MICROBT · WHATSMINER

WhatsMiner M50S++
148 TH/s

Air-cooled Bitcoin miner · SHA-256 · MicroBT range 138–158 TH/s



COIN · ALGORITHM
Bitcoin · SHA-256

COOLING
Air (fans)

POWER
220–240 V · C19

RELEASED
2022

Product Manual

Setup, operation, maintenance and OneMiners hosting guide

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

Contains manufacturer documentation © MicroBT, summarised for customer reference.

About this manual

This manual covers the **MicroBT WhatsMiner M50S++**. MicroBT rates the M50S++ at **138–158 TH/s** and **22 J/TH**; OneMiners sells the bins listed in 1.2.

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	ROOM	NETWORK
Label says M50S++	**220–240 V · C19**	**−5 to 35 °C**	**RJ45 + DHCP**
Check the version on the label.	About up to about 15.8 A at 220 V (calculated).	Ventilated, away from people (75 dB).	A PC with WhatsMinerTool.

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, MicroBT (Shenzhen MicroBT Electronics Technology Co., Ltd.), 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.

Contents

01	**Product Overview** Specifications, versions and open questions	4
02	**Safety and Installation Requirements** Electrical, climate, site and airflow	5
03	**Initial Setup** Inspection, power, IP address and dashboard login	6
04	**Mining Configuration** Pools, worker names and saving settings	7
05	**Monitoring Performance** Dashboard values and what normal looks like	8
06	**Firmware and Maintenance** Firmware, password, reset and cleaning	9
07	**Troubleshooting** Power, network, pools, hashrate and temperature	9
08	**OneMiners Platform Guide** Miner details, pool settings, earnings and hardware status	11
09	**OneMiners Hosting and Warranty** Hosting service, warranty terms, exclusions and support	13
10	**Wallet and Mining Rewards** Mining balance, payout address, withdrawals and exchange	14
11	**Additional OneMiners Features** AI Smart Mining, mobile app and profitability tools	16
12	**Official Resources and Support** Links, contacts, sources and revision history	18

CHAPTER 01

Product Overview

The WhatsMiner M50S++ is an air-cooled SHA-256 miner from MicroBT with a built-in power supply.



Figure 1-1 WhatsMiner M50S++ 148 TH/s. Image: OneMiners product photo.

1.1 Key figures

148 TH/s	3,404 W	22 J/TH
Typical hashrate	Power on wall	Efficiency

1.2 Specifications

ITEM	VALUE
PRODUCT	
Model / version	**WhatsMiner M50S++**
Algorithm / coins	**SHA-256 · BTC / BCH / BSV**
Hashrate	**138–158 TH/s (MicroBT) · 148 TH/s bin**
Power on wall	**3,036–3,476 W (MicroBT) · 3,404 W bin**
Efficiency	**22 J/TH**
POWER	
Input voltage	**220–240 V AC**
Current	**up to about 15.8 A at 220 V (calculated)**
Power cord	**IEC C19, ≥ 16 A (MicroBT)**

ITEM	VALUE
HARDWARE	
Network	**RJ45 Ethernet 10/100M**
Size (L×W×H)	**430 × 155 × 226 mm**
Weight	**11.5 kg / 12.6 kg (MicroBT)**
Noise	**75 dB (listing)**
ENVIRONMENT	
Operating temperature	**−5 to 35 °C**

SOURCE MicroBT, WhatsMiner M5X Series Product Manual (Oct 2024); OneMiners product pages.

OneMiners bins (listing values)

VERSION	HASHRATE	POWER ON WALL	EFFICIENCY
148 TH/s (OneMiners)	148 TH/s	3,404 W	23.0 J/TH

1.3 Hardware

Power supply	Built into the chassis.
Controller	ETH port · **IP Report** button · **Reset** button · status lights.
Cooling	Fans with front-to-back airflow.

SOURCE Manufacturer specification; standard layout.

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
Size and weight	MicroBT 430 × 155 × 226 mm, 11.5 kg · OneMiners 425 × 225 × 125 mm, 17 kg	MicroBT values
Power cord	MicroBT IEC C19, ≥ 16 A · OneMiners 130 TH/s listing says C13	Use C19 / 16 A or better

02 CHAPTER Safety and Installation Requirements

The M50S++ draws about 3.4 kW and produces loud, hot exhaust air. Plan the circuit and the room before switching it on.

2.1 Safety warnings

DANGER · ELECTRICAL

- Connect to an **earthed** outlet near the equipment and easy to reach.
- Use only 220–240 V AC. Wrong input voltage may damage the miner.
- The M50S++ draws up to about 15.8 A at 220 V (calculated). Use a power cord, PDU and circuit rated for at least that current.

CAUTION · EQUIPMENT

- Don't open the case or remove screws; unauthorised disassembly can void the warranty.
- Keep the miner away from water and condensing humidity.

2.2 Electrical requirements

Input	**220–240 V AC**
Typical load	**3,404 W**
Current	**up to about 15.8 A at 220 V (calculated)**
Power cord	**Rated for the current above**

Use earthed circuits sized by a licensed electrician to local code. Don't use household extension leads or multi-plugs.

2.3 Climate and site

CONDITION	REQUIREMENT
Operating temperature	−5 to 35 °C
Noise	75 dB (listing)

- Keep intake and exhaust clear and don't let hot exhaust air flow back into the intake.
- At 75 dB, the M50S++ isn't suitable for living or office spaces.
- Avoid dust, salt air and corrosive gases; clean more often in dusty sites.

SOURCE MicroBT, WhatsMiner M5X Series Product Manual (Oct 2024); OneMiners product pages.

03 CHAPTER Initial Setup

These steps take a new M50S++ from the box to its management interface. If your miner is hosted by OneMiners, our team does this for you; skip to Chapter 8.

3.1 Unboxing and connecting

- Check the carton for damage and confirm the label shows **M50S++**. Check the fans spin freely and keep the packing.

1. **Network**
   Connect an Ethernet cable. The miner gets its IP address by DHCP by default.
2. **Power**
   Connect the C19 power cord and switch on the supply. The fans spin up during start-up.

3.2 Finding the miner's IP address (WhatsMinerTool)

1. Put your PC on the same network segment and open **WhatsMinerTool**.
2. In the **IP Monitor** tab, set the location fields (room, rack, layer, position) and click **Start**.

3. About 30 seconds after power-on, press the **IPFOUND** button on the miner for more than 5 seconds. The IP address appears in the tool.

> **NOT FOUND?**
> Hold the **reset** button for more than 5 seconds to restore factory defaults, power off and on, wait 30 seconds, then press IPFOUND again.

3.3 Logging in and network settings

1. Enter the IP address in a web browser on the same network.
2. Log in with the default account for your firmware. **Needs verification**: MicroBT's guides don't state the defaults; many WhatsMiner releases use `admin` / `admin`. Change the password after the first login.
3. Static IP (optional): **Configuration** › **Interfaces** › **Edit**, choose **Static address**, enter IP, mask, gateway and DNS, save and log in again at the new address.

SOURCE MicroBT, WhatsMiner Hydro Cooling Operation Guide V1.5: network setup (the WhatsMinerTool and web-interface steps are shared across WhatsMiner servers). Confirm menu names on your firmware.

04 CHAPTER Mining Configuration

The M50S++ mines SHA-256 coins: Bitcoin.

4.1 Setting up pools

1. Open **Configuration** › **BTMiner Configuration**.
2. Enter the pool address and worker name for up to three pools, then click **Save & Apply**.
3. Restart BTMiner (**Status** › **BTMinerStatus**, **Restart BTMiner**) or reboot the control board.

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 `myaccount.m50spp01`.
Password	Optional. Most pools accept any value, such as `x`.

> **COIN AND POOL**
> Pool 1 is used first; Pools 2 and 3 are backups. The miner mines SHA-256 coins; this manual assumes Bitcoin (BTC). WhatsMinerTool can also apply pool settings to many miners at once.

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.

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Hosted miners are configured from the OneMiners platform rather than the miner's own dashboard. To change pools, use **Pool Settings** in your account (see 8.2).

SOURCE MicroBT, WhatsMiner operation guide: Pool and Worker Configuration.

05 CHAPTER Monitoring Performance

Judge performance by the average hashrate after the miner has run for some time.

5.1 What "normal" looks like

144–152 TH/s	3,234–3,574 W	< 1 %
Average hashrate (±3%)	Wall power (±5%)	Pool rejection rate

Calculated from the rated values with the manufacturer's usual tolerances (hashrate ±3%, power ±5%).

5.2 What to watch

VALUE	MEANING
Average hashrate	The most reliable measure of performance. The real-time figure moves with every share.
Board temperatures	Board temperatures should stay stable. Rising values point to dust, fans or room temperature.
Fan speed	Every fan should report a speed. A stopped fan raises temperatures and stops mining.
Pool status	Active pool, accepted and rejected shares. Rejection below 1% is normal.

06 CHAPTER Firmware and Maintenance

Keep the firmware current and the airflow clean. Most problems on air-cooled miners trace back to dust, fans or room temperature.

6.1 Firmware

> **USE THE RIGHT FILE**
> Only install firmware MicroBT publishes for the **WhatsMiner M50S++**, from the MicroBT support site or the OneMiners Manuals & Firmware Library. Keep the miner powered during the upgrade. WhatsMinerTool can upgrade many miners in one batch. Third-party firmware voids MicroBT's warranty.

6.2 Password and reset

- Change the web password after first login and store it securely.
- Factory reset: hold the reset button for more than 5 seconds with the miner running.

6.3 Preventive maintenance

WHEN	TASK
Daily / remotely	Check average hashrate, board temperatures, fan speeds and pool status.
Monthly	Check room temperature and humidity against 2.3. Look for dust on fan guards.
Every 1–3 months	Switch off and unplug, then clean fans and heat sinks with dry compressed air.
Regularly	Check power cords and plugs for heat marks. Check for new firmware.

Intervals are OneMiners recommendations. Clean more often in dusty sites.

07 CHAPTER Troubleshooting

Start with the symptom table. Hosted customers: don't attempt repairs yourself; contact OneMiners service.

SYMPTOM	CHECK
Miner doesn't power on	Check the supply is 220–240 V AC and the power cord is fully seated and rated for the current.
No network / IP not found	Check the cable and DHCP. Press IPFOUND for more than 5 s while WhatsMinerTool's IP Monitor is running.

SYMPTOM	CHECK
Pool won't connect	Re-check the pool address and port, the worker name, gateway and DNS. Make sure the pool port isn't blocked by a firewall.
Low or unstable hashrate	Compare the average hashrate with 5.1. Check board temperatures, fans and dust. Update the firmware.
Overheating	Check the room is within −5 to 35 °C, fans are running and intake and exhaust are clear. Clean, then restart.
Smell, unusual sound or smoke	Switch off immediately and contact service.

SOURCE Based on MicroBT documentation cited in Chapters 2–6.

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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 M50S++.

8.1 Miner details

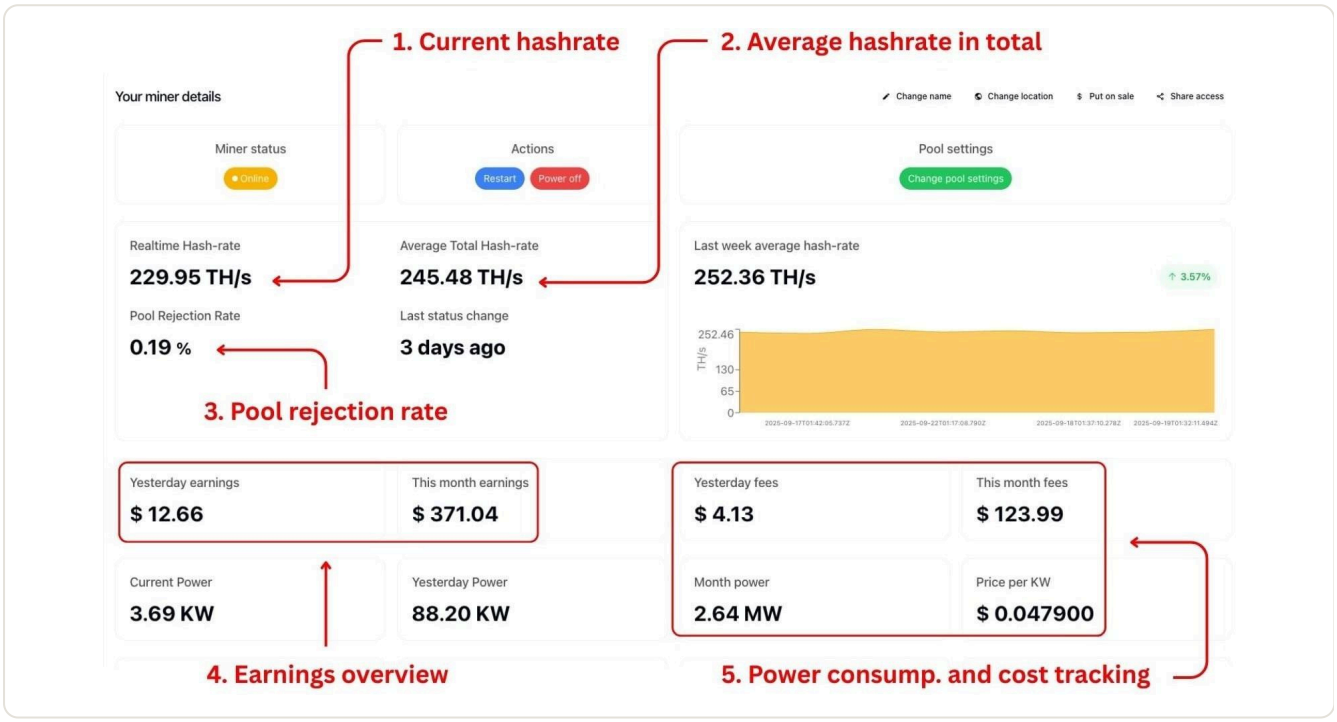


Figure 8-1 Miner details on OneMiners platform v1.2 (example values).

1 · Current hashrate	Real-time hashrate (for the M50S++, 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 M50S++, expect about 144–152 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

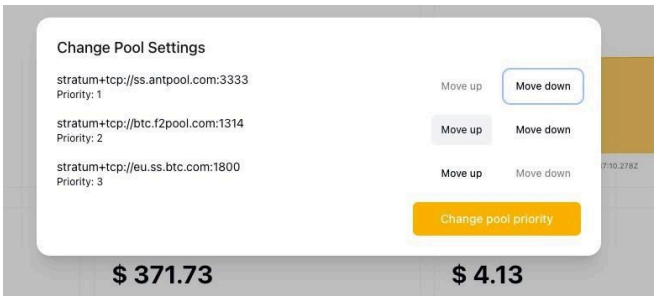


Figure 8-2 Change Pool Settings.

- 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

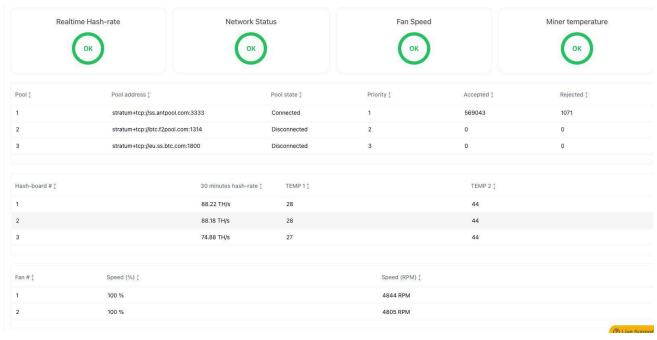


Figure 8-4 Hardware status (example from an air-cooled miner).

- **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 (2 fans on the M50S++). 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.
- Air-cooled miners like the M50S++ are accepted at most sites. Ask sales which locations currently host the M50S++.

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 M50S++, this includes damage from running outside −5 to 35 °C or 220–240 V AC, 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.

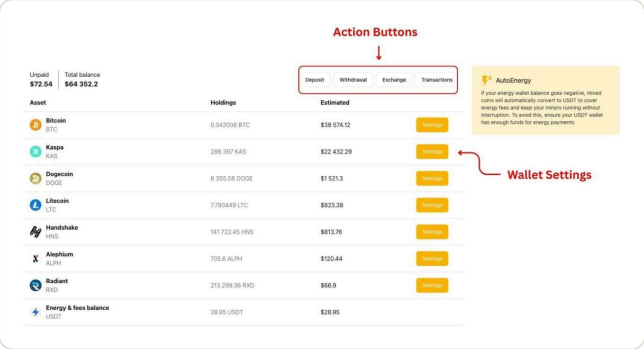


Figure 10-1 Wallet section.

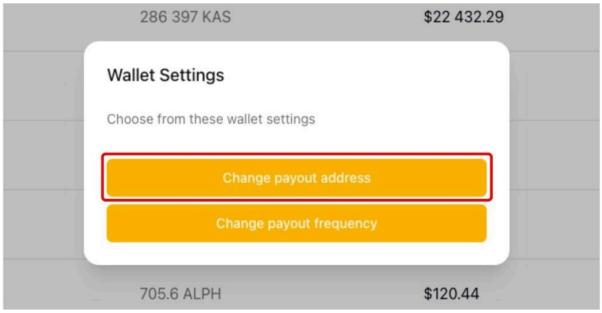


Figure 10-2 Changing the payout address.

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.

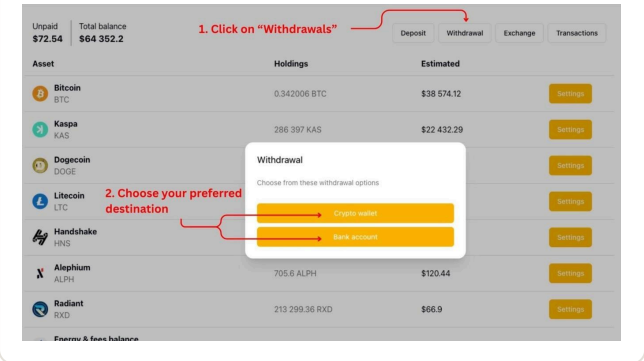


Figure 10-3 Choosing a withdrawal destination.

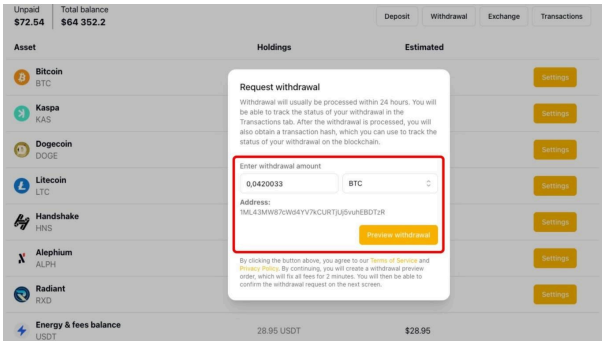
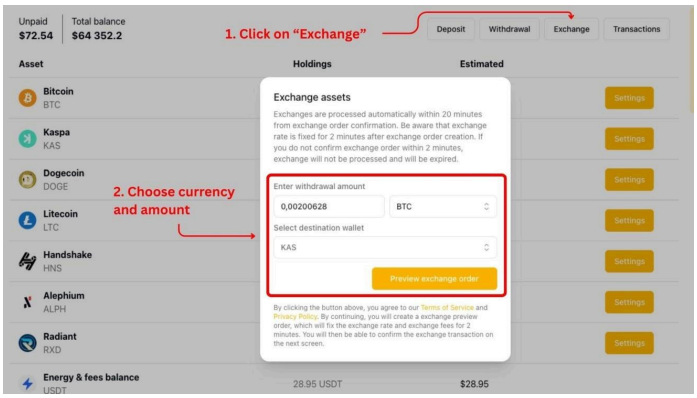


Figure 10-4 Choosing currency and amount.

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

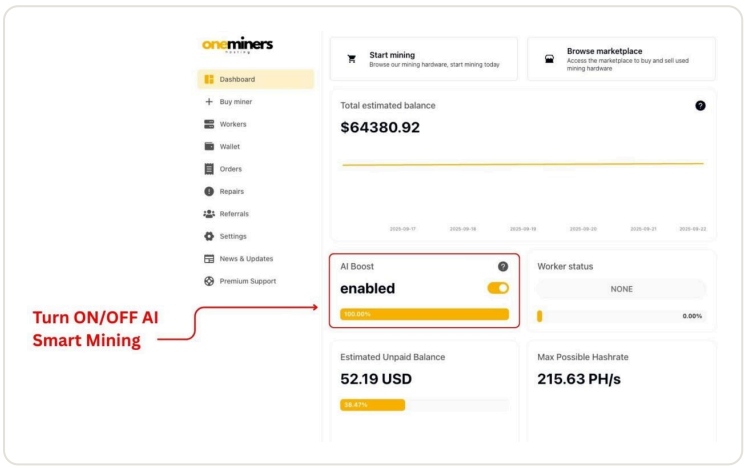


Figure 11-1 AI Boost toggle on the dashboard (platform v1.2).

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.

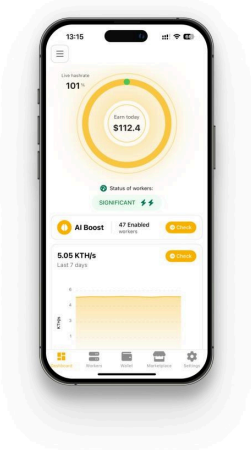
Results depend on hardware and market conditions and aren't guaranteed. More information: oneminers.com/pages/ai-smart-mining.

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 M50S++ 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 M50S++, use 148 TH/s and 3,404 W with your own price per kWh. Estimates aren't financial advice.

12 CHAPTER Official Resources and Support

12.1 Resources

MICROBT
WhatsMiner support
support.whatsminer.com

MICROBT
Product manuals
www.whatsminer.com/src/views/product_manual.html

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

ONEMINERS
Product page
oneminers.com/products/whatsminer-m50s-148th-s

ONEMINERS
Warranty policy
oneminers.com/pages/warranty-policy

ONEMINERS
Hosting locations
oneminers.com/pages/hosting-centers

12.2 Contact OneMiners

SUPPORT, 24/7

+1 305 867 6143

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. MicroBT, WhatsMiner M5X Series Product Manual (Oct 2024, MicroBT download server): hashrate ranges, efficiency, power, input, cable, size, weight, environment, cooling.
2. OneMiners product page (M50S++ 148 TH/s).
3. MicroBT, WhatsMiner Hydro Cooling Operation Guide V1.5: WhatsMinerTool, network and pool configuration, coolant rules.
4. 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.