

Bitaxe Hex



Bitaxe Hex is a **fully open-source Bitcoin** ASIC miner equipped with 6 BM1368 ASIC chip from Antminer's S21 .

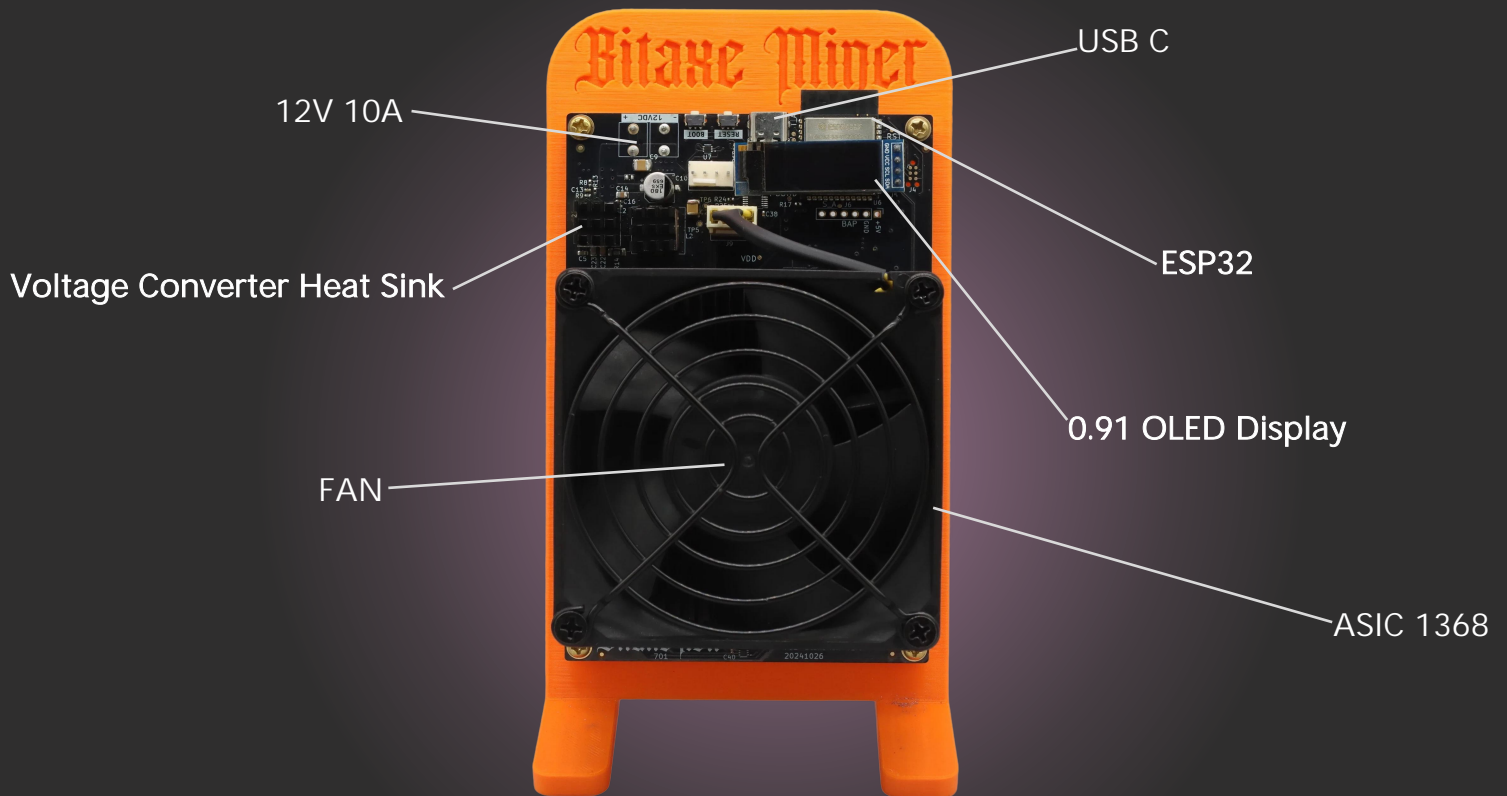
This design ensures efficient and powerful mining capabilities, achieving 4,2TH/s at an energy efficiency of ~20W/TH. It operates using a 12V DC power supply connected via a 2.1/5.5mm barrel jack connector.

At the core of Bitaxe Hex 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.



If you are a new user, please contact sales in advance if you need to upgrade the firmware

ATTRIBUTES



vcc : 12V
Imax : 8A
Power : 80~120W
USB Type : USB-C

Wifi: only 2.4GHz
MCU: ESP32
ASIC: BM1368

FEATURES

HIGH PERFORMANCE

Powered by the S21 BM1368 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

Bitaxe Hex SETTING



Network Configuration

Hostname:

Wi-Fi SSID:

Wi-Fi Password:

Save You must restart this device after saving for changes to take effect.

Restart

Pool Configuration

Stratum Host:

Do not include 'stratum+tcp://' or port.

Stratum Port:

Stratum User:

Stratum Password:

Fallback Stratum Host:

Do not include 'stratum+tcp://' or port.

Fallback Stratum Port:

Fallback Stratum User:

Fallback Stratum Password:

Save You must restart this device after saving for changes to take effect.

Restart

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 workinpoint with your ASIC. Increasing or reducing hashrate or power consumption. **Be carefull to not force it too much.** Default values are the recommended ones.

HEATSINK PREPARATION

To use the case, heatsinks must be installed over the voltage regulator area. Please ensure you add the heatsinks to the marked positions before closing the Bitaxe Hex.



WHY IS THIS SO IMPORTANT?

Maintaining good heat dissipation for the voltage regulator is crucial to ensure stable power supply to the ASICs, which is important for the safety and longevity of your miner. Proper cooling prevents overheating, which can lead to hardware failure and reduce the efficiency and lifespan of your mining equipment.

QUICK SETUP

Required time: 5 minutes

1 - Power up your Bitaxe with its power adapter (12V/10A). **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.

