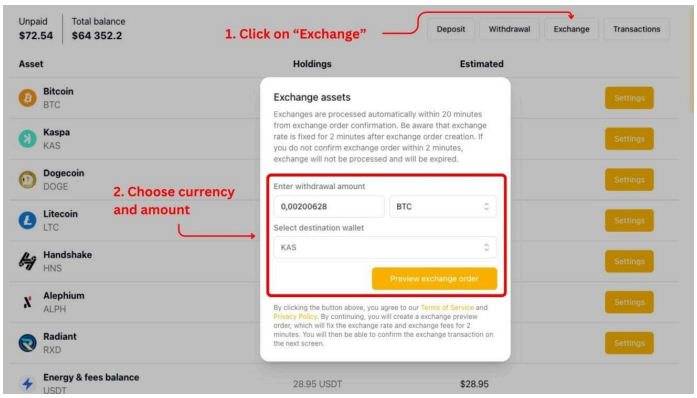


Figure 10-5 Exchanging currencies.

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

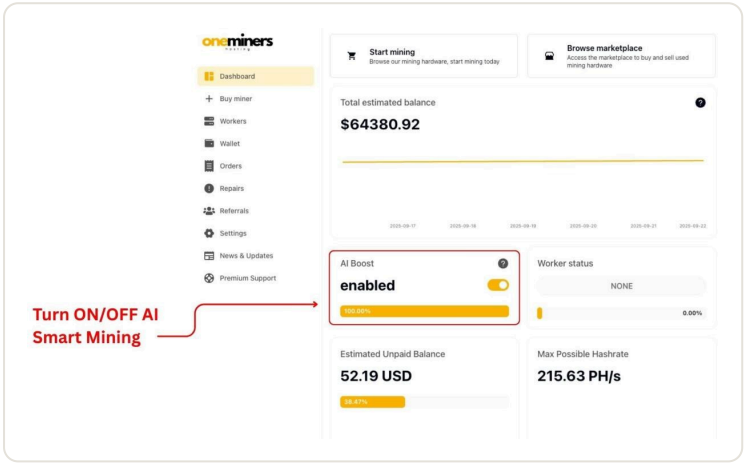


Figure 11-1 AI Boost toggle on the dashboard (platform v1.2).

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.

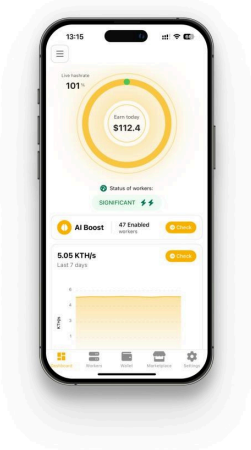
Results depend on hardware and market conditions and aren't guaranteed. More information: oneminers.com/pages/ai-smart-mining.

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

Mining income from the Gamma 601 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 Gamma 601, use 1.2 TH/s and 17 W with your own price per kWh. Estimates aren't financial advice.

12 CHAPTER Official Resources and Support

12.1 Resources

OPEN SOURCE
ESP-Miner (AxeOS) firmware
github.com/skot/ESP-Miner

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

ONEMINERS
Product page
oneminers.com/products/bitaxe-lucky-miner-1-2-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

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+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. D-Central, "Bitaxe Gamma setup guide": chip, hashrate, power, 5 V input, PSU, Wi-Fi, AxeOS setup, pools, tuning, OTA update, reset.
2. OneMiners product page, "Bitaxe Gamma 601 – Lucky miner – 1.2 TH/s".
3. 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.