ePIC UMC for WhatsMiners

Complete User Guide

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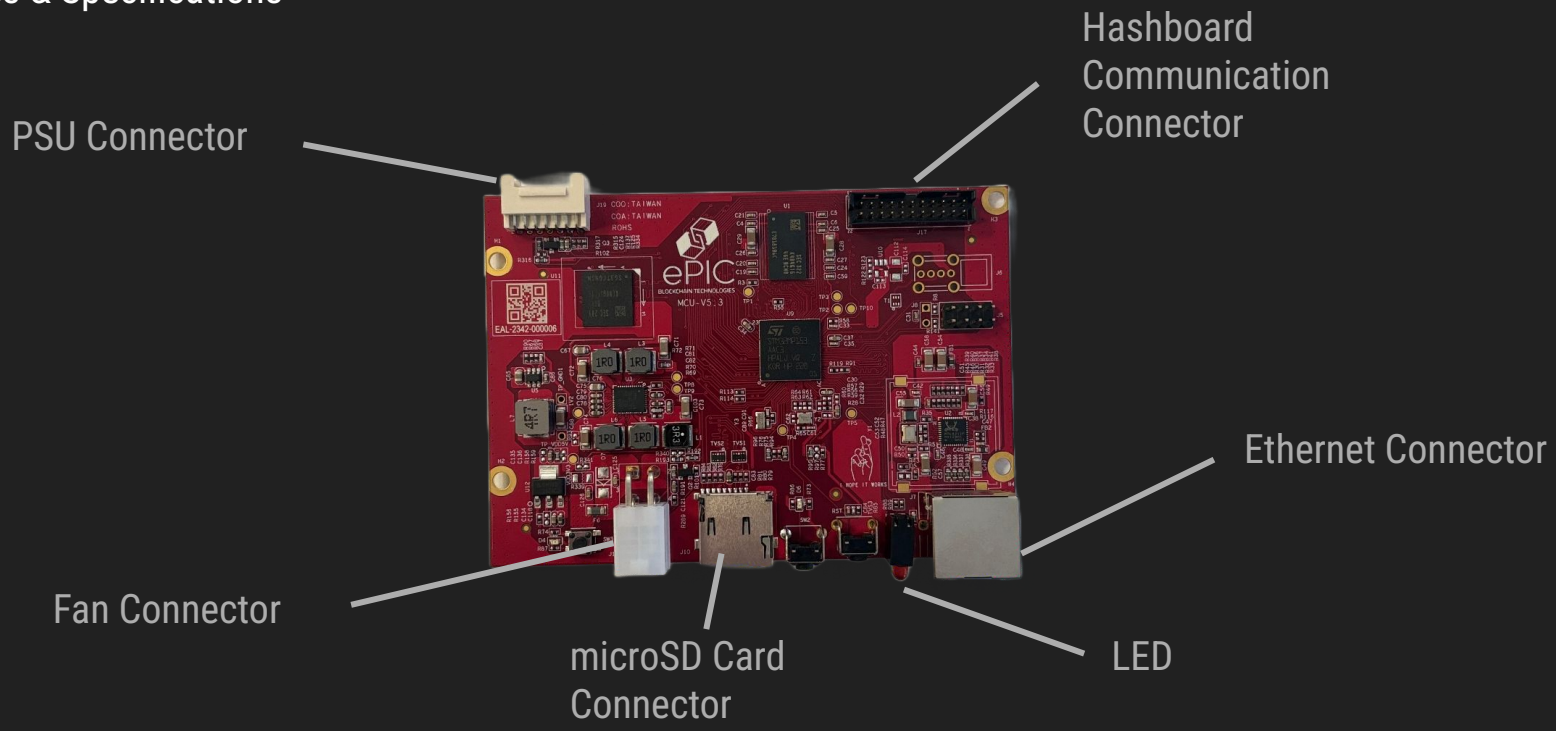
Installing ePIC UMC Control Board

1. ePIC UMC for Whatsminer Overview

Our ePIC UMC V5.3 is compatible with Whatsminer products

Features & Specifications



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Components

Included	Not Included
ePIC UMC v5.3	MicroSD Card SD card to USB adapter Power Cords Ethernet Cable
Required Tool : Screwdriver 	

2. Installation Instructions

How to disassemble the miner

a. Unscrew the 4 screws in the direction as shown

Whatsminer M30S+

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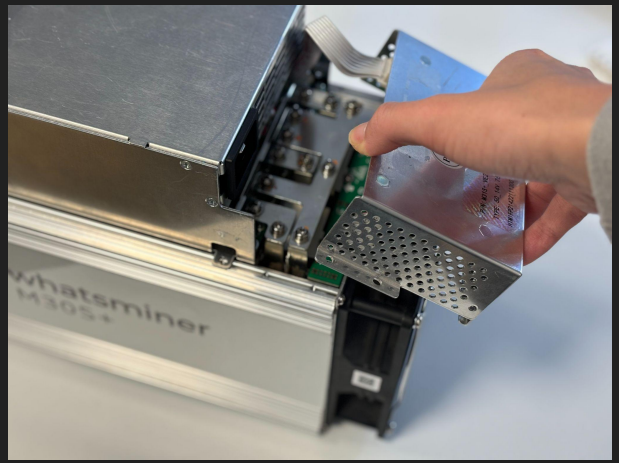
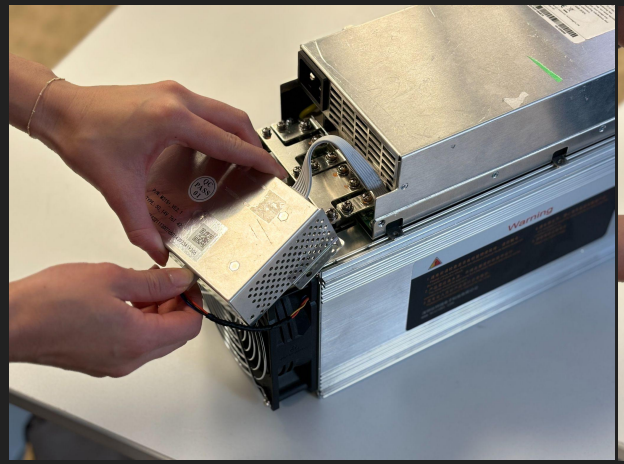
b. Lift the metal cage

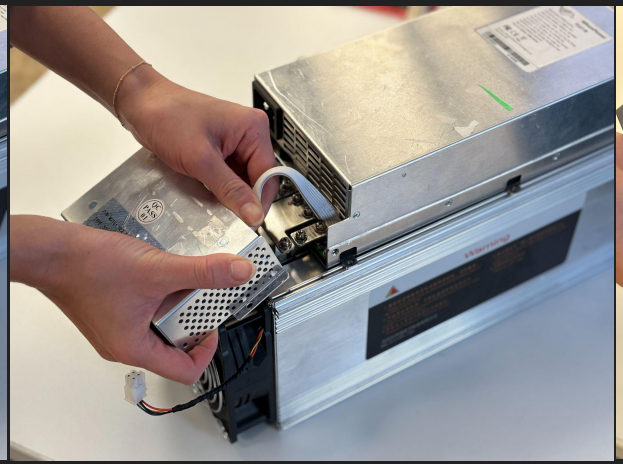


How to Disconnect Whatsminer Control Board

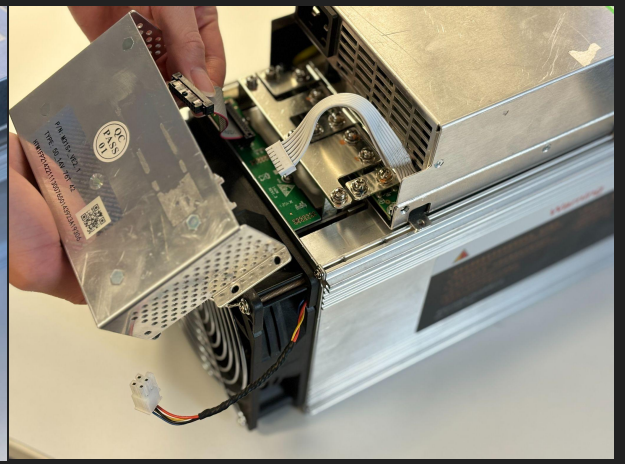
c. Disconnect the fan, PSU, and hashboard connectors



Fan



PSU



Hasboard

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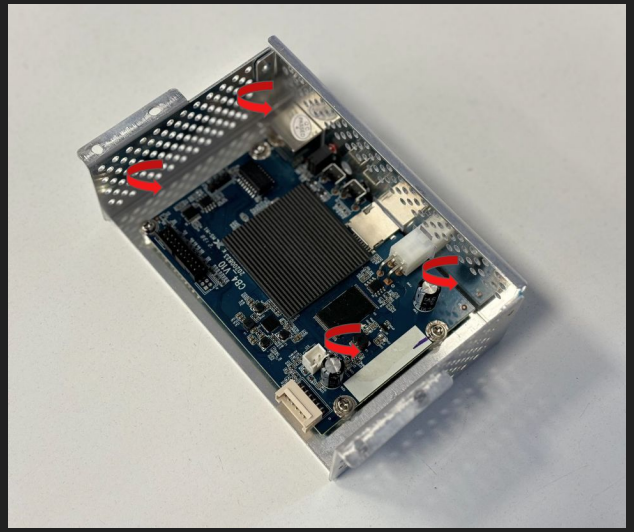
d. Unscrew the 4 screws in the direction as shown



How to Connect ePIC UMC Control Board

e. Secure the ePIC UMC using the 4 screws in the direction as shown

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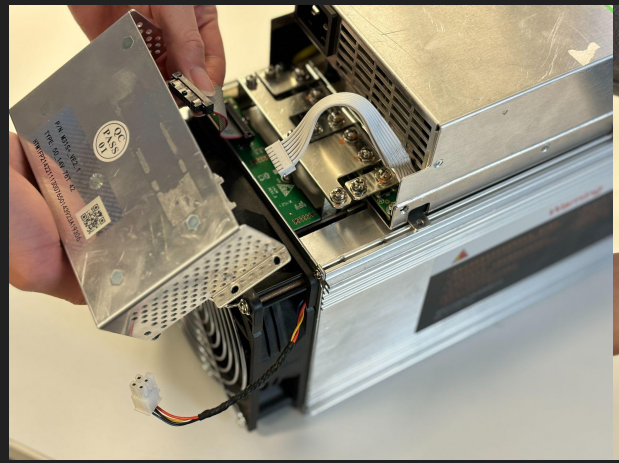
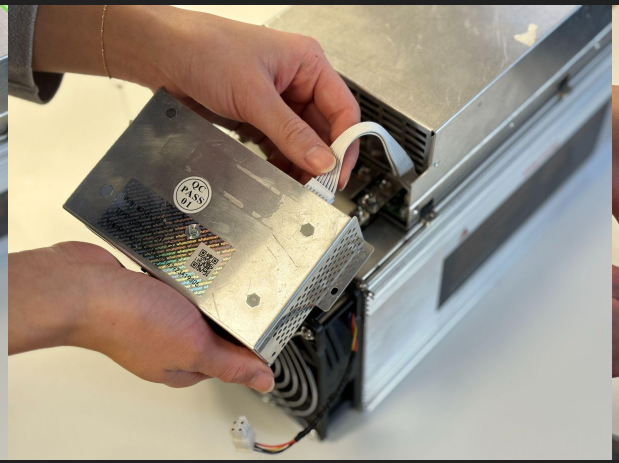
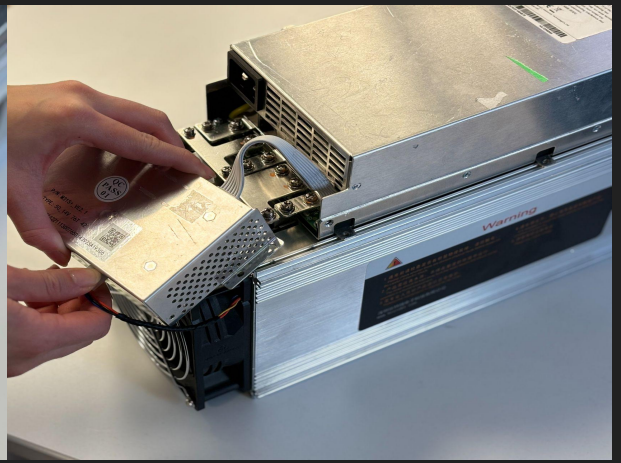
f. Connect the hashboard, PSU, and the fan connector



Hashboard



PSU



Fan

How to Reassemble the Miner

e. Secure the metal plate using the 4 screws below.

3. List of models with ePIC UMC Support

Example - How to Identify WhatsMiner Models ePIC UMC Support

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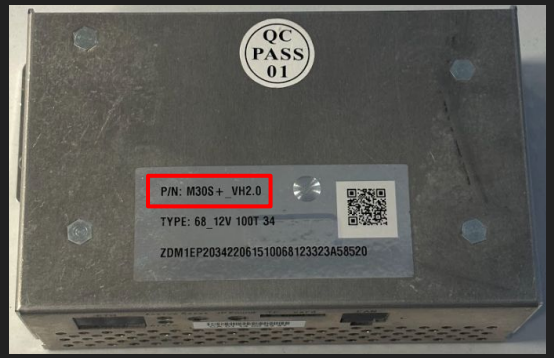
1. You will look at the P/N on top of the WhatsMiner
2. P/N indicates model of your WhatsMiner and the part number



Model Name

M30S+_VH2.0

Supported Part Number

Models / Supported Serial Number	M30S	M30S+	M30S++	M33S+	M33S++	M36S++	M50	M50s	M53	M56
VH1x	✔	✔	✔				✔			
VH2x	✔	✔	✔	✔	✔		✔	✔		
VH3x		✔	✔	✔		✔	✔	✔	✔	✔
VH4x	✔	✔	✔				✔			
VH5x	✔	✔	✔				✔			
VH6x		✔	✔				✔			
VH7x			✔							
VH8x			✔							
VH9x			✔							

3. Check the table for VHx & 0x1968 Chip Type and find out if this model is supported.
4. In this case, M30S+_VH2.0 is supported by ePIC UMC.

VEx & 0x1950 Chip Type

Models / Supported Part Number	M30S	M30S+	M30S++	M31S	M31S+	M34S+	M36S	M50
VE1x	✔			✔	✔	✔	✔	
VE2x	✔			✔	✔			
VE3x	✔	✔	✔		✔			✔
VE4x	✔	✔	✔		✔			
VE5x	✔	✔	✔		✔			
VE6x		✔						

VGx & 0x1960 Chip Type

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Models / Supported Part Number	M30S	M30S+	M30S++	M31S+	M33S	M33S+	M33S++	M36S+	M50
VG1x	✔								
VG2x	✔	✔		✔		✔			
VG3x	✔	✔	✔	✔	✔			✔	✔
VG4x	✔	✔	✔				✔		
VG5x		✔							
VG6x		✔							

VHx & 0x1968 Chip Type

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Models / Supported Part Number	M30S	M30S+	M30S++	M33S+	M33S++	M36S++	M50	M50s	M53	M56
VH1x	✔	✔	✔				✔			
VH2x	✔	✔	✔	✔	✔		✔	✔		
VH3x		✔	✔	✔		✔	✔	✔	✔	✔
VH4x	✔	✔	✔				✔			
VH5x	✔	✔	✔				✔			
VH6x		✔	✔				✔			
VH7x			✔							
VH8x			✔							
VH9x			✔							

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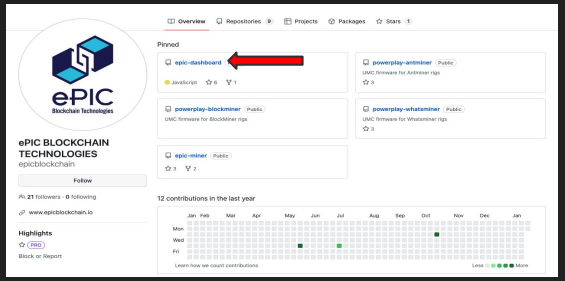
Using the ePIC Dashboard

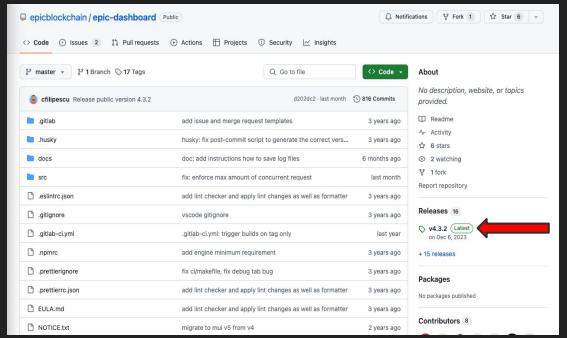
4. Download the ePIC Dashboard Installation Package

Click here to directly access to epic-dashboard

1. Go on ePIC GitHub and click epic-dashboard



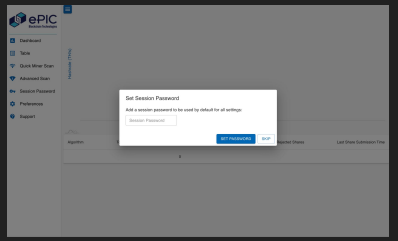
2. Click the latest release as shown



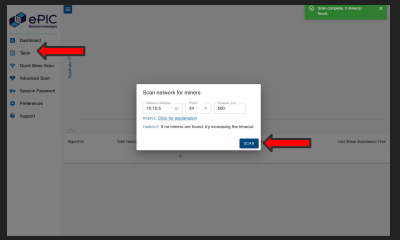
3. Choose your OS accordingly
4. Open the downloaded zip file
5. Run the epic-dashboard application

5. Find IP of the Miner

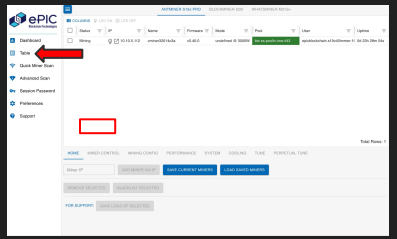
1. By default all of the miners have a password of **letmein**



2. Scanning for Miners
   - You can first try using the “Quick Miner Scan” in the sidebar. This will scan the network the computer is currently connected to
   - Click “Advanced Scan” and enter your Network Address, and choose the prefix, then hit “SCAN”

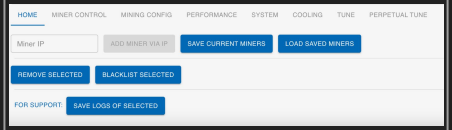
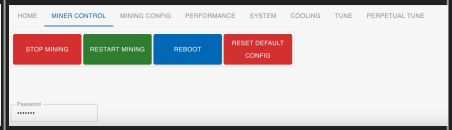
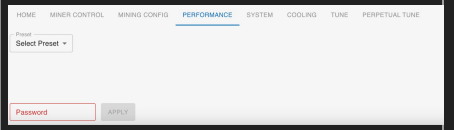


3. Go to “Table” and find IP of your miner under IP column



6. ePIC Dashboard - Control your miner

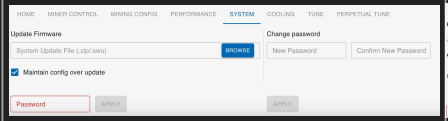
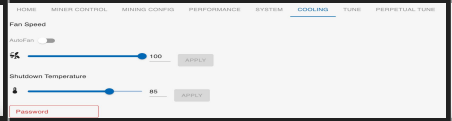
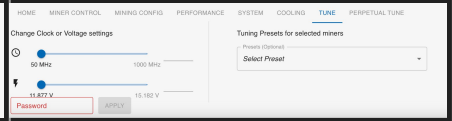
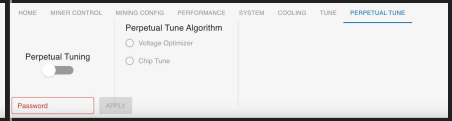
Password is required to apply the setting

HOME	MINER CONTROL	MINER CONFIG	PERFORMANCE
			
To add, save, load, remove and blacklist miners You can add your miner via IP	To execute the desired command Note: Your miner may take a few minutes to reboot	To copy a miner's config into the fields, select the miner and then click the "COPY MINER SETTINGS" button. All fields can also be cleared with the "CLEAR FIELDS' button	To select the desired Preset

*You must select which miners to apply the settings to by clicking the checkboxes on the left side of each row in the table

ePIC Dashboard

Password is required to apply the setting

SYSTEM	COOLING	TUNE	PERPETUAL TUNE
			
To update Firmware with the latest release, click here to download the zip file (**powerplay-xxxx-update-vxxxxxxx.zip**). Then hit “BROWSE” to upload the zip file. *DO NOT UNZIP Note: The “Maintain config over update” will save your settings across the update. Your miner will take a few minutes to reboot and recalibrate.	To set the desired fan speed and shutdown temperature. Note: There is a minimum fan speed tied to the miner’s current preset. If a speed lower than that is sent, it will be ignored, with no feedback	To set the desired clock frequency and voltage.	To turn on Perpetual Tuning, select the desired Perpetual Tune Algorithm

*You must select which miners to apply the settings to by clicking the checkboxes on the left side of each row in the table

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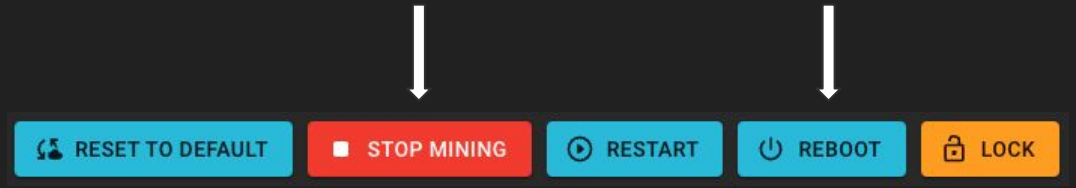
Using the ePIC Webdash

7. Control Panel

To execute the desired command



Stops the miner from mining

Turns miner off and back on. Mining will restart once miner is turned back on

Sets the machine back to its original state with reinstallation of the system

Restarts mining software without rebooting the miner

Locks or unlocks the Webdash for security

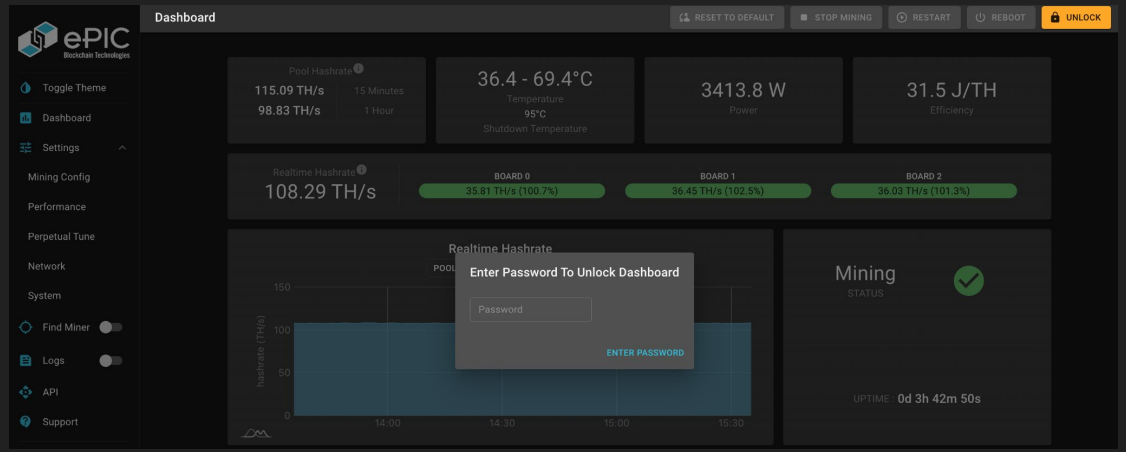
Note: your miner may take a few minutes to reboot but it will keep mining

Unlocking Miner

To get an access to the Webdash

1. Enter your miner IP on a desired web browser.
2. Click the LOCK button in the top right corner and enter the password.

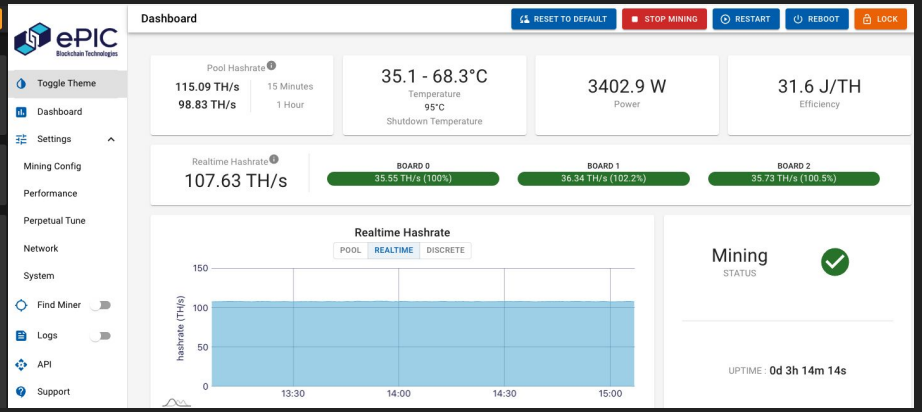
Password by default : letmein



8. Toggle Theme

To change the colour of the Webdash environment

Dark Mode



Light Mode

9. Dashboard

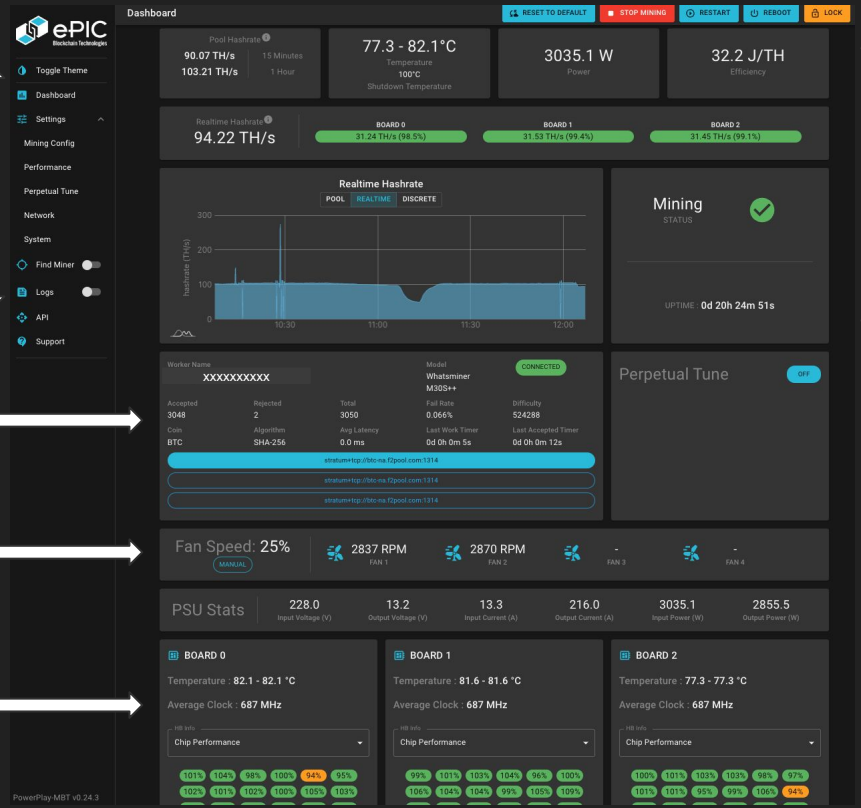
To view status of a miner

Configuration options

Pool status

Fan speed

Hasboard chips information

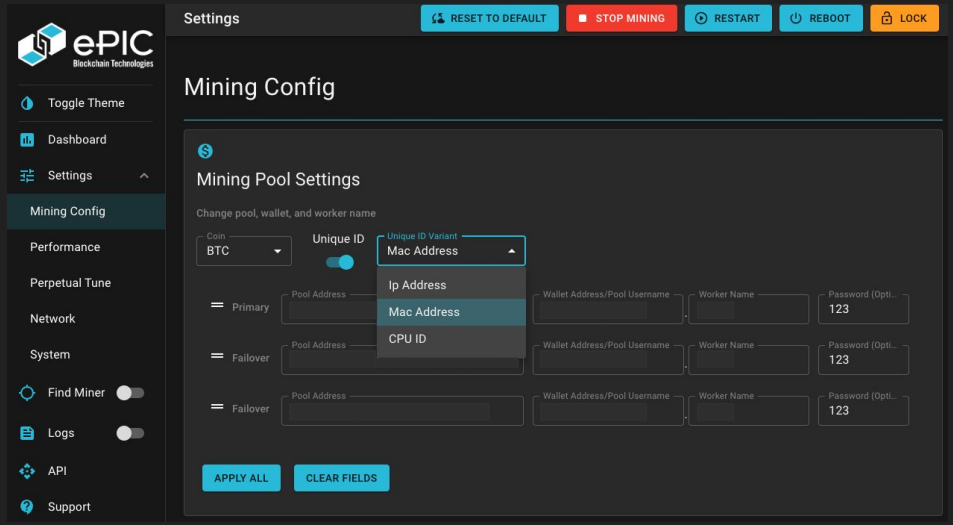


Real-time mining status

PSU status

10. Settings - Mining Config

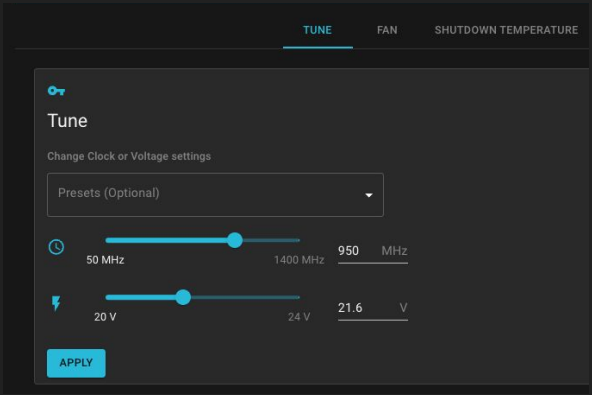
To modify and configure a miner



Our firmware supports 3 mining pools in case a connection cannot be made, which takes precedence from top to bottom.

“Unique ID” will append the unique miner id at the end of the worker name if enabled.

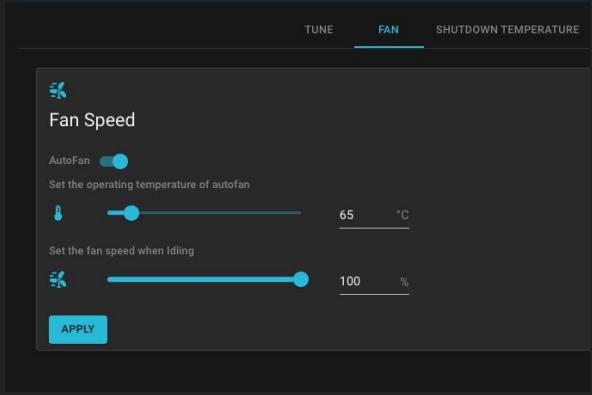
Performance



Tune

Choose the desired preset, or input your own voltage and frequency

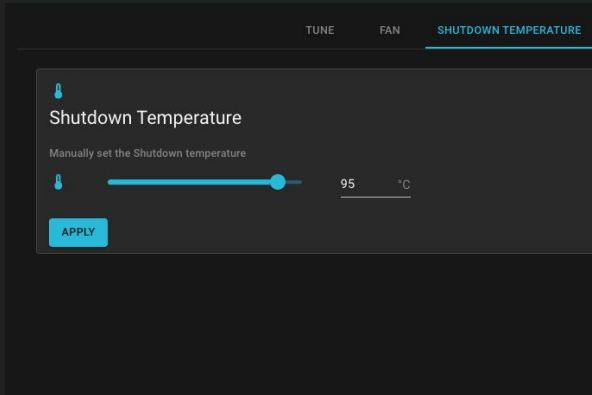
Note: your miner may take up to 2 minutes to recalibrate



Fan

Set the desired fan speed

Note: it is generally recommended to turn on AutoFan. There is a minimum Fan speed tied to the miner's current preset. If a speed is lower than that is set, it will be ignored, with no feedback.

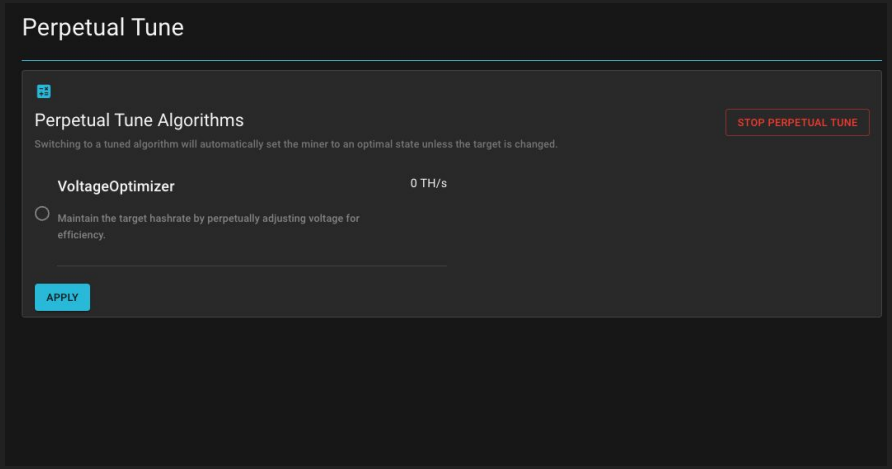


Shutdown Temperature

Set the desired shutdown temperature to prevent overheating

Perpetual Tune

To maintain the target hashrate at best performance

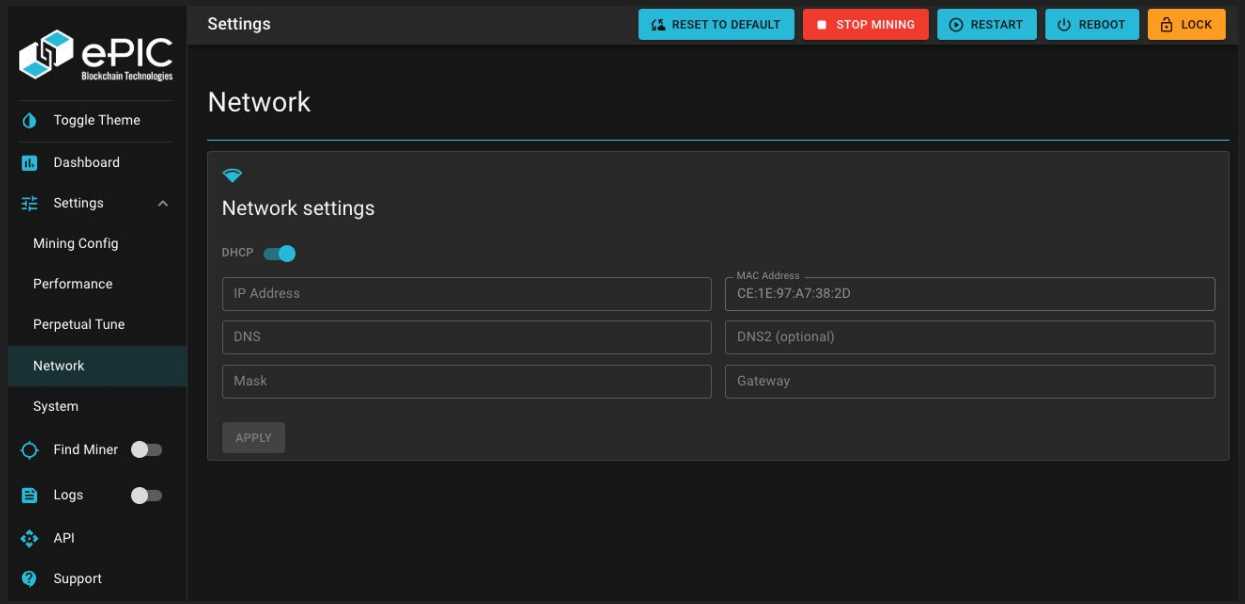


Whatsminer

Turn on the “VoltageOptimizer” toggle, and enter your target hashrate

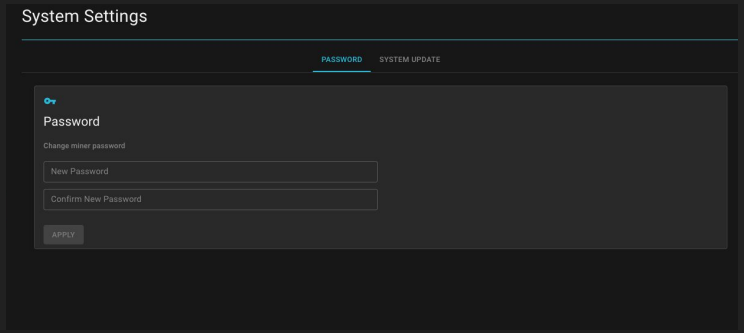
Note: Perpetual Tuning is only available in firmware version 0.23.4 or later. Chiptune is not available in Whatsminers.

Network



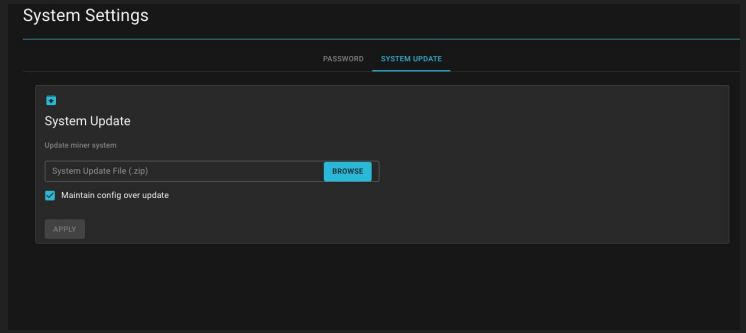
Turn off the DHCP toggle if you want to set static IPs for your operation.
Enter the fields and hit “APPLY”

System



Password

Enter your new password, confirm, then hit “APPLY”



System Update

Download the latest release of the firmware from [ePIC Github]
Download the zip file
powerplay-xxxx-update-vxxxxxxx.zip
Upload, then hit “APPLY”
*DO NOT UNZIP!

Note: The “Maintain config over update” will save your settings across the update.
Your miner will take a few minutes to reboot and recalibrate.

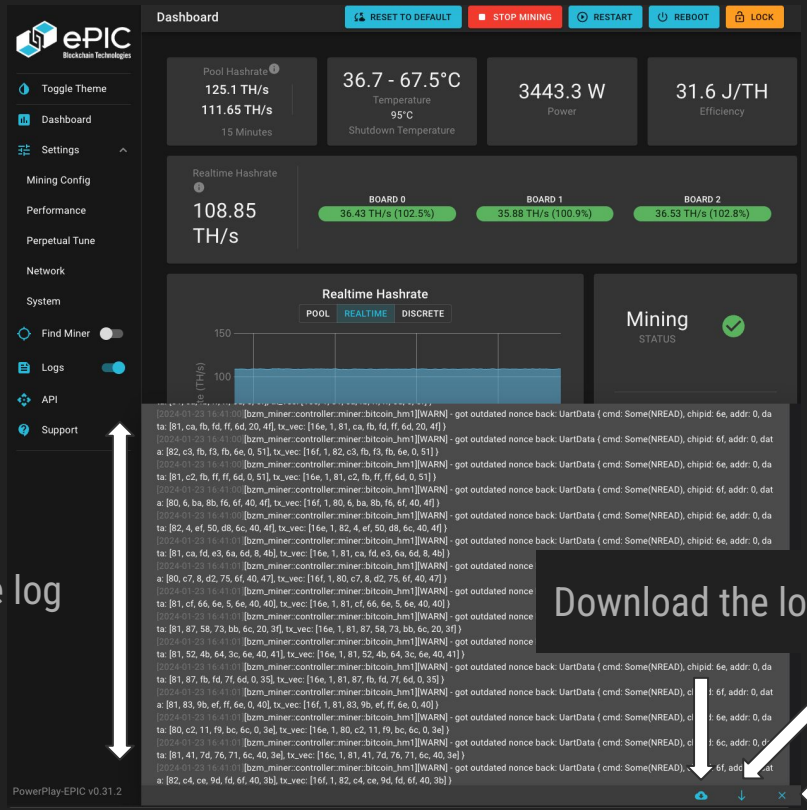
11. Find Miner

Turn on the
“Find Miner” toggle.
Your miner will be
flashing red light

Indicates that your miner will be flashing
red light

12. Logs

Turn “Logs” toggle on



Real-time log

Download the logs

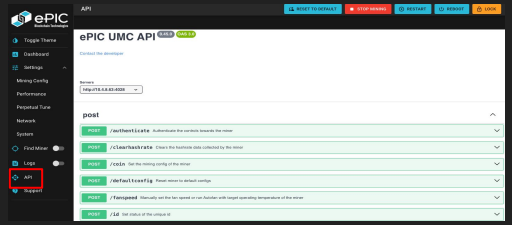
Scroll to bottom

Close the logs

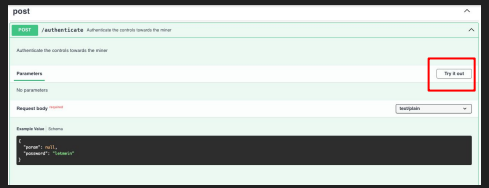
13. API

To manually enable application

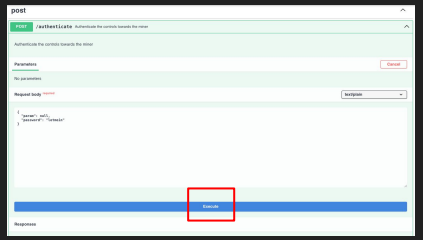
1. Click API and click the desired command to run



2. Click “Try it out”



3. Enter the desired value and click “Execute”



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Have a question?

Website
https://epicblockchain.io/support/

Email
Support@epicblockchain.io

Github
https://github.com/epicblockchain

Twitter
https://twitter.com/ePICBlockchain

Telegram
https://t.me/epic_umc