

NERD **OCTAXE** γ



UP TO
12 TH/S

BITRONICS

NERD
MINER

Bitaxe

OSMU
OPEN SOURCE MINERS UNITED

NERO OCTAXE 7

* 8× BM1370 ASIC Chips (from Antminer S21 Pro)

- Delivers up to 12 TH/s of pure hashing power
- Energy efficiency of ~15,8 W/TH

* Driven by Open Source

- Built on Bitaxe project
- Powered by ESP-Miner + AxeOS

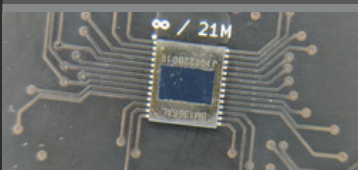
Full transparency, full control

* Easy & Intuitive

- Web interface for simple setup
- Real-time performance monitoring
- Adjust your settings with just a click

BM1370 ASIC CHIP

1,2TH/s Bitmain ASIC
chip working at low
temperature with fan



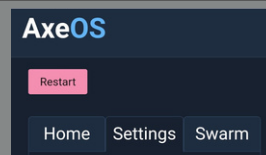
MINER STATS SCREEN

HASHRATE BITCOIN PRICE SETTINGS



AXEOS WEBCONFIG

Global minery data current
hashrate, miner config,
logs...



FULL **SETUP** GUIDE

If you want to check all the details, follow the full guide scanning the QR code.

For any other question contact Bitronics team.



QUICK SETUP

Required time: 5 minutes

1 - Power up your Nerdoctaxe with its power adapter (12V /20A). **Important:** Don't use any other power adapter.

2 - Wait until the text "**Connect to ssid: NerdQaxe_XXXX**" appears on the screen, and then from a mobile phone search for the **NerdQaxe_XXXX** wifi network and connect to it.

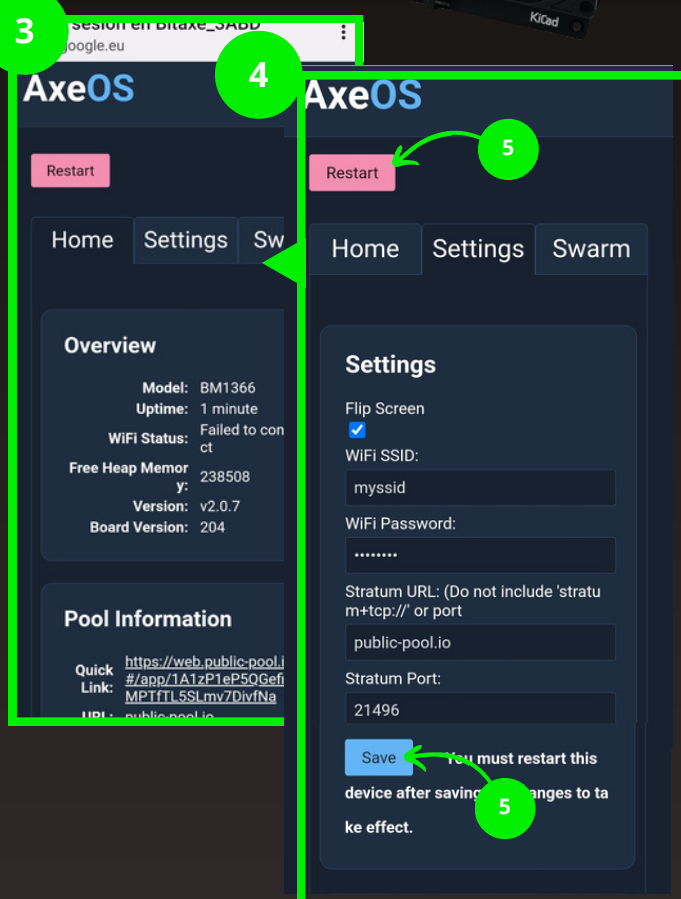
3 - Once connected, the following menu will be shown (3). Click on **Settings** to setup.

4 - Setup miner parameters:

- **WiFi/Password:** network credentials were you want to connect to.
- **Pool url/port:** introduce your pool settings or leave default
- **BTC address:** BTC address where you will receive prize.

4 - Press **Save** and **Restart**. After this Bitaxe will start working.

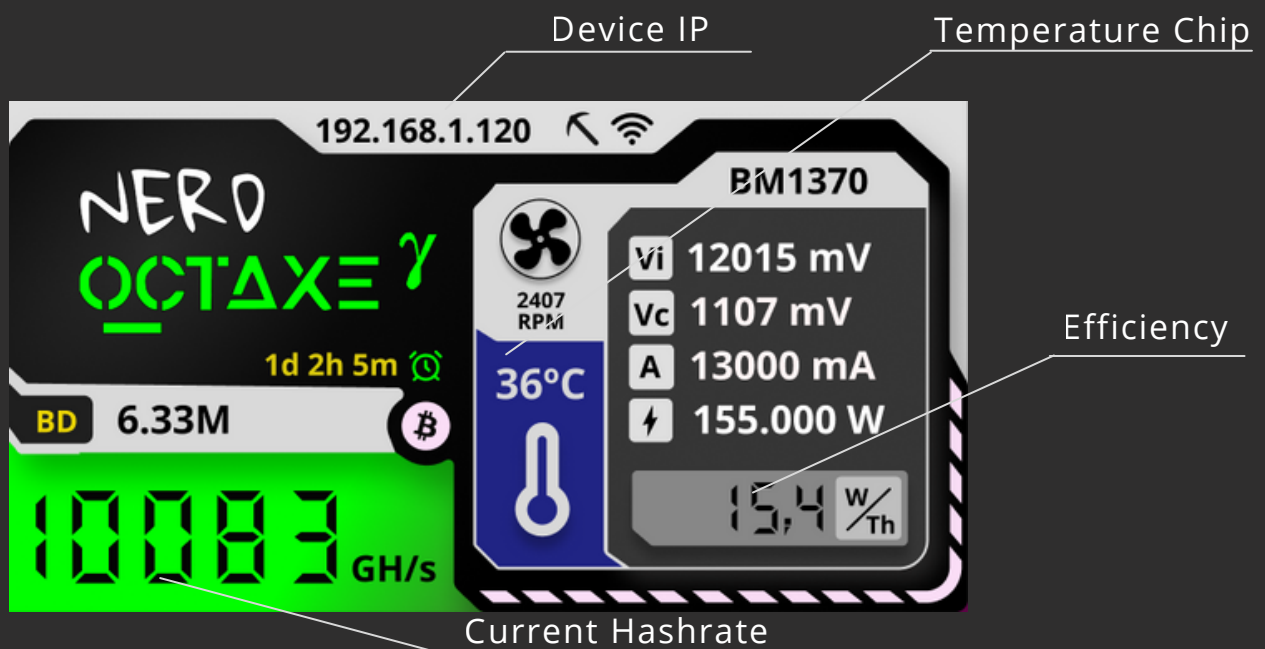
For any problem check full guide or contact Bitronics team.



NERDOCTAXE SCREENS

MAIN SCREEN

The following screen provides all NerdAxe stats, including mining values, chip temperature, and efficiency, among other details.



BD

Vi

Vc

A



Best difficulty: Best share gotten by miner

Input voltage: voltage of power supply

Core voltage: voltage readed at ASIC chip

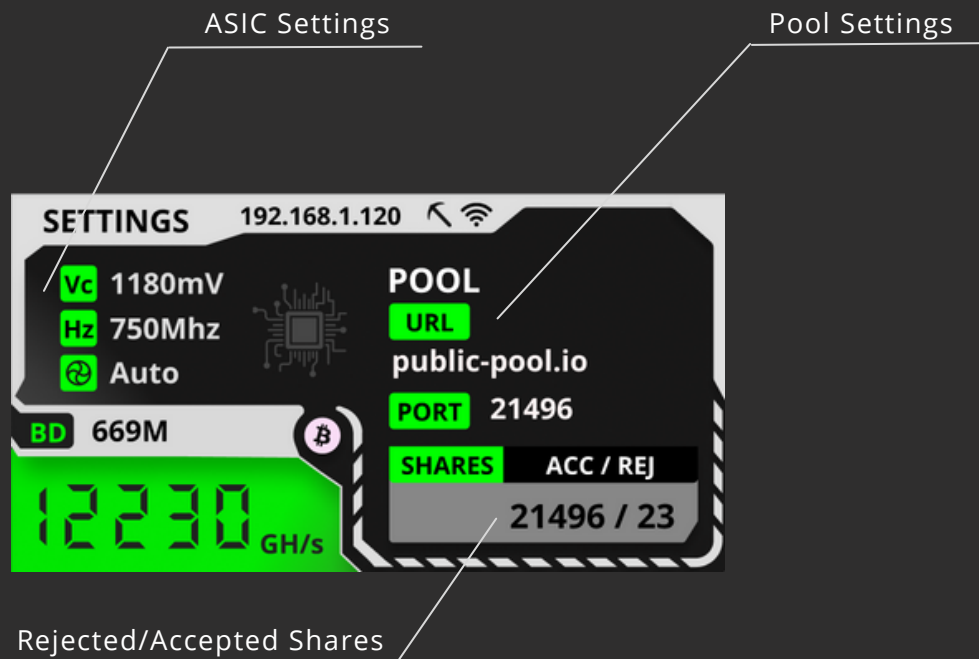
Current: Current consumption

Power: total power consumption

Fan: revolutions per minute readed

STATS SCREEN

The following screen shows your configured settings, including the pool, IP address, and port for configuring axeOS.



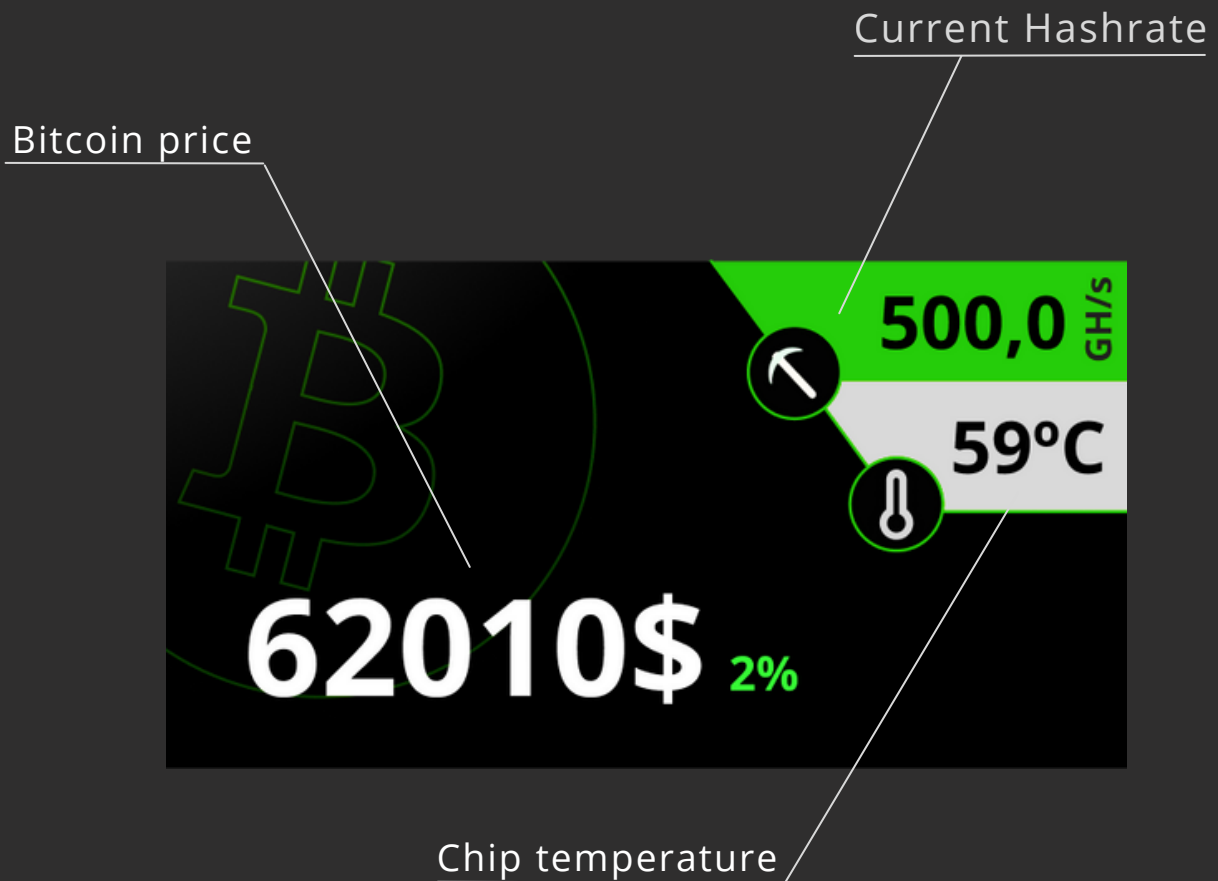
Vc
Hz

URL
PORT
SHARES

Core voltage set: Configured ASIC core voltage
Freq set: ASIC frequency configured
Fan: configured fan behaviour
URL: Pool configured URL
Port: Pool configured Port
Shares: Accepted/rejected found shares

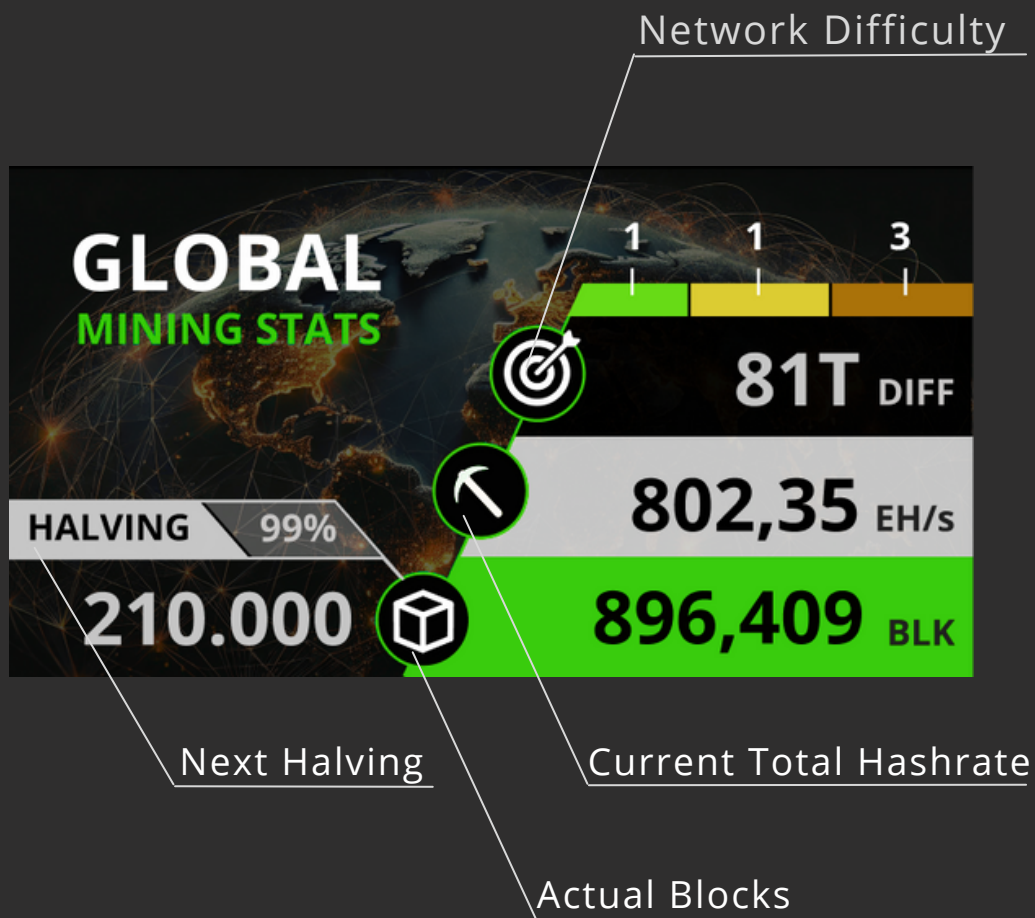
PRICE SCREEN

The following screen shows the actual bitcoin price, also the current hashrate and the chip temperature.



MINING STATS SCREEN

The following screen shows data related to mining stats, the next halving, actual blocks and the current Hashrate of the network.



ATTRIBUTES



Vcc: 12V
I_{max}: 20A
P: 150W
USB type: USB-C

Wifi: only 2.4GHz
MCU: ESP32-S3R8 Dual-core
LX7 microprocessor
ASIC: BM1370

FEATURES

HIGH PERFORMANCE

Powered by the S21 Pro BM1370 ASIC chip

PLUG PLAY

Easy to setup, fully assembled, configure and play

ASIC TUNNING

ASIC Tunning via config portal, find your work

CONFIG PORTAL

Web config portal to setup your mining data

FULL **SETUP** GUIDE

TOOLS NEEDED

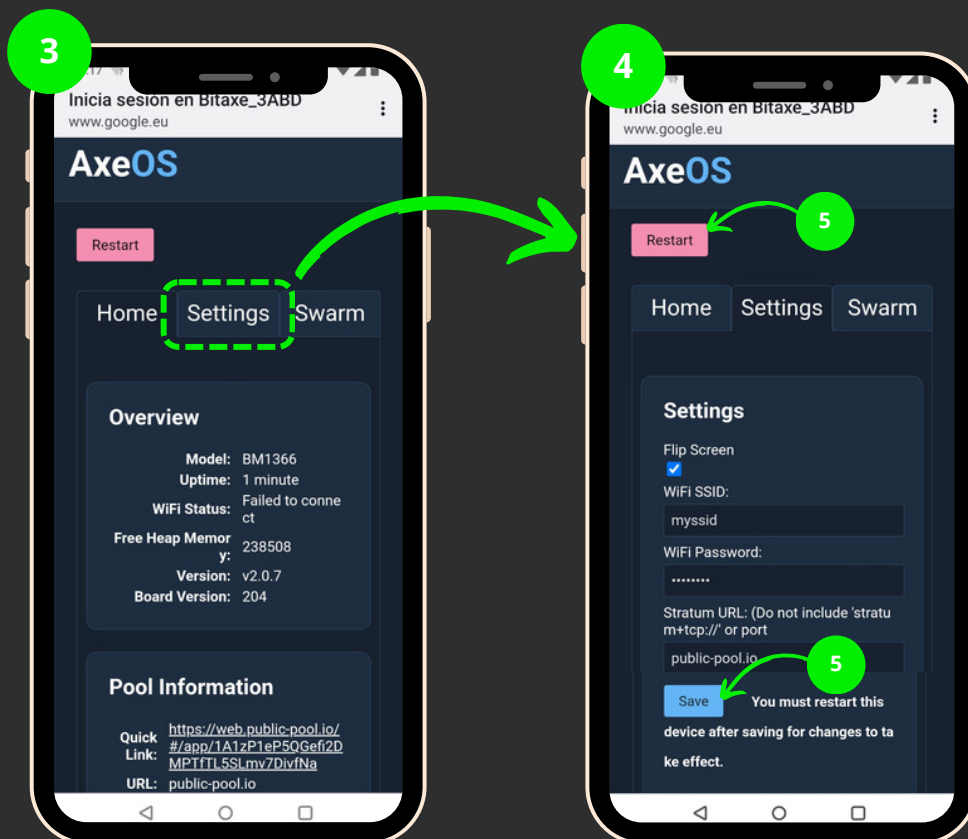


1 - Power up your Nerdqaxe with its power adapter (12V/20A). **Important:** Don't use any other power adapter.

2 - Wait until the text "**Connect to ssid: Nerdqaxe+_XXXX_XXXX**" appears on the screen, and then from a mobile phone search for the **Nerdqaxe+_XXXX** wifi network and connect to it.

3 - Once connected, the following menu will be shown (3). Click on **Settings** to setup.

4 - Set your mining settings and then (5) press **Save** and **Restart**. After this Nerdaxe will start working.



NERDOCTAXE SETTINGS

Setup miner parameters:

- **WiFi/Password:** network credentials were you want to connect to. Get your home Wifi name and password and add it there.
- **Stratum url/port:** introduce your pool settings or leave default ones. Check compatible pools at bitaxe.org. Standard ones:

URL	Port
public-pool.io	21496
pool.ckpool.com	3333

- **Stratum user:** set your BTC address followed by your worker name. `<btcAddress>.<workerName>`
- **Stratum password:** left default value or specify one for pools who require.
- **Frequency:** ASIC work freq.
- **Core voltage:** ASIC core voltage.

ASIC TUNNING METHODOLOGY



Playing with frequency and core voltage let you find the best working point with your ASIC. Increasing or reducing hashrate or power consumption. **Be carefull to not force it too much.** Default values are the recommended ones.