

BITRONICS
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500GHS

Learning by building

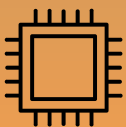
Bitaxe

500Ghs
12W

LOW POWER
CONSUMPTION

EASY TO
CONFIGURE

OPEN
SOURCE



TUTORIAL

THE BITAXE

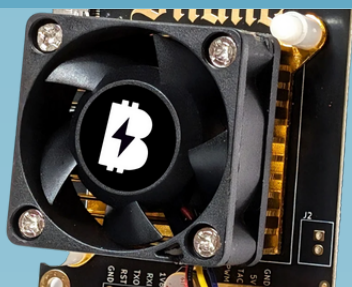
Bitaxe Ultra is a **fully open-source Bitcoin** ASIC miner equipped with the BM1366 ASIC chip from Antminer's S19XP.

This design ensures efficient and powerful mining capabilities, achieving 500 GH/s at an energy efficiency of 20 J/TH. It operates using a 5V DC power supply connected via a 2.1/5.5mm barrel jack connector.

At the core of Bitaxe Ultra is the combination of ESP-miner and AxeOS, an open-source firmware that empowers you with full control over your mining operations. The intuitive web interface simplifies setting adjustments and performance monitoring, making mining more accessible and streamlined.

BM1366 ASIC CHIP

500 Ghs Bitmain ASIC chip working at low temperature with fan



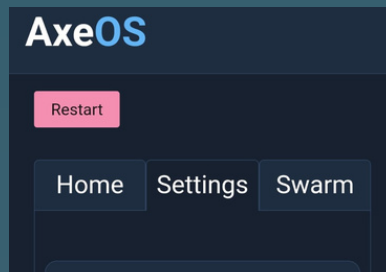
MINER STATS SCREEN

Standard mining data, hashrate, uptime, efficiency, shares...



AXEOS WEBCONFIG

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



FULL **SETUP** GUIDE

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

For any other question contact Bitronics team.



QUICK SETUP

Required time: 5 minutes



1 - Power up your Bitaxe with its power adapter (5V /4A). **Important:** Don't use any other power adapter.

2 - Wait until the text "**Connect to ssid: Bitaxe_XXXX**" appears on the screen, and then from a mobile phone search for the **Bitaxe_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:

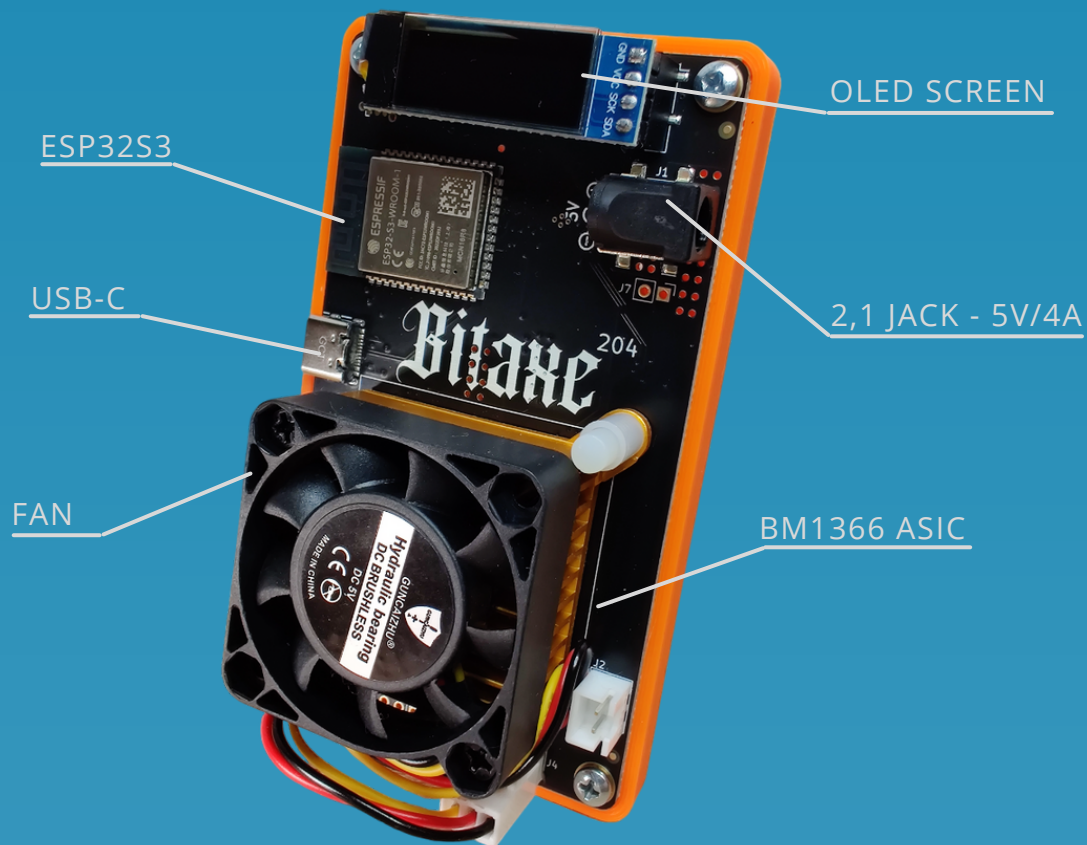
- **WiFi/Password:** network credentials were you want to connect to.
- **Pool url/port:** introduce your pool settings or leave default
- **BTC address:** BTC address where you will receive prize.

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

For any problem check full guide or contact Bitronics team.



ATTRIBUTES



Vcc: 5V
I_{max}: 3A
P: 12W~15W
USB type: USB-C

Wifi: only 2.4GHz
MCU: ESP32-S3R8 Dual-core
LX7 microprocessor
ASIC: BM1366AG

FEATURES

HIGH PERFORMANCE

Powered by the S19XP BM1366 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

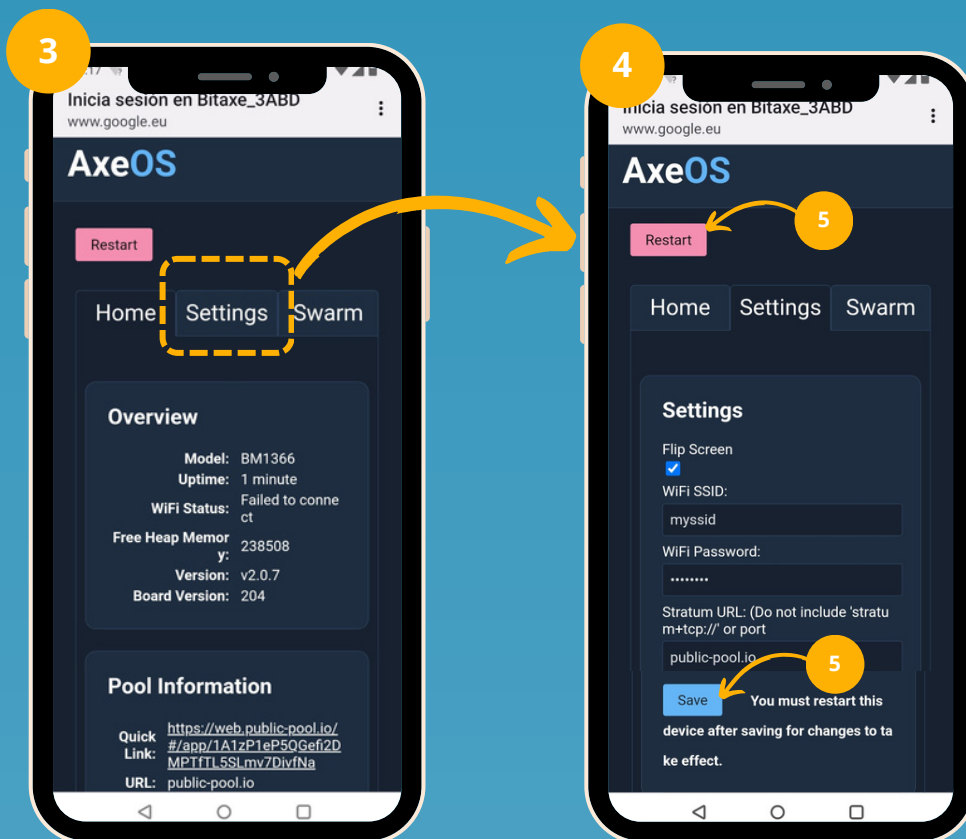


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3 - Once connected, the following menu will be shown (3). Click on **Settings** to setup.

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



BITAXE 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.vkbit.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.