NERDMINER

NerdOCTaxe 12 TH/s

Open-source solo Bitcoin miner · 8 × BM1370



COIN · ALGORITHM
Bitcoin · SHA-256

COOLING
Air (fans)

POWER
12 V DC · 20 A

RELEASED
2025

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 (NerdMiner), summarised for customer reference.

About this manual

This manual covers the **NerdMiner NerdOCTaxe**, an open-source home miner rated at about **12 TH/s** and **240 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 NerdOCTaxe	**12 V / 20 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, NerdMiner, 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 NerdOCTaxe is an open-source, eight-chip (Bitmain BM1370) Bitcoin miner with a colour display, running AxeOS-based firmware for solo mining at home.



Figure 1-1 NerdMiner NerdOCTaxe 12 TH/s. Image: OneMiners product photo.

1.1 Key figures

12 TH/s	240 W	20.0 J/TH
Typical hashrate	Power on wall	Efficiency

1.2 Specifications

ITEM	VALUE
PRODUCT	
Model / version	**NerdMiner NerdOCTaxe**
Algorithm / coins	**SHA-256 · BTC / BCH / BSV**
Hashrate	**12 TH/s**
Power on wall	**240 W**
Efficiency	**20.0 J/TH**
POWER	
Input	**12 V DC**
Power	**≈ 160 W (9.6 TH/s, Rev 1/2) · ≈ 200–240 W (12 TH/s, Rev 3.1)**
Recommended PSU	**12 V / 20 A (240 W) minimum**
Mains	**The PSU's own plug**

ITEM	VALUE
HARDWARE	
Network	**Wi-Fi 2.4 GHz**
Size (L×W×H)	**Board on a stand with two coolers**
Weight	**Needs verification**
Noise	**≈ 40 dB**
ENVIRONMENT	
Operating temperature	**Needs verification**

SOURCE Solo Satoshi, "What is the NerdOctaxe?"; OneMiners product pages.

1.3 Hardware

Chips	Eight Bitmain BM1370.
Display	1.9-inch LilyGo colour LCD.
Cooling	Two low-profile coolers.

SOURCE Solo Satoshi, "What is the NerdOctaxe?"; OneMiners product pages.

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
Revisions	9.6 TH/s is the original Rev 1/2; 12 TH/s is Rev 3.1 (also sold as "Titan" with overclocked settings)	Check your board revision
Connector	Not stated in the sources checked	Check the board
OneMiners listing	No specification table on the product pages	Solo Satoshi values

02 CHAPTER Safety and Installation Requirements

The NerdOCTaxe runs on low-voltage DC from a separate power supply and draws about 240 W.

2.1 Safety warnings

DANGER · POWER

- Use a 12 V DC supply rated at least 20 A (240 W). An undersized supply overheats or shuts down.
- Don't connect a higher-voltage supply.

CAUTION · PLACEMENT

- The NerdOCTaxe 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	**12 V DC**
Power	**≈ 160 W (9.6 TH/s, Rev 1/2) · ≈ 200–240 W (12 TH/s, Rev 3.1)**

Recommended PSU	**12 V / 20 A (240 W) minimum**
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	≈ 40 dB

SOURCE Solo Satoshi, "What is the NerdOctaxe?"; OneMiners product pages.

03 CHAPTER Initial Setup

These steps take a new NerdOCTaxe from the box to mining.

3.1 Powering on

- Confirm the unit is the **NerdMiner NerdOCTaxe**. Check whether a 12 V / 20 A 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 NerdOCTaxe 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.octaxe`.
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

≈ 12 TH/s	≈ 240 W	< 1 %
Stock settings	Power	Rejected shares

Rev 3.1 stock about 12 TH/s at 200–240 W; Rev 1/2 about 9.6 TH/s at 160 W (Solo Satoshi).

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 12 V DC 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 NerdOCTaxe.

8.1 Miner details

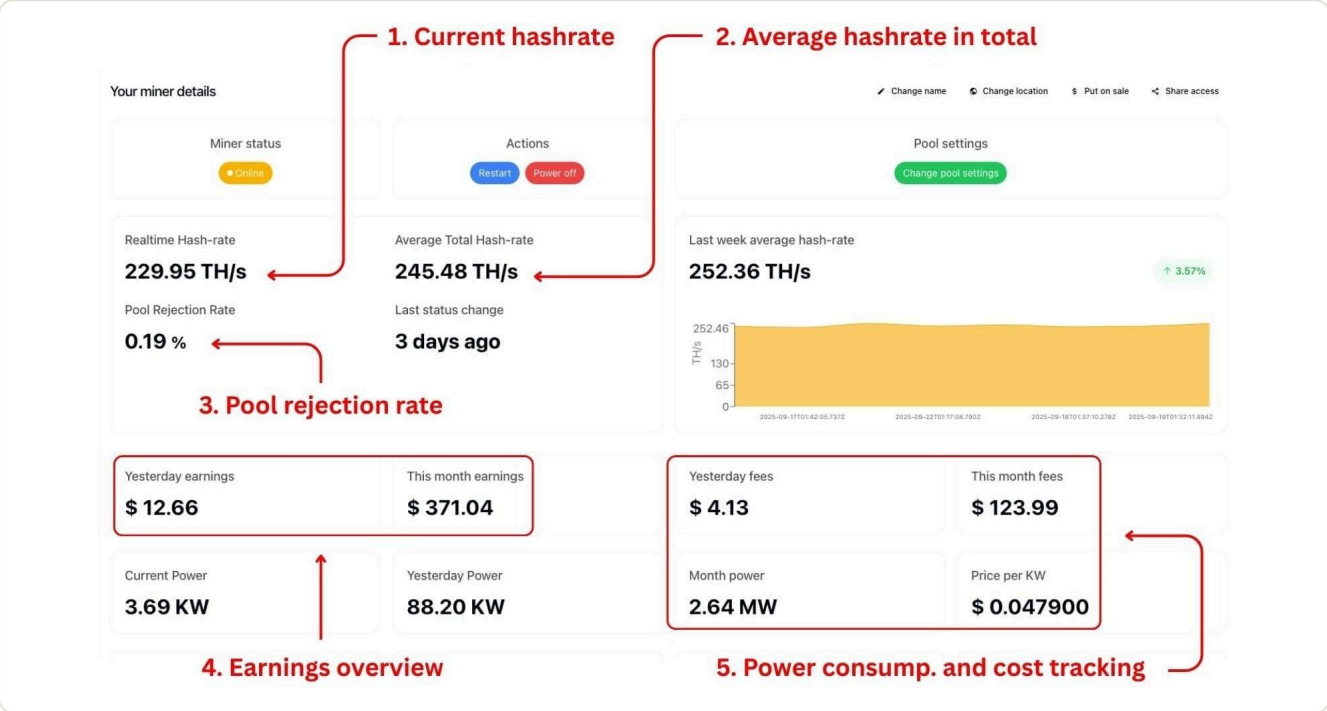


Figure 8-1 Miner details on OneMiners platform v1.2 (example values).

1 · Current hashrate	Real-time hashrate (for the NerdOCTaxe, 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 NerdOCTaxe, expect about 11.64–12.36 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

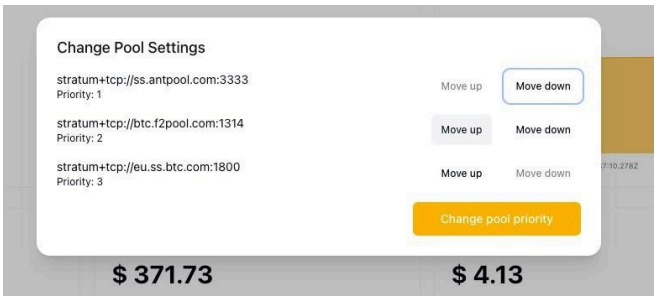


Figure 8-2 Change Pool Settings.

- 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

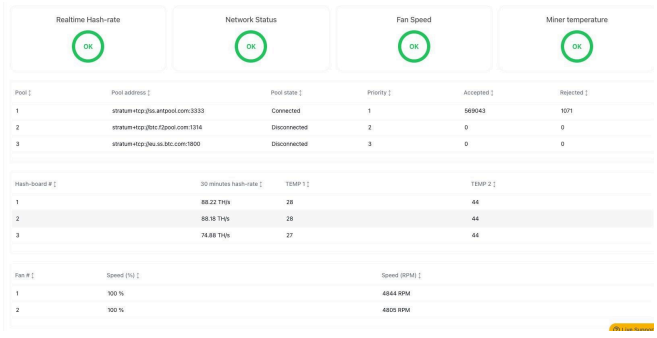


Figure 8-4 Hardware status (example from an air-cooled miner).

- **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 NerdOCTaxe). 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 NerdOCTaxe 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 NerdOCTaxe, this includes damage from running outside **Needs verification** or 12 V DC, 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.

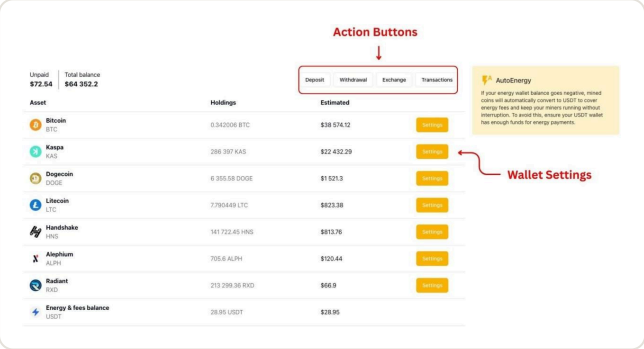


Figure 10-1 Wallet section.

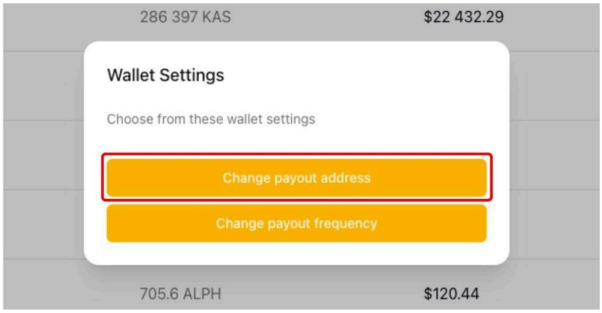


Figure 10-2 Changing the payout address.

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.

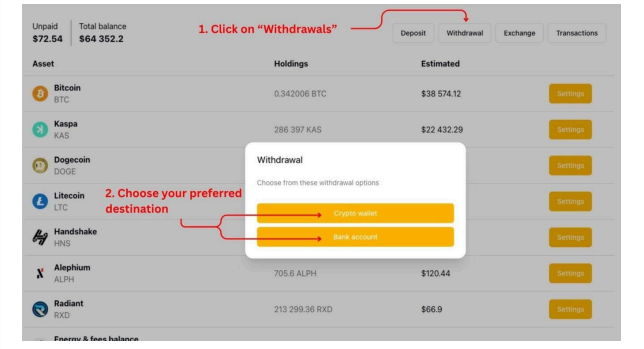


Figure 10-3 Choosing a withdrawal destination.

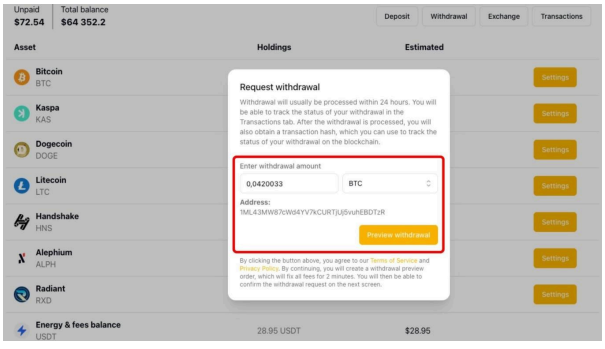
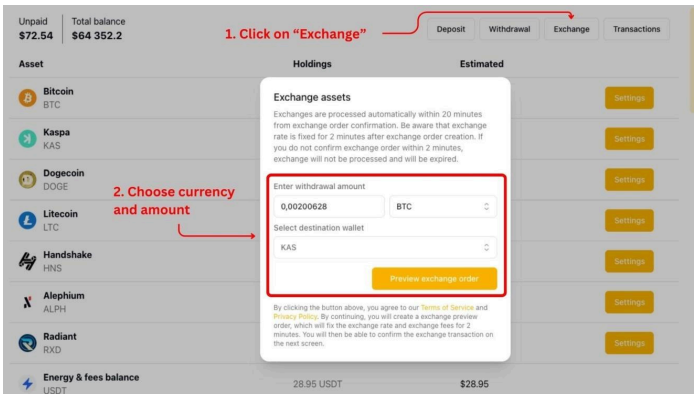


Figure 10-4 Choosing currency and amount.

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

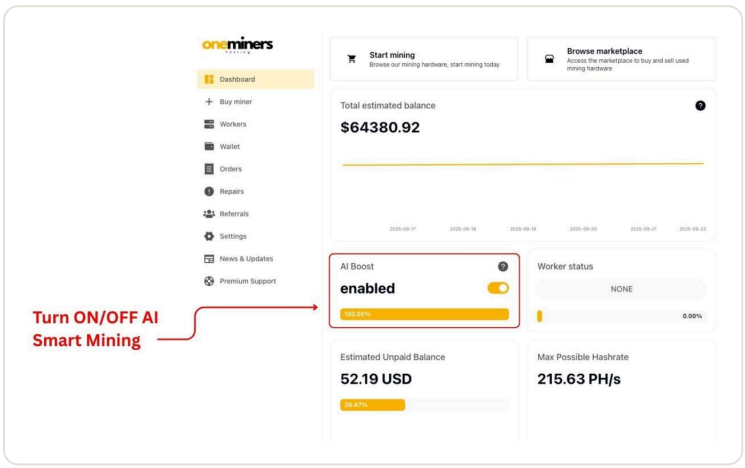


Figure 11-1 AI Boost toggle on the dashboard (platform v1.2).

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.

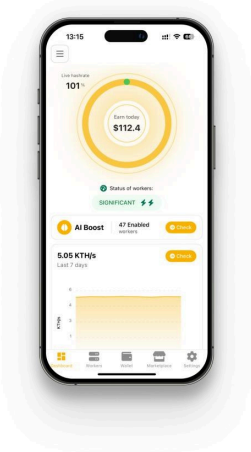
Results depend on hardware and market conditions and aren't guaranteed. More information: oneminers.com/pages/ai-smart-mining.

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 NerdOCTaxe 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 NerdOCTaxe, use 12 TH/s and 240 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/nerdminer-nerdoctaxe-12t-12-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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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. Solo Satoshi, "What is the NerdOctaxe?": chips, hashrate and power by revision, 12 V / 20 A supply, display, Wi-Fi, firmware, noise.
2. OneMiners product pages, NerdOCTaxe 9.6T and 12T.
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.