

# ePIC UMC for WhatsMiners

Complete User Guide

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## **Installing ePIC UMC Control Board**

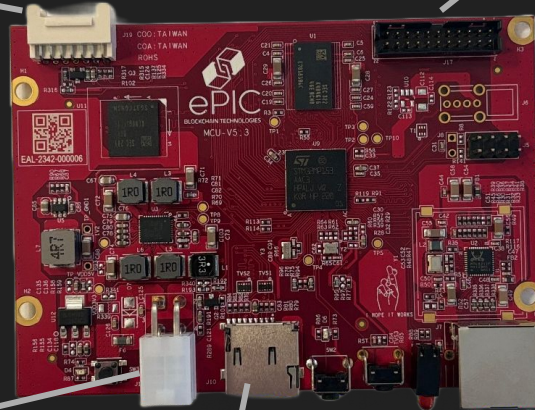
# 1. ePIC UMC for Whatsminer Overview

Our ePIC UMC V5.3 is compatible with Whatsminer products

## Features & Specifications

PSU Connector

Dashboard  
Communication  
Connector




Ethernet Connector

Fan Connector

microSD Card  
Connector

LED

## Components

<b>Included</b>	<b>Not Included</b>
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



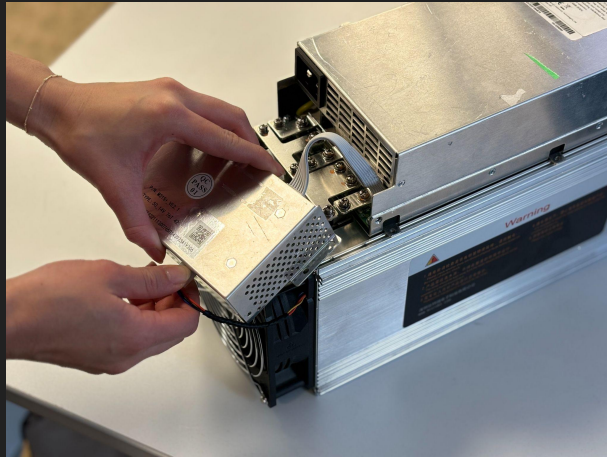
Whatsminer M30S+

b. Lift the metal cage

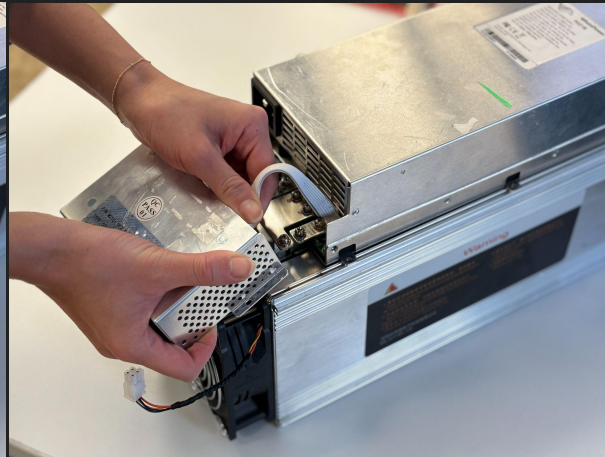


## How to Disconnect Whatsminer Control Board

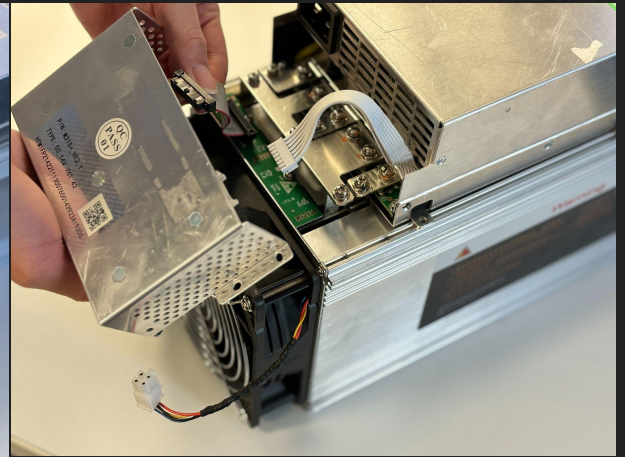
### c. Disconnect the fan, PSU, and hashboard connectors



Fan



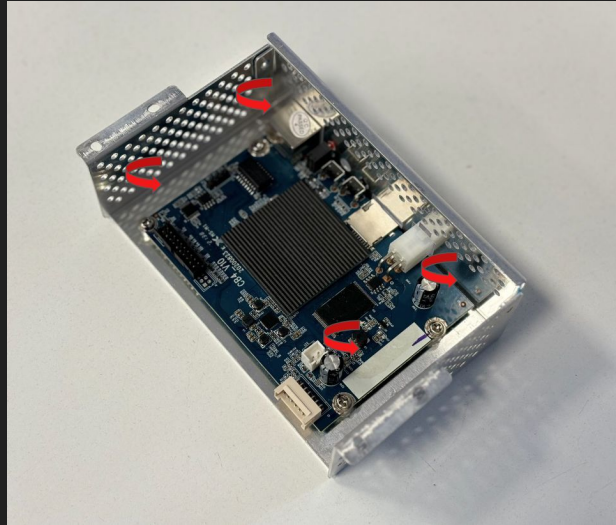
PSU



Hasboard



d. Unscrew the 4 screws in the direction as shown

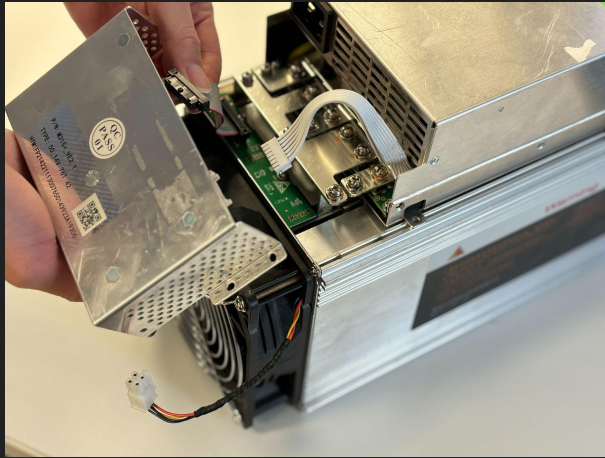


## How to Connect ePIC UMC Control Board

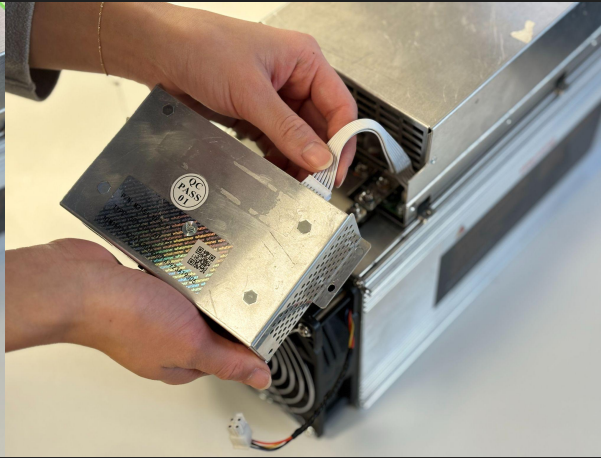
e. Secure the ePIC UMC using the 4 screws in the direction as shown



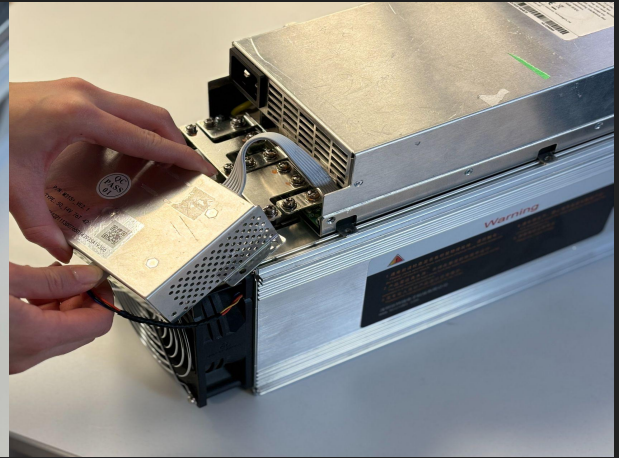
f. Connect the hashboard, PSU, and the fan connector



Hashboard



PSU



Fan

## How to Reassemble the Miner

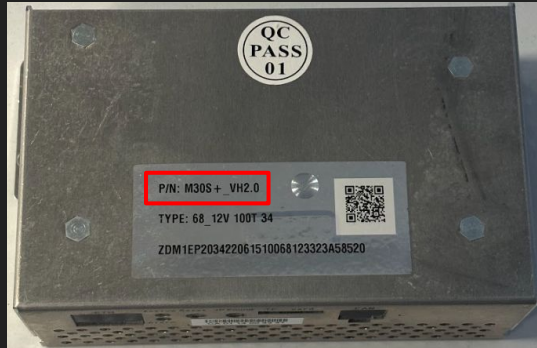
e. Secure the metal plate using the 4 screws below.



### **3. List of models with ePIC UMC Support**

## Example - How to Identify WhatsMiner Models ePIC UMC Support

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

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



# VHx & 0x1968 Chip Type



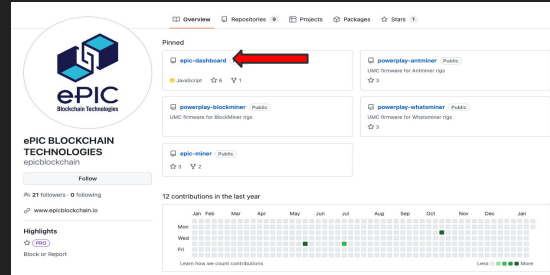
Models Supported Part Number	M30S	M30S+	M30S++	M33S+	M33S++	M36S++	M50	M50s	M53	M56
VH1x	✓	✓	✓				✓			
VH2x	✓	✓	✓	✓	✓		✓	✓		
VH3x		✓	✓	✓		✓	✓	✓	✓	✓
VH4x	✓	✓	✓				✓			
VH5x	✓	✓	✓				✓			
VH6x		✓	✓				✓			
VH7x			✓							
VH8x			✓							
VH9x			✓							

## **Using the ePIC Dashboard**

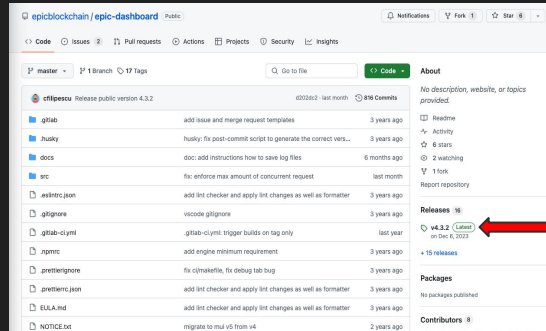
## 4. Download the ePIC Dashboard Installation Package

Click [here](#) to directly access to epic-dashboard

1. Go on [ePIC GitHub](#) and click epic-dashboard



2. Click the latest release as shown



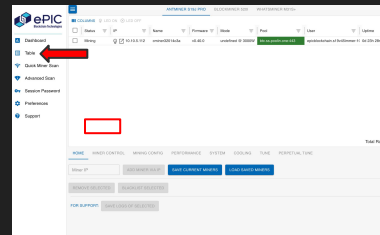
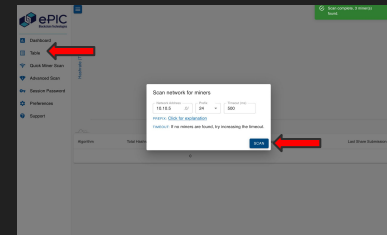
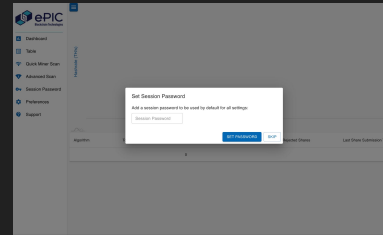
3. Choose your OS accordingly

4. Open the downloaded zip file

5. Run the epic-dashboard application

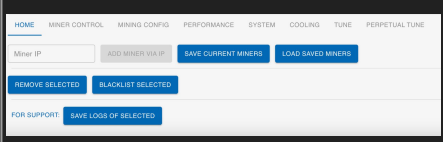
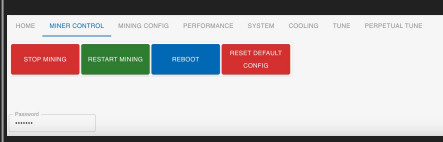
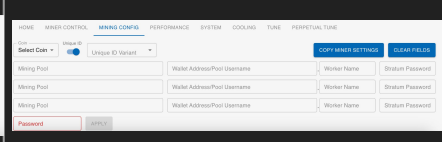
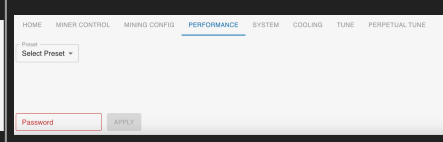
## 5. Find IP of the Miner

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

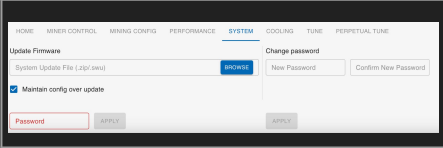
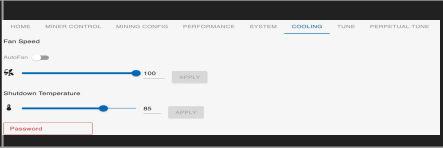
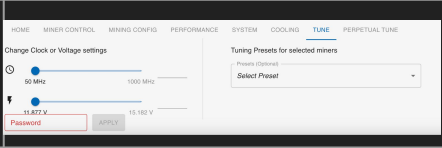
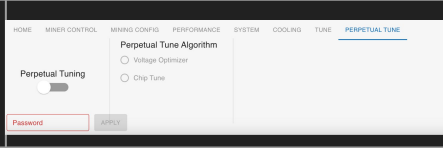
Password is required to apply the setting

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

\*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

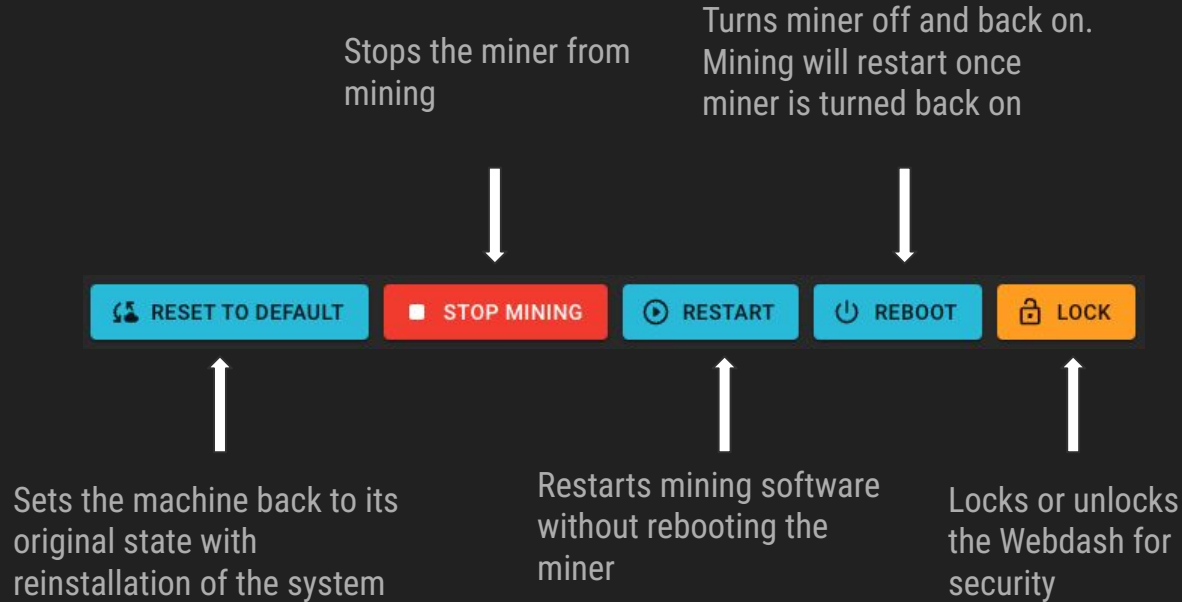
SYSTEM	COOLING	TUNE	PERPETUAL TUNE
			
<p>To update Firmware with the latest release, click <a href="#">here</a> to download the zip file (<b>powerplay-xxxx-update-vxxxxxxx.zip</b>). Then hit “BROWSE” to upload the zip file. <b>*DO NOT UNZIP</b></p> <p>Note: The “Maintain config over update” will save your settings across the update. Your miner will take a few minutes to reboot and recalibrate.</p>	<p>To set the desired fan speed and shutdown temperature.</p> <p>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</p>	<p>To set the desired clock frequency and voltage.</p>	<p>To turn on Perpetual Tuning, select the desired Perpetual Tune Algorithm</p>

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

## **Using the ePIC Webdash**

## 7. Control Panel

To execute the desired command




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

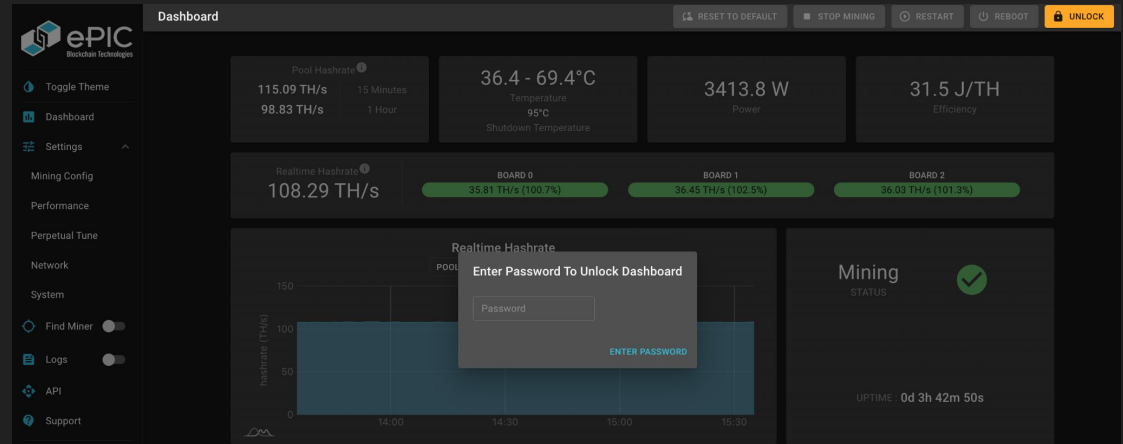


## Unlocking Miner

To get an access to the Webdash

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

Password by default : letmein



The screenshot displays the ePIC miner dashboard interface. At the top right, there is a navigation bar with buttons for 'RESET TO DEFAULT', 'STOP MINING', 'RESTART', 'REBOOT', and a highlighted 'UNLOCK' button. The main dashboard area is divided into several sections:

- Pool Hashrate:** Shows 115.09 TH/s (15 Minutes) and 98.83 TH/s (1 Hour).
- Temperature:** Displays 36.4 - 69.4°C, with a current temperature of 95°C and a shutdown temperature.
- Power:** Shows 3413.8 W.
- Efficiency:** Shows 31.5 J/TH.
- Realtime Hashrate:** Displays 108.29 TH/s, broken down by board: BOARD 0 (35.81 TH/s, 100.7%), BOARD 1 (36.45 TH/s, 102.5%), and BOARD 2 (36.03 TH/s, 101.3%).
- Realtime Hashrate Graph:** A line graph showing hashrate (TH/s) over time from 14:00 to 15:30. A modal window is overlaid on the graph, titled 'Enter Password To Unlock Dashboard', with a 'Password' input field and an 'ENTER PASSWORD' button.
- Mining Status:** Shows 'Mining STATUS' with a green checkmark and 'UPTIME: 0d 3h 42m 50s'.

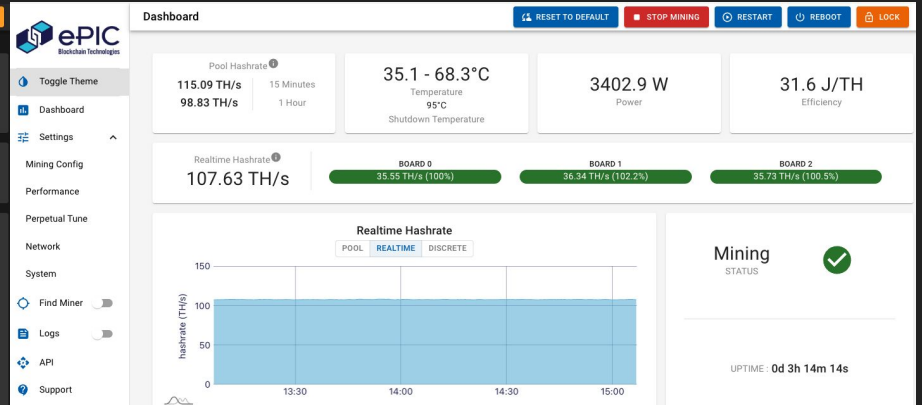
The left sidebar contains navigation options: Toggle Theme, Dashboard, Settings, Mining Config, Performance, Perpetual Tune, Network, System, Find Miner, Logs, API, and Support.

## 8. Toggle Theme

To change the colour of the Webdash environment



Dark Mode



Light Mode

# 9. Dashboard

To view status of a miner



The dashboard provides a comprehensive overview of the miner's performance and health. Key sections include:

- Pool Hashrate:** 90.07 TH/s (15 Minutes), 103.21 TH/s (1 Hour)
- Temperature:** 77.3 - 82.1 °C (Shutdown Temperature: 100 °C)
- Power:** 3035.1 W
- Efficiency:** 32.2 J/TH
- Realtime Hashrate:** 94.22 TH/s, with individual board rates: BOARD 0 (31.24 TH/s, 98.5%), BOARD 1 (31.53 TH/s, 99.4%), and BOARD 2 (31.45 TH/s, 99.1%).
- Realtime Hashrate Graph:** A line graph showing hashrate fluctuations over time.
- Mining Status:** Mining is active (green checkmark), with an uptime of 0d 20h 24m 51s.
- Worker Name:** XXXXXXXXXXXX, Model: Whatminer M30S++ (CONNECTED)
- Perpetual Tune:** OFF
- Fan Speed:** 25% (MANUAL), with individual fan speeds: FAN 1 (2837 RPM), FAN 2 (2870 RPM), FAN 3, and FAN 4.
- PSU Stats:** Input Voltage (V): 228.0, Output Voltage (V): 13.2, Input Current (A): 13.3, Output Current (A): 216.0, Input Power (W): 3035.1, Output Power (W): 2855.5
- Hasboard chips information:** Detailed temperature and clock speed data for each board (BOARD 0, BOARD 1, BOARD 2), including average clock speeds of 687 MHz and individual chip performance metrics.

Configuration options

Real-time mining status

Pool status

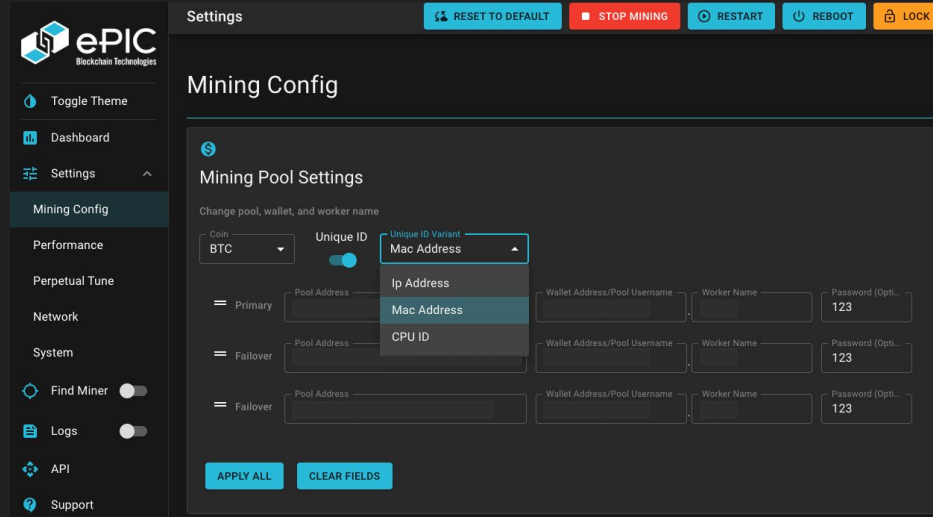
Fan speed

PSU status

Hasboard chips information

## 10. Settings - Mining Config

To modify and configure a miner

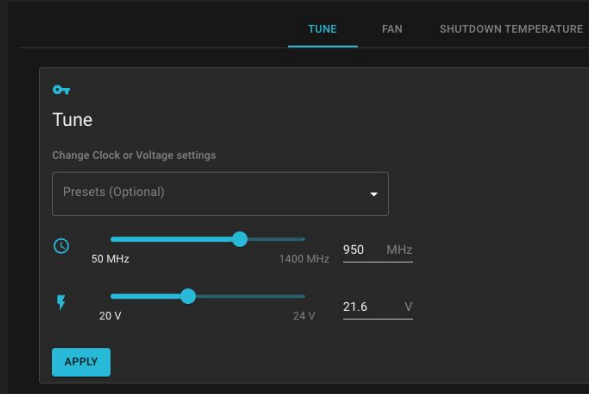


The screenshot shows the 'Mining Config' settings page in the ePIC interface. The page is titled 'Mining Pool Settings' and includes a sub-header 'Change pool, wallet, and worker name'. At the top right, there are five buttons: 'RESET TO DEFAULT', 'STOP MINING', 'RESTART', 'REBOOT', and 'LOCK'. The main content area is divided into three sections: 'Primary', 'Failover', and another 'Failover' section. Each section contains fields for 'Pool Address', 'Wallet Address/Pool Username', 'Worker Name', and 'Password (Opt.)'. The 'Primary' section has a 'Password (Opt.)' field with the value '123'. The 'Unique ID' section is enabled, and the 'Unique ID Variant' dropdown menu is open, showing options for 'Mac Address', 'Ip Address', and 'CPU ID'. The 'Mac Address' option is currently selected. At the bottom of the page, there are two buttons: 'APPLY ALL' and 'CLEAR FIELDS'. The left sidebar contains navigation options: 'Toggle Theme', 'Dashboard', 'Settings', 'Mining Config', 'Performance', 'Perpetual Tune', 'Network', 'System', 'Find Miner', 'Logs', 'API', and 'Support'.

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.

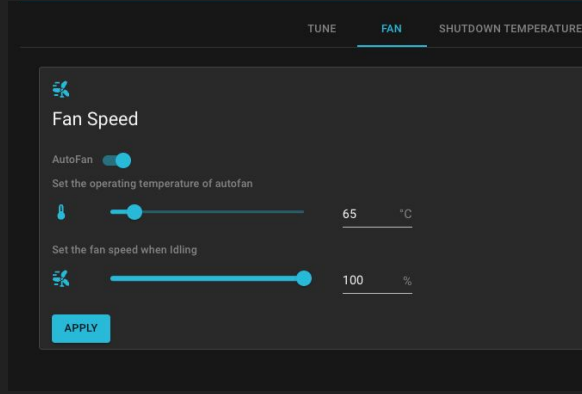
# Performance



Tune

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

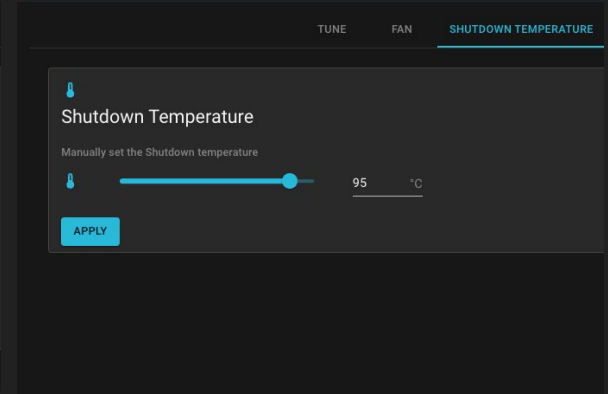
Note: your miner may take up to 2 minutes to recalibrate



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.

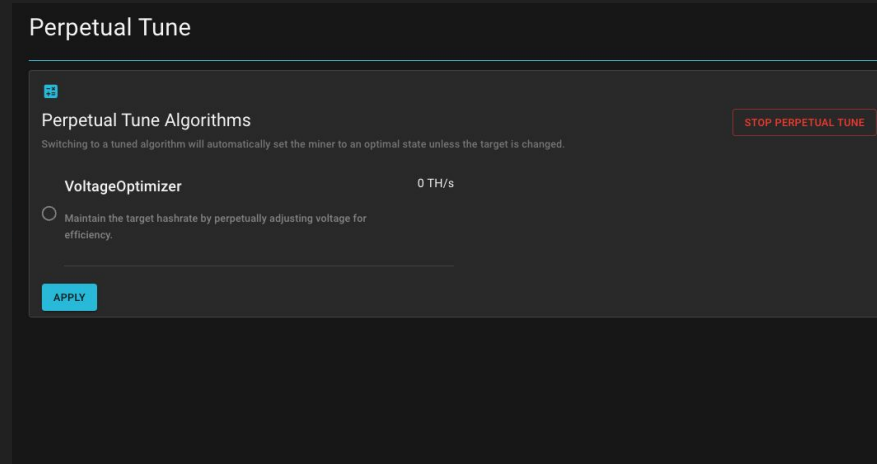


Shutdown Temperature

Set the desired shutdown temperature to prevent overheating

## Perpetual Tune

To maintain the target hashrate at best performance

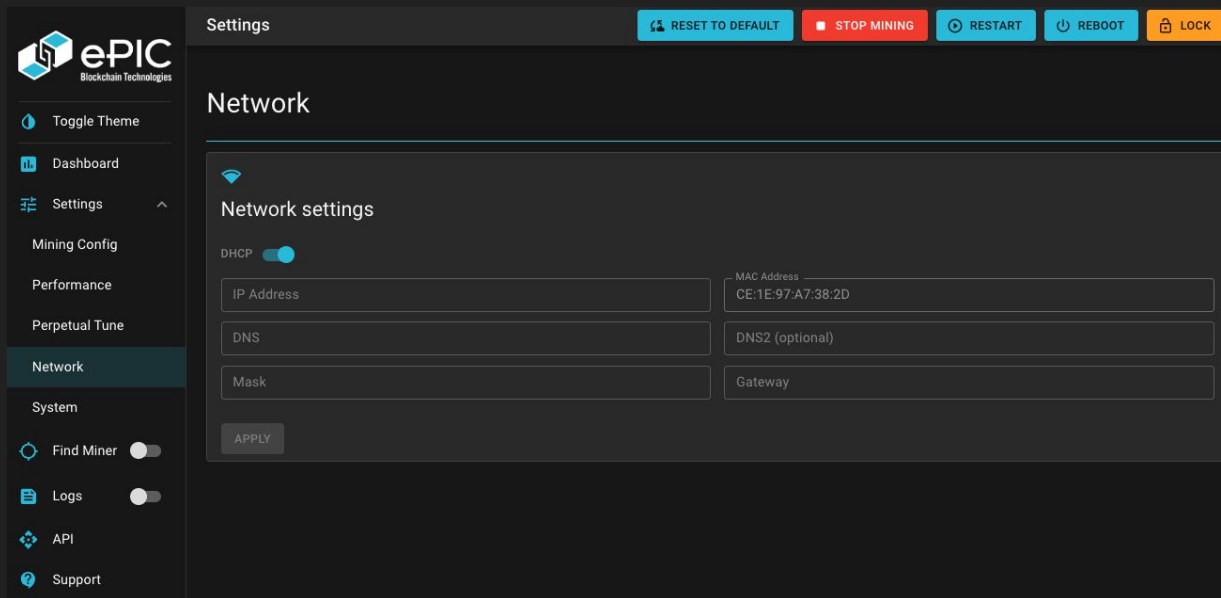


Whatsminer

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

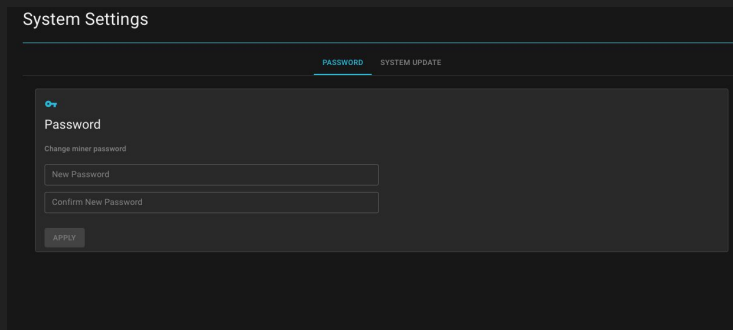
Note: Perpetual Tuning is only available in firmware version 0.23.4 or later. Chiptune is not available in Whatsminers.

# Network



The screenshot shows the ePIC Network settings page. At the top, there are five action buttons: 'RESET TO DEFAULT' (blue), 'STOP MINING' (red), 'RESTART' (blue), 'REBOOT' (blue), and 'LOCK' (orange). The left sidebar contains navigation options: 'Toggle Theme', 'Dashboard', 'Settings' (selected), 'Mining Config', 'Performance', 'Perpetual Tune', 'Network' (highlighted), 'System', 'Find Miner' (toggle), 'Logs' (toggle), 'API', and 'Support'. The main content area is titled 'Network' and features a 'Network settings' section with a Wi-Fi icon and a DHCP toggle switch (currently turned on). Below the toggle are four input fields: 'IP Address', 'MAC Address' (pre-filled with 'CE:1E:97:A7:38:2D'), 'DNS', and 'DNS2 (optional)'. At the bottom of these fields are 'Mask' and 'Gateway' fields, and an 'APPLY' button.

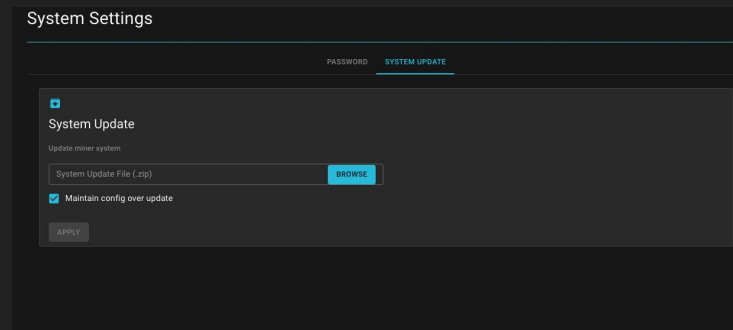
Turn off the DHCP toggle if you want to set static IPs for your operation.  
Enter the fields and hit "APPLY"



The screenshot shows the 'System Settings' interface with the 'PASSWORD' tab selected. The 'Password' section is active, displaying the text 'Change miner password'. Below this, there are two input fields: 'New Password' and 'Confirm New Password'. An 'APPLY' button is located at the bottom of the form.

## Password

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



The screenshot shows the 'System Settings' interface with the 'SYSTEM UPDATE' tab selected. The 'System Update' section is active, displaying the text 'Update miner system'. Below this, there is a file upload field labeled 'System Update File (.zip)' with a 'BROWSE' button. A checkbox labeled 'Maintain config over update' is checked. An 'APPLY' button is located at the bottom of the form.

## System Update

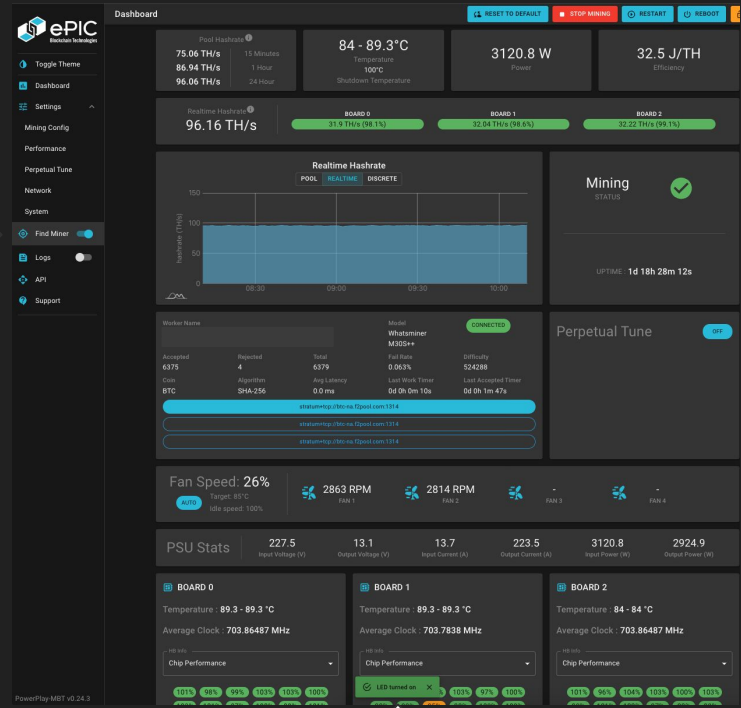
Download the latest release of the firmware from [ePIC Github](#)  
Download the zip file  
**powerplay-xxxx-update-vxxxxxxx.zip**  
Upload, then hit “APPLY”  
\*DO NOT UNZIP!

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



The dashboard displays the following information:

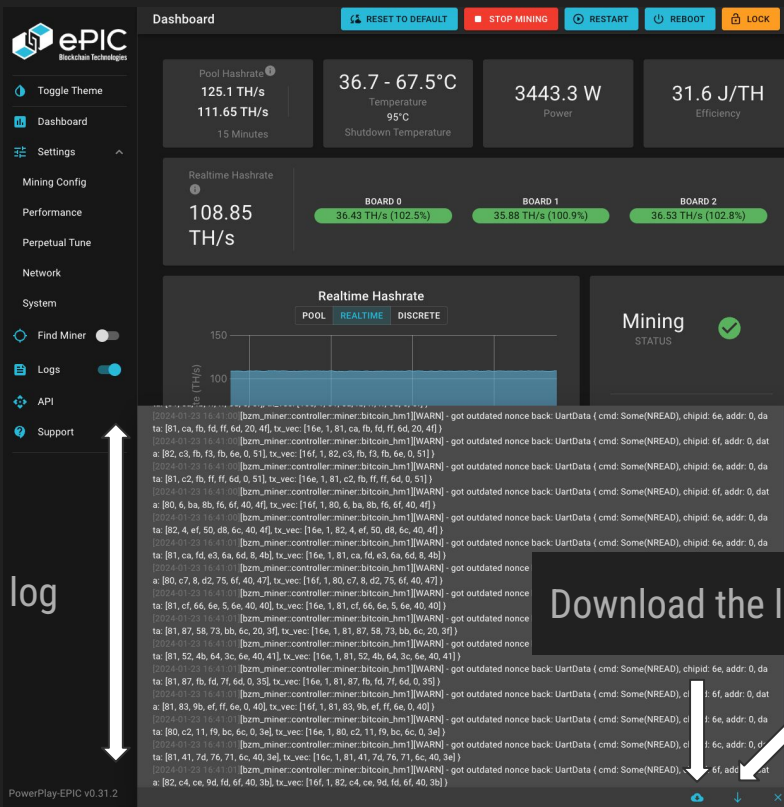
- Pool Hashrate:** 75.06 TH/s (15 Minutes), 86.94 TH/s (1 Hour), 96.06 TH/s (24 Hour)
- Temperature:** 84 - 89.3°C (Shutdown Temperature: 100°C)
- Power:** 3120.8 W
- Efficiency:** 32.5 J/TH
- Realtime Hashrate:** 96.16 TH/s (BOARD 0: 31.9 TH/s (34.1%), BOARD 1: 32.04 TH/s (34.1%), BOARD 2: 32.22 TH/s (34.1%))
- Realtime Hashrate Graph:** A line graph showing hashrate over time from 08:30 to 10:00.
- Mining Status:** Mining is active (green checkmark). Uptime: 1d 18h 28m 12s.
- Perpetual Tune:** 99%
- Worker Name:** Whatminer M30S++ (CONNECTED)
- Accepted/Rejected:** 6375 Accepted, 4 Rejected
- Est. BTC:** 944.256
- Fan Speed:** 26% (Target: 85°C, Idle speed: 100%). Fan 1: 2863 RPM, Fan 2: 2814 RPM.
- PSU Stats:** Input Voltage (V): 227.5, Output Voltage (V): 13.1, Input Current (A): 13.7, Output Current (A): 223.5, Input Power (W): 3120.8, Output Power (W): 2924.9
- Board Performance:** BOARD 0: Temperature 89.3 - 89.3°C, Average Clock 703.86487 MHz. BOARD 1: Temperature 89.3 - 89.3°C, Average Clock 703.7838 MHz. BOARD 2: Temperature 84 - 84°C, Average Clock 703.86487 MHz.
- Chip Performance:** BOARD 1 shows "LED turned on" with a red 'x' icon, indicating the flashing red light.



Indicates that your miner will be flashing  
red light

# 12. Logs

Turn "Logs" toggle on



Real-time log

Download the logs

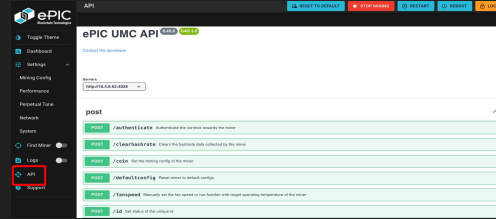
Scroll to bottom

Close the logs

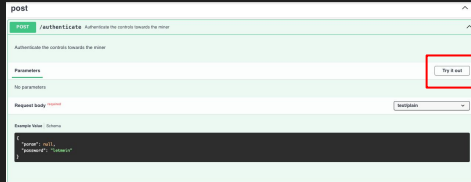
## 13. API

To manually enable application

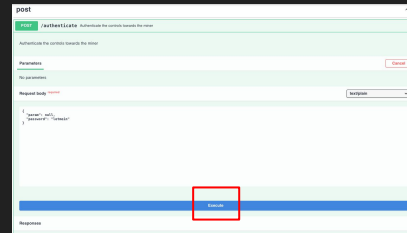
1. Click API and click the desired command to run



2. Click "Try it out"



3. Enter the desired value and click "Execute"



# Have a question?

## Website

<https://epicblockchain.io/support/>

## Email

[Support@epicblockchain.io](mailto:Support@epicblockchain.io)

## Github

<https://github.com/epicblockchain>

## Twitter

<https://twitter.com/ePICBlockchain>

## Telegram

[https://t.me/epic\\_umc](https://t.me/epic_umc)