MICROBT · WHATSMINER

WhatsMiner M7DS
678 TH/s

Hydro-cooled Bitcoin server · SHA-256 · 7X D-series · 19-inch 2U



COIN · ALGORITHM
Bitcoin · SHA-256

COOLING
Hydro · about 1.3 L coolant

POWER
3-phase AC

FORMAT
19-inch 2U · 29.5 kg

Product Manual

Setup, operation, maintenance and OneMiners hosting guide

Version 1.0
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Contains manufacturer documentation © MicroBT (Shenzhen MicroBT Electronics Technology Co., Ltd.), summarised for customer reference.

About this manual

This manual covers the **MicroBT WhatsMiner M7DS**, sold by OneMiners as the **678 TH/s** bin. The M7DS belongs to MicroBT's 7X **D series** of hydro miners, which run at a fixed power (no overclocking).

MicroBT's M7DS-specific manual wasn't available for this edition. Thermal limits come from MicroBT's 7X hydro introduction; coolant, installation and network steps come from MicroBT's general WhatsMiner Hydro Cooling Operation Guide V1.5.

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	COOLING	NETWORK
Label says M7DS	**3-phase AC**	**Inlet 25–50 °C**	**RJ45 + DHCP**
D series: fixed 9.2 kW.	Voltage range: see 1.4.	Outlet ≤ 65 °C, stainless loop.	A PC with WhatsMinerTool.

How notices are used

DANGER
Risk of electric shock, fire, burst pipes 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

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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 WhatsMiner M7DS is a 19-inch, 2U hydro-cooled Bitcoin server from MicroBT's 7X generation, released in 2026. D-series units run at a fixed 9.2 kW with a narrower coolant window than A and B series.



Figure 1-1 WhatsMiner M7DS 678 TH/s. Image: OneMiners product photo.

1.1 Key figures

638–702 TH/s	**9.2** kW	**13.5** J/TH
MicroBT rated range	Fixed power, no overclock	Efficiency (±5%)

1.2 Specifications

ITEM	VALUE
PRODUCT	
Model	**WhatsMiner M7DS (7X D series)**
Algorithm / coin	**SHA-256 · BTC**
Hashrate	**678 TH/s (OneMiners bin); MicroBT 638–702 TH/s**
Power	**9,153 W (OneMiners) · 9.2 kW (MicroBT)**
Efficiency	**13.5 J/TH ±5%**
POWER	
Supply	**3-phase AC · Needs verification (see 1.4)**
Current	**About 14 A per phase at 380 V (calculated)**
Power connector	**Industrial 3-phase (OneMiners listing)**

ITEM	VALUE
HARDWARE	
Network	**Ethernet**
Size (H×W×D)	**86 × 483 × 663 mm (19-inch 2U)**
Weight	**29.5 kg**
Noise	**75 dB (listings)**
COOLING AND ENVIRONMENT	
Inlet coolant	**25–50 °C, control ±2 °C**
Outlet coolant	**≤ 65 °C**
Coolant volume	**About 1.3 L per unit**
Ambient	**5–45 °C**
Humidity	**5–95% RH (listing); MicroBT hydro guide 5–85%**

D-series limits from MicroBT's 7X hydro introduction. Storage and transport: −40 to +70 °C.

SOURCE MicroBT support article "Simple Introduction to New 7X Series Hydro-Cooling Miners", as summarised by LeedMiner; ASIC Miner Value; OneMiners product page (checked 7 Nov 2026).

1.3 D-series cooling limits

Inlet temperature	25–50 °C, normal mode only (D series has no high-performance mode). Control accuracy ±2 °C.
Outlet temperature	Maximum 65 °C, lower than A series (70 °C) and B series (90 °C). Don't use the M7DS for high-temperature heat recovery.
Coolant demand	About 1.3 L per unit for 7D and 7DS servers.
Power mode	Fixed 9.2 kW; overclocking isn't supported.

SOURCE MicroBT support article 678, 7X series hydro introduction.

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
Input voltage	ASIC Miner Value and OneMiners description 380–480 V · OneMiners spec table 380–415 V	380–415 V is safe for both
Rated hashrate	OneMiners 678 TH/s · Mining Now and others 680 TH/s · MicroBT range 638–702 TH/s	678 TH/s bin within MicroBT's range
Coolant flow	No M7DS figure found. MicroBT's general guide: ≥ 10 L/min per miner with pure water.	**Needs verification**
Noise	75 dB in listings, high for a hydro unit with no fans listed	**Needs verification**
Default web login	Not stated in MicroBT's hydro guide	**Needs verification**

CHAPTER 02

Safety and Installation Requirements

The M7DS needs three-phase power and an engineered liquid-cooling loop. Planning and installation must be done by qualified electrical and cooling personnel.

2.1 Safety warnings

DANGER · ELECTRICAL

- The M7DS runs on **three-phase 3-phase 380–415 V**. Connection must be made by a licensed electrician, with earthing, surge protection and a disconnect that breaks all phases.
- Use only the original power cable and quick connectors. Other parts aren't covered by MicroBT's warranty.
- Keep the miner free of condensation. If condensation forms, dry it fully before powering on.

CAUTION · COOLING LOOP

- Keep the loop below **400 kPa**; higher pressure can deform the cold plate. Fit a **4 bar safety relief valve** and a constant-pressure expansion tank.
- **No copper** in the loop: it causes galvanic corrosion with the aluminium cold plate. Use stainless steel piping and pumps.
- A loose connector can cause over-temperature protection or cold-plate damage.

SOURCE MicroBT, WhatsMiner Hydro Cooling Operation Guide V1.5.

2.2 Electrical requirements

Supply	**3-phase AC (380–415 V is within all published ranges)**
Typical load	**9.2 kW (fixed)**
Current	**About 14 A per phase at 380 V (calculated)**
Protection	**Earthing, surge protection, disconnect breaking all phases**

Size breakers, cables and distribution to local electrical code. This must be done by a licensed electrician.

2.3 Coolant and loop requirements

The D-series values come from MicroBT's 7X introduction. Where they differ, they override the general guide values, which were written for earlier WhatsMiner hydro servers.

Inlet temperature	**25–50 °C (D series), control ±2 °C**
Outlet temperature	**≤ 65 °C**

Flow with antifreeze (rated)

GLYCOL	MIN. FLOW	INLET, NORMAL MODE
Pure water	≥ 10 L/min	20–50 °C
20%	≥ 10.7 L/min	20–50 °C

Flow	**Needs verification for the M7DS (general guide: ≥ 10 L/min per miner, pure water)**
Pressure	**≤ 400 kPa; 4 bar relief valve**
Coolant volume	**About 1.3 L per unit**
Piping	**Stainless steel; no copper**

GLYCOL	MIN. FLOW	INLET, NORMAL MODE
30%	≥ 11 L/min	20–49 °C
40%	≥ 11.4 L/min	20–48 °C
50%	≥ 11.6 L/min	20–47 °C

Coolant composition and quality

- Pure or distilled water, plus MicroBT's specified corrosion inhibitor, plus antifreeze in the ratio your lowest site temperature needs.
- New coolant: pH 7.0–8.7; chloride < 20 mg/L; sulfate < 10 mg/L; total hardness < 1 mg/L; copper, iron and aluminium ions each < 0.5 mg/L.
- Filtration: main filter of 100 mesh or finer, plus a recommended 10 µm side filter.
- Before first fill, flush with deionized water (≤ 5 µS/cm) several times, keep cleaning under 8 hours, and drain completely.

SOURCE MicroBT, WhatsMiner Hydro Cooling Operation Guide V1.5, Tables 3 and 4 and sections on system design and cleaning. D-series limits: MicroBT support article 678.

2.4 Rack installation

1. **Mount**
   Two people slide the M7DS into the rack and tighten the front-panel screws.
2. **Water**
   Remove the protective caps and connect the **blue inlet** and **red outlet** quick connectors. Push the female head forward without holding the movable ring, then pull gently on the hose to confirm it's locked.
3. **Cables**
   Connect the network cable and the original power cable.
4. **Circulate**
   Turn on water circulation first and check for leaks before powering on.

Power-on rules for a shared loop

- Confirm circulation is normal and all air has been purged. Air in the pump can damage it.
- Open the cooling components (pumps, valves, dry-cooler fans) fully before powering on. Switch the loop to automatic temperature control only once the miners approach rated power.
- Add miners to a loop **one at a time**, each only after the previous one has filled completely.
- Check that no condensation has formed on the server.

SOURCE MicroBT, WhatsMiner Hydro Cooling Operation Guide V1.5: Installation and Power-on.

03 CHAPTER Initial Setup

These steps take a racked M7DS to its web interface. If your miner is hosted by OneMiners, our team does this for you; skip to Chapter 8.

3.1 Unboxing and inspection

- Check the carton for damage and confirm the label shows **M7DS**.
- Inspect the quick connectors, power socket and front panel. Make sure the connector caps are in place.
- Keep the packing for transport and warranty returns.

3.2 Finding the miner's IP address (WhatsMinerTool)

1. The miner gets its IP address by **DHCP** by default. Put your PC on the same network segment.
2. In **WhatsMinerTool**, open the **IP Monitor** tab, enter room, rack, layer and position numbers, then 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

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 hydro guide doesn't state the defaults. Many WhatsMiner releases use `admin` / `admin`.
3. Change the password after the first login.

3.4 Network and time settings (optional)

1. Static IP: **Configuration** › **Interfaces** › **Edit**, choose **Static address**, click **Switch protocol**, enter IP, mask, gateway, broadcast and DNS, then save and log in again at the new address.
2. Time: the miner ships with four public NTP servers. MicroBT recommends a local NTP server; edit it under **System** › **System Configuration**.

SOURCE MicroBT, WhatsMiner Hydro Cooling Operation Guide V1.5: Network Setup.

04 CHAPTER Mining Configuration

The M7DS mines SHA-256 coins, mainly Bitcoin (BTC). Configure pools in the web interface or in bulk with WhatsMinerTool.

4.1 Setting up pools

1. Log in and 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 (`System` › `Reboot`).

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.m7ds01`.
Password	Optional. Most pools accept any value, such as `x`.

COIN AND POOL
The miner mines SHA-256; 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 Hydro Cooling Operation Guide V1.5: Pool and Worker Configuration.

05 CHAPTER Monitoring Performance

For a hydro miner, coolant temperatures and flow matter as much as the hashrate. Watch both.

5.1 What to watch

VALUE	MEANING
Average hashrate	The most reliable measure of performance. Compare it with 5.2.
Inlet / outlet temperature	Inlet must stay within 25–50 °C (±2 °C control) and outlet at or below 65 °C.
Hashboard status	Each board should report and hash. A missing board points to a hardware or connection fault.
Pool status	Active pool, accepted and rejected shares. Rejection below 1% is normal.

5.2 What "normal" looks like

638–702 TH/s	**≈ 9.2** kW	**≤ 65** °C
MicroBT rated range	Fixed power	Outlet coolant

Ranges from MicroBT's D-series figures. A 678 TH/s bin should average close to 678 TH/s.

TEMPERATURE PROTECTION
If inlet temperature, flow or outlet temperature leave their limits, the miner protects itself and hashrate drops or stops. Fix the cooling problem before restarting.

06 CHAPTER Firmware and Maintenance

Keep the firmware current and the coolant within its limits. Out-of-spec coolant and copper parts aren't covered by MicroBT's warranty.

6.1 Firmware

USE THE RIGHT FILE
Only install firmware MicroBT publishes for the **WhatsMiner M7DS**, 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.

6.2 Coolant testing schedule

WHEN	TEST	LIMIT
Every 2 months	pH	7.5–9.5
Every 2 months	Conductivity increase	≤ 1,500 µS/cm
Every 2 months	Inhibitor reserve alkalinity	≥ 2.3 ml
Every 6 months	Bacteria	≤ 1,000 cfu/ml
Every 6 months	Sulfate · chloride · sulfide	≤ 10 · ≤ 20 · ≤ 1 mg/L
Every 6 months	Copper, iron, aluminium increase	≤ 0.1 mg/L
Yearly	Replace coolant	Recommended after one year of use

6.3 Shutdown, removal and draining

1. Shut down the miner and turn off its circuit breaker.
2. Remove the network and power cables; press the connector tab when unplugging power.
3. Disconnect the water connectors by holding the movable ring and pulling back.
4. Loosen the front-panel screws and remove the miner with two people.
5. Drain promptly if the miner will be stored or transported (MicroBT gives 2 hours as the limit): connect lines to the inlet and outlet and push out the coolant with low air pressure.

SOURCE MicroBT, WhatsMiner Hydro Cooling Operation Guide V1.5: Maintenance and Shutdown.

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 3-phase 380–415 V and the breaker is on. Check the original power cable is fully seated.
IP not found	Check the cable and DHCP. Press IPFOUND for more than 5 s while IP Monitor is running. If needed, reset (hold reset > 5 s), power-cycle and try again.
Pool won't connect	Re-check the pool address, port and worker name, DNS and gateway, and that the NTP time is correct.
Low hashrate or protection	Check inlet temperature (25–50 °C), flow and pressure. Look for air in the loop, a closed valve, a loose connector or a blocked filter.

SYMPTOM	CHECK
Condensation	Power off, dry the miner completely, and raise the inlet temperature above the room's dew point before restarting.
Coolant leak	Power off first, then isolate the water. Don't power on a wet server.

SOURCE Based on MicroBT's WhatsMiner Hydro Cooling Operation Guide V1.5. MicroBT's full error-code list is in WhatsMinerTool and on support.whatsminer.com.

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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 M7DS.

8.1 Miner details

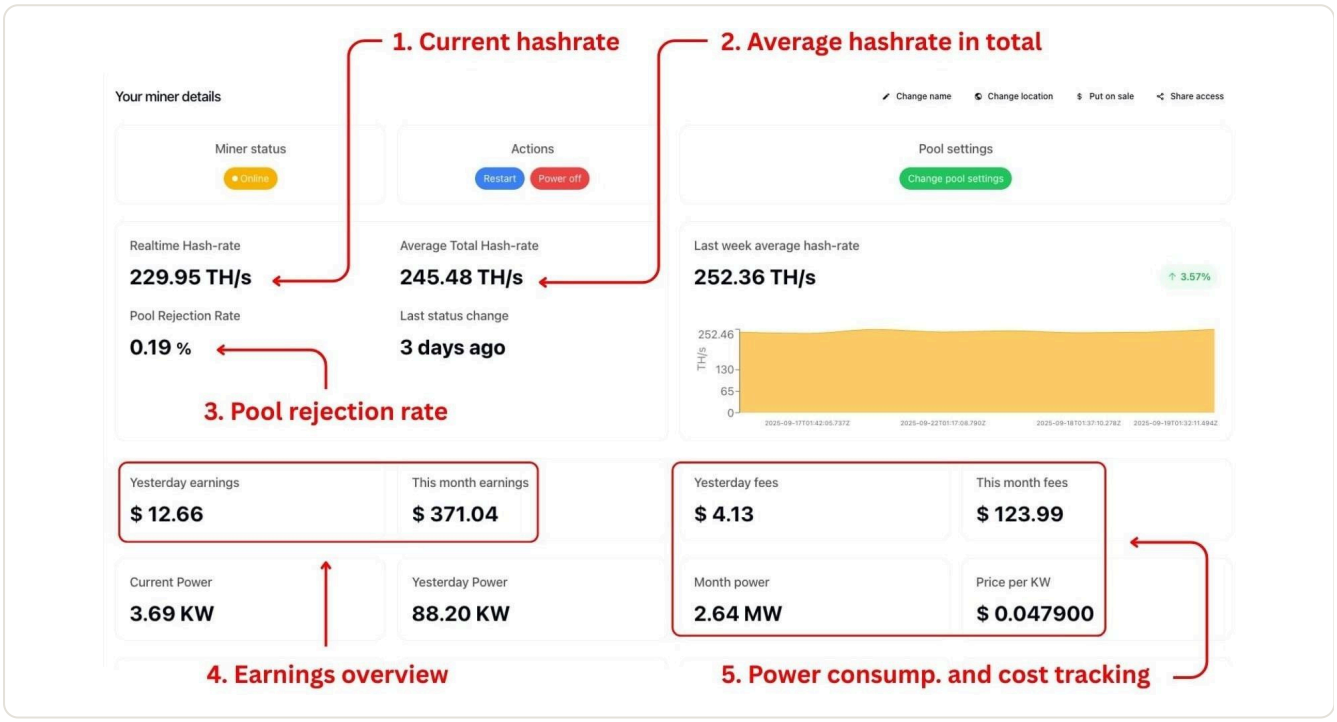


Figure 8-1 Miner details on OneMiners platform v1.2 (example values).

1 · Current hashrate	Real-time hashrate (for the M7DS, 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 M7DS 678 TH/s bin, expect an average close to 678 TH/s (MicroBT range 638–702 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

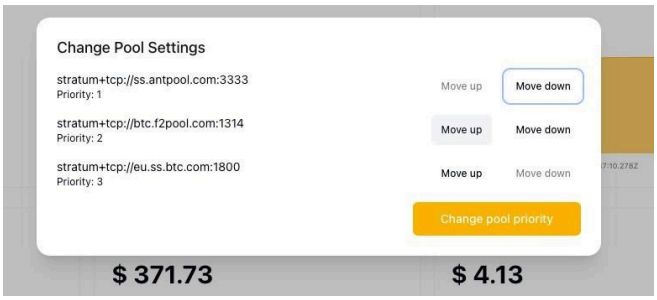


Figure 8-2 Change Pool Settings.

- 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

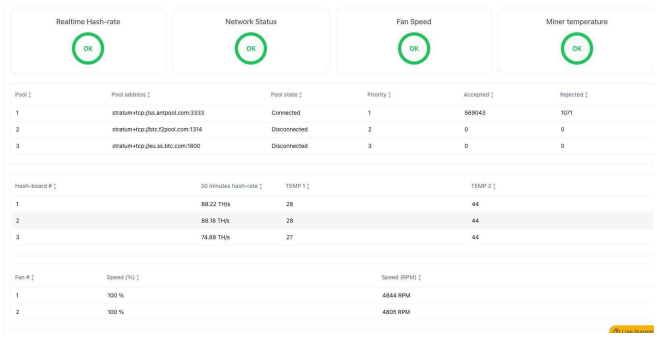


Figure 8-4 Hardware status (example from an air-cooled miner).

- **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.

> **HYDRO UNITS**
> The M7DS is liquid-cooled. Fan readings, if any are shown, don't describe its cooling. Watch board and coolant temperatures and the cooling alerts instead.

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.
- Hydro-cooled units need sites with a liquid-cooling loop. Ask sales which locations currently accept the M7DS.

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 M7DS, this includes damage from incorrect voltage, coolant outside MicroBT's limits, copper parts in the loop, missing filters or relief valve, condensation, unofficial firmware, 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.

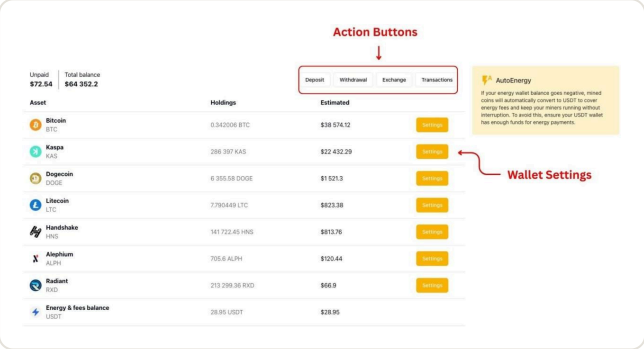


Figure 10-1 Wallet section.

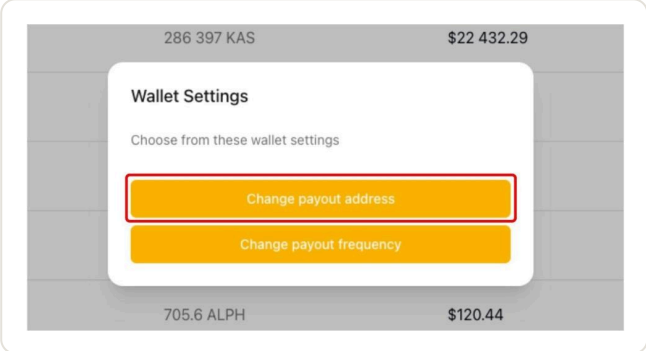


Figure 10-2 Changing the payout address.

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.

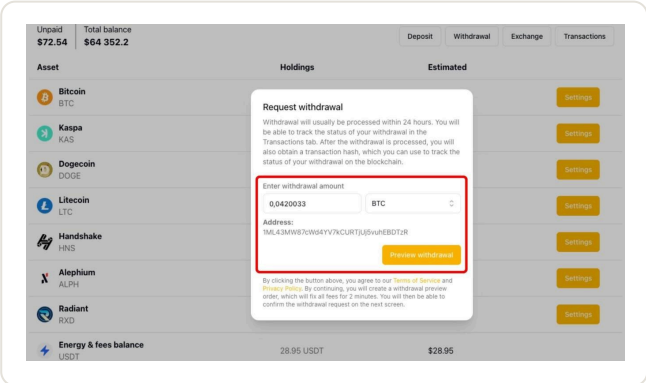
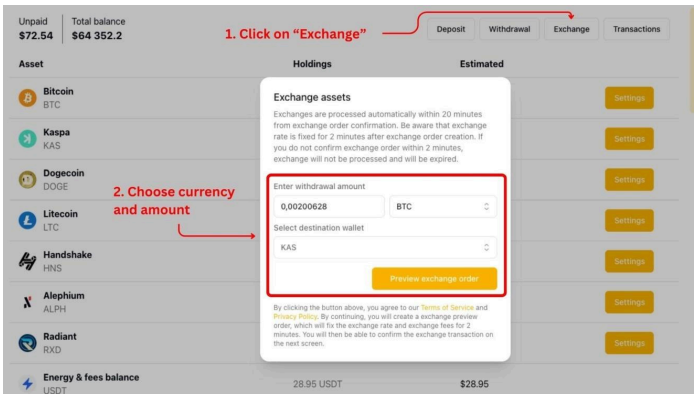


Figure 10-4 Choosing currency and amount.

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

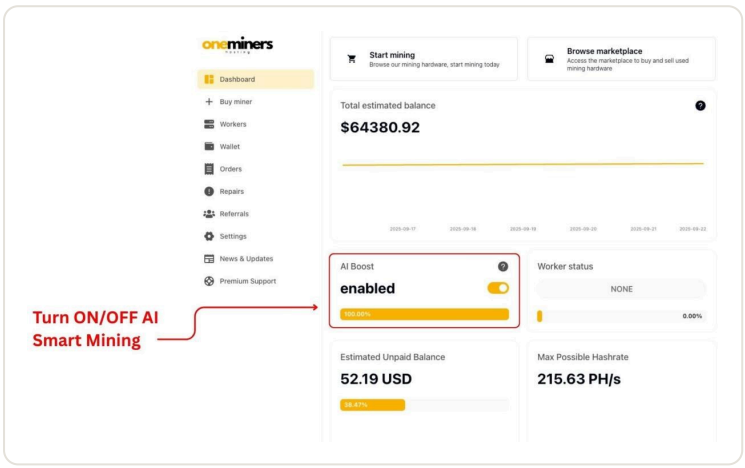


Figure 11-1 AI Boost toggle on the dashboard (platform v1.2).

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.

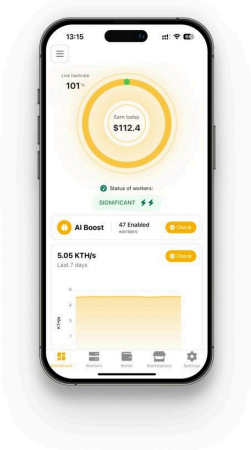
Results depend on hardware and market conditions and aren't guaranteed. More information: oneminers.com/pages/ai-smart-mining.

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 M7DS 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 M7DS, use 678 TH/s and 9,153 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-m7ds-678th-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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Manuals library

12.3 Sources used for this version

1. MicroBT support article 678, "Simple Introduction to New 7X Series Hydro-Cooling Miners", and LeedMiner's 7X deployment guide: D-series limits, M7DS rated range and power.
2. MicroBT, WhatsMiner Hydro Cooling Operation Guide V1.5: coolant composition and quality, inlet and flow limits, pressure, loop design, installation, WhatsMinerTool, pools, shutdown and draining.
3. ASIC Miner Value, WhatsMiner M7DS: release, voltage, size, weight, environment.
4. OneMiners product page, WhatsMiner M7DS 678 TH/s: bin, power, voltage, plug, weight, noise, coolant notes.
5. 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. D-series specifications and limits, MicroBT hydro installation, WhatsMinerTool setup, pools, coolant testing and draining, troubleshooting. Conflicts listed in 1.4. Current warranty, hosting and contact details.