

BITMAIN

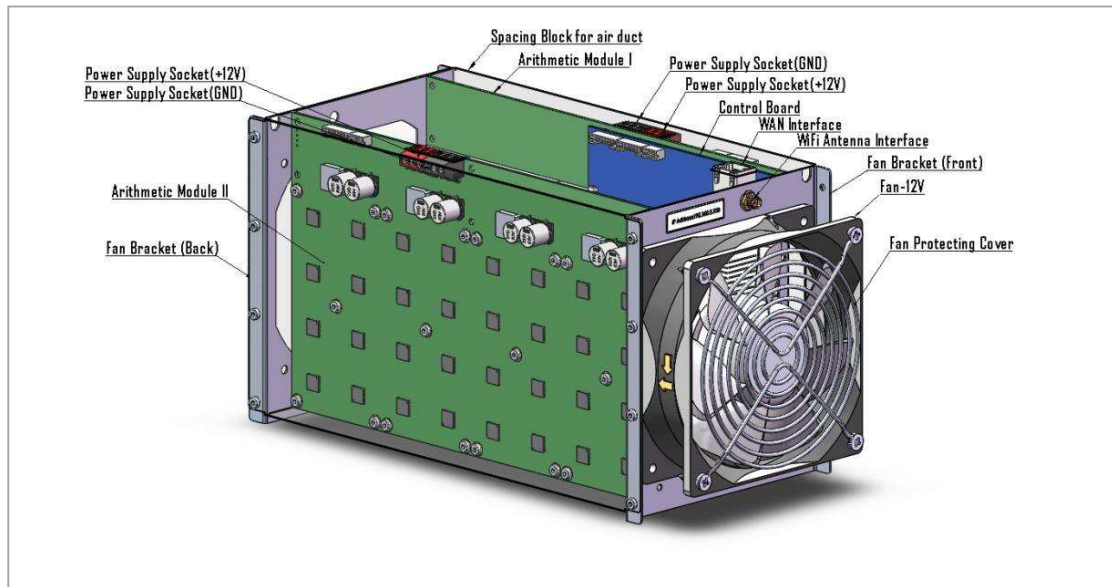
AntMiner Manual

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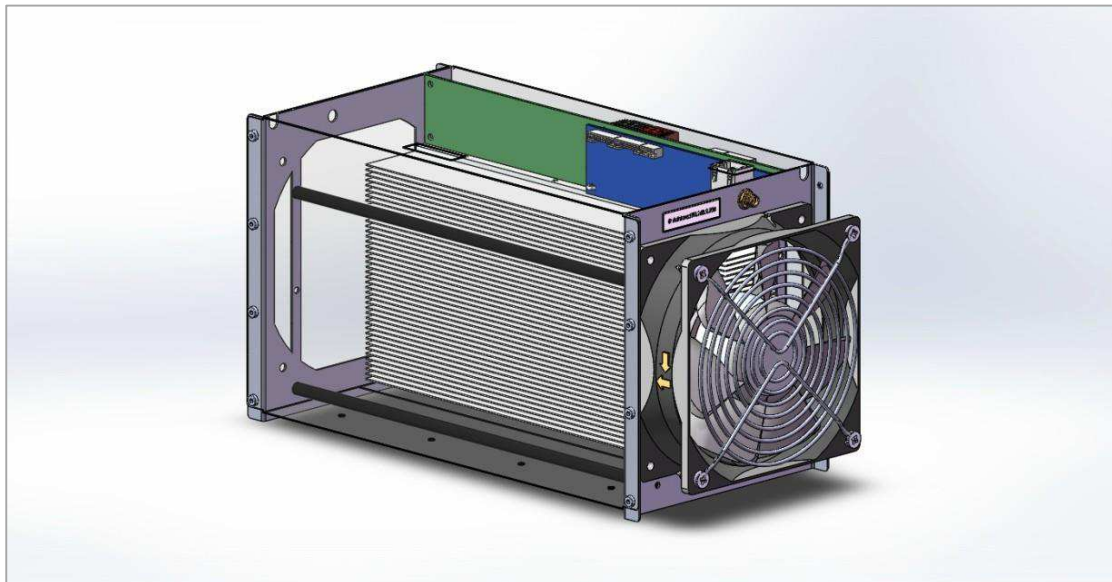
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1 The first glance

AntMiner S1 is a blade style miner, which contains two blades. It has been assembled before Fab out. Bellow screen shows all AntMiner S1's components:



One blade miner can work separately, it is showed in bellow:

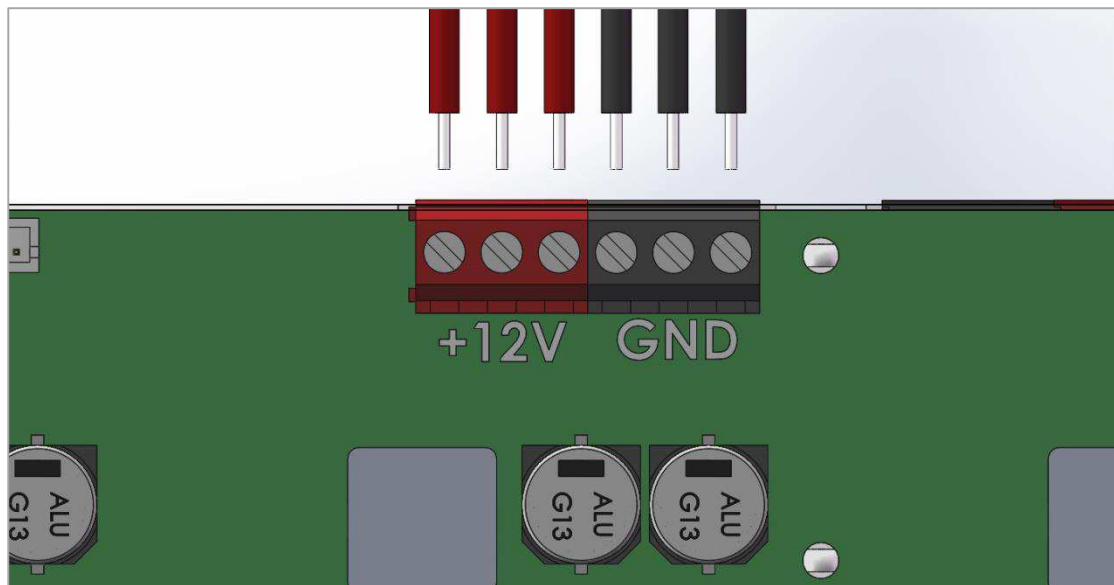


Notice:

1. You should prepare your own ATX Power Supply.
2. To connect your Miner via WIFI, you should prepare your own WIFI antenna.

2 Power Supply

Connect the 12V Power line to the Power Supply socket. Note not to reverse positive (+12V) to negative (GND).



3 Connect to Miner

3.1 WAN setting

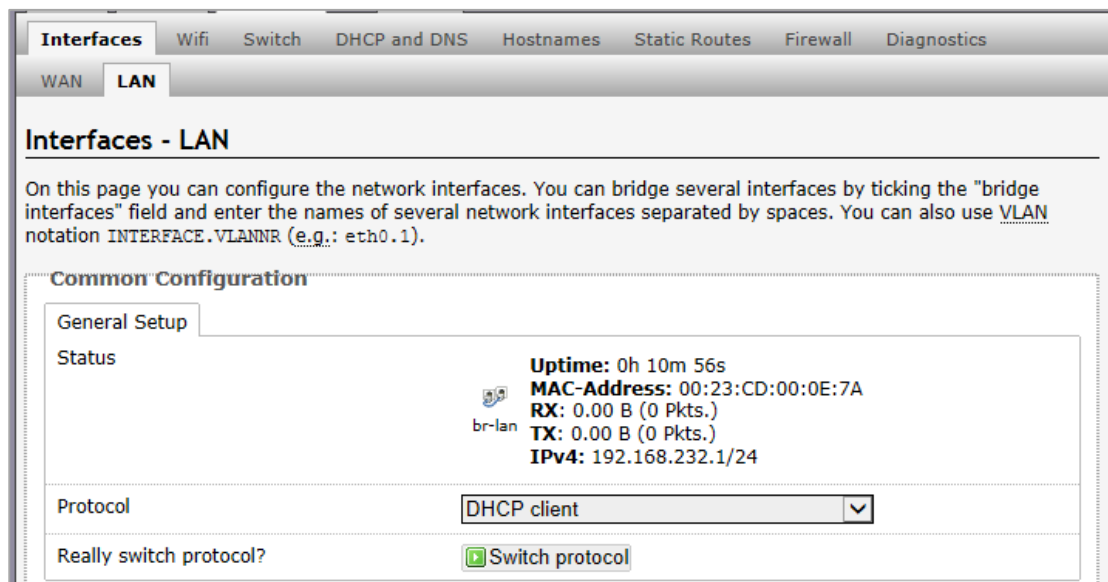
Step 1. Read the IP address labeled in the Fan Bracket (Front). Manually set up your PC's IP address in the network segment same as the miner's IP address.



Step 2. Connect miner and your PC via network cable.

Step 3. Enter miner's IP address into your web browser, then login miner management interface, both of username and password is 'root' by default.

Step 4. Set LAN as DHCP client. Click "Network->Interface->LAN", select DHCP client as the following page, and then click "Switch Protocol", and then click "Save & Apply". **The default LAN value of the first several batch is fixed to 192.168.1.1, and WAN address can't be set as 192.168.1.x, otherwise the AntMiner can't be accessed.** If your miner's LAN is set as DHCP by default, please ignore this step.



Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

Common Configuration

General Setup
Advanced Settings
Physical Settings
Firewall Settings

Status

eth0

Uptime: 0h 0m 0s

MAC-Address: 00:23:CD:00:0E:7A

RX: 0.00 B (0 Pkts.)

TX: 0.00 B (0 Pkts.)

Protocol DHCP client

Hostname to send when requesting DHCP

Reset Save Save & Apply

Step 5. Modify the IP address of the WAN interface. Click "Network->Interface->WAN" to modify the IP address of WAN in the following page.

Common Configuration

General Setup
Advanced Settings
Physical Settings
Firewall Settings

Status

eth1

Uptime: 0h 11m 35s

MAC-Address: 00:23:CD:00:0E:7C

RX: 1.51 MB (10298 Pkts.)

TX: 3.48 MB (6803 Pkts.)

IPv4: 192.168.1.51/24

Protocol Static address

IPv4 address 192.168.2.51

IPv4 netmask 255.255.255.0

IPv4 gateway 192.168.2.1

IPv4 broadcast 192.168.2.255

Use custom DNS servers 192.168.2.1

DHCP Server

General Setup

Ignore interface Disable DHCP for this interface.

Reset Save Save & Apply

Note:

1. WAN and LAN can't be at the same network segment. Please set WAN to DHCP client or different network segment with WAN. The LAN of new version of antMiner will be set to DHCP by default.
2. If you set fixed IP to WAN interface, please remember it, otherwise you may not access the antminer.

3.2 WIFI setting

There is WIFI built in the antMiner, and it can be used to connect to the Ethernet via another WIFI hot point. Note: Bad WIFI performance will reduce the antminer's hash rate. You have to prepare the WIFI antenna by yourself.

Through "Network->Wifi" you can click "Scan" and then add the exist WIFI signals in your environment.



The screenshot displays the AntMiner web interface. At the top, there's a dark blue header with the 'ANTMINER' logo. Below the header, there are navigation tabs: 'Status', 'System', 'Network', and 'Logout'. Under the 'Network' tab, there are sub-tabs: 'Interfaces', 'Wifi', 'DHCP and DNS', 'Hostnames', 'Static Routes', 'Firewall', and 'Diagnostics'. The 'Wifi' sub-tab is selected. The main content area is titled 'Wireless Overview'. It features a section for 'Generic MAC80211 802.11bgn (radio0)' with a 'Scan' button and an 'Add' button. Below this, there's an 'Associated Stations' table with columns for SSID, MAC-Address, IPv4-Address, Signal, Noise, RX Rate, and TX Rate. The table currently shows 'Collecting data...'.

4 Pool Setting

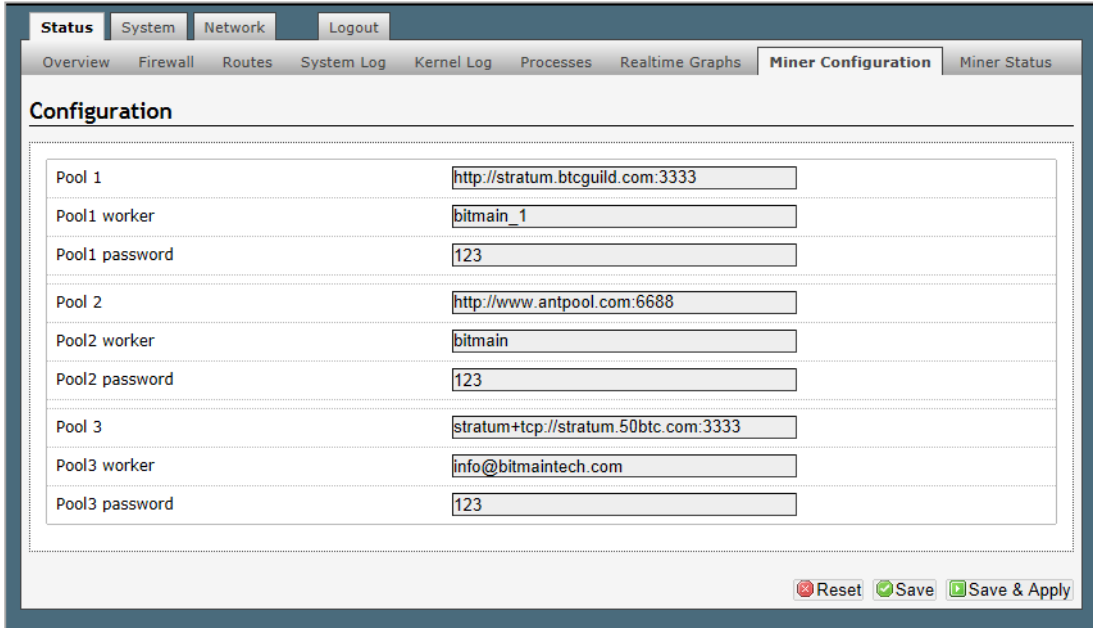
Through 'Status->Miner Configuration', you will be able to configure your miner.

Pool URL- you should enter the URL of your desired pool.

Worker- this is your worker ID on the selected pool.

Password- this is the password for your selected worker. In general password can be set casually.

Comment: AntMiner can set up three mine pools, the priority decreases from first pool (pool 1) to third pool (pool 3). **The low priority pool will start to work, only when the high priority pool encounter fault.**



The screenshot shows the 'Miner Configuration' page in the AntMiner web interface. It features a navigation bar with tabs for Status, System, Network, and Logout. Below the navigation bar are sub-tabs for Overview, Firewall, Routes, System Log, Kernel Log, Processes, Realtime Graphs, Miner Configuration, and Miner Status. The main content area is titled 'Configuration' and contains three sections for Pool 1, Pool 2, and Pool 3. Each section has input fields for Pool URL, worker name, and password. At the bottom right, there are buttons for 'Reset', 'Save', and 'Save & Apply'.

Pool	URL	Worker	Password
Pool 1	http://stratum.btcguild.com:3333	bitmain_1	123
Pool 2	http://www.antpool.com:6688	bitmain	123
Pool 3	stratum+tcp://stratum.50btc.com:3333	info@bitmaintech.com	123

5 Miner Status

Through 'Status->Miner Status', you will be able to check your miner running status.

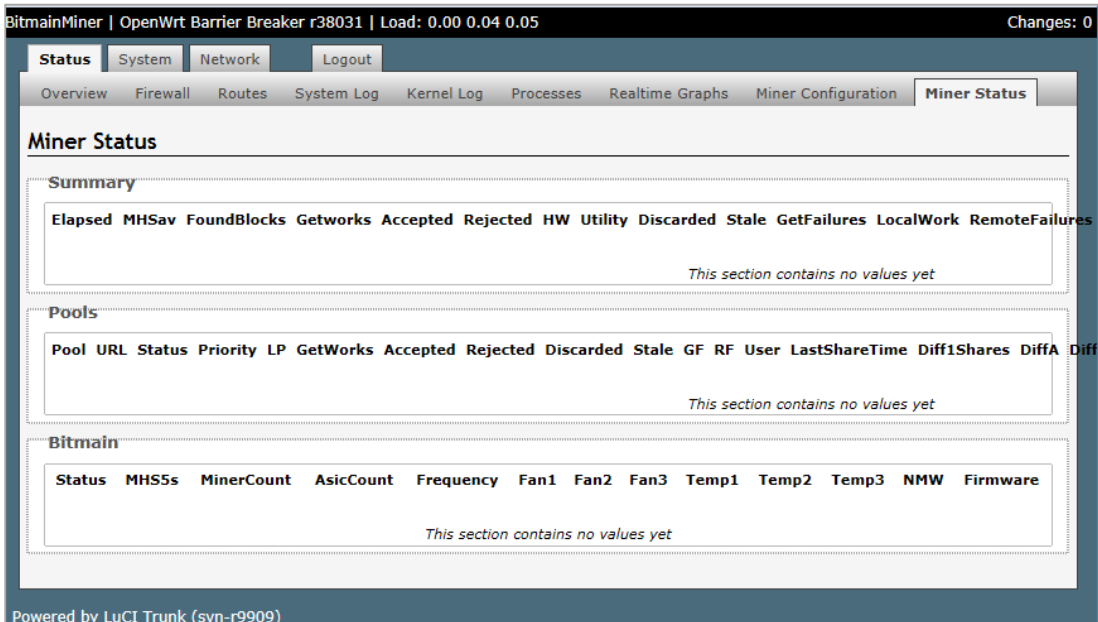
ASIC#: ASIC number in the chain

Fan: Fan speed

Temp: Temperature, centigrade

Frequency: ASIC setting frequency

ASIC status: o stands for OK, x stands for error.



The screenshot shows the 'Miner Status' page in the AntMiner web interface. It features a navigation bar with tabs for Status, System, Network, and Logout. Below the navigation bar are sub-tabs for Overview, Firewall, Routes, System Log, Kernel Log, Processes, Realtime Graphs, Miner Configuration, and Miner Status. The main content area is titled 'Miner Status' and contains three sections: Summary, Pools, and Bitmain. Each section has a table with various columns and a message indicating that the section contains no values yet.

BitmainMiner | OpenWrt Barrier Breaker r38031 | Load: 0.00 0.04 0.05 Changes: 0

Summary

Elapsed	MHSav	FoundBlocks	Getworks	Accepted	Rejected	HW	Utility	Discarded	Stale	GetFailures	LocalWork	RemoteFailures
This section contains no values yet												

Pools

Pool	URL	Status	Priority	LP	GetWorks	Accepted	Rejected	Discarded	Stale	GF	RF	User	LastShareTime	Diff1Shares	Diff2	Diff3
This section contains no values yet																

Bitmain

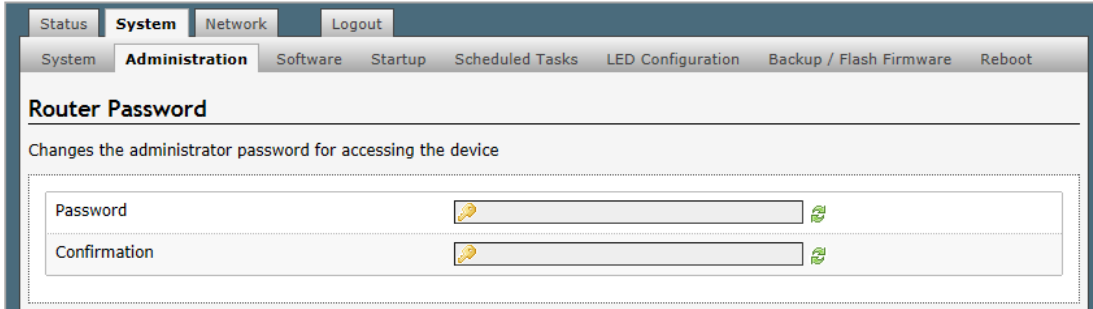
Status	MHS5s	MinerCount	AsicCount	Frequency	Fan1	Fan2	Fan3	Temp1	Temp2	Temp3	NMW	Firmware
This section contains no values yet												

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6 System Configuration

6.1 Password Modification

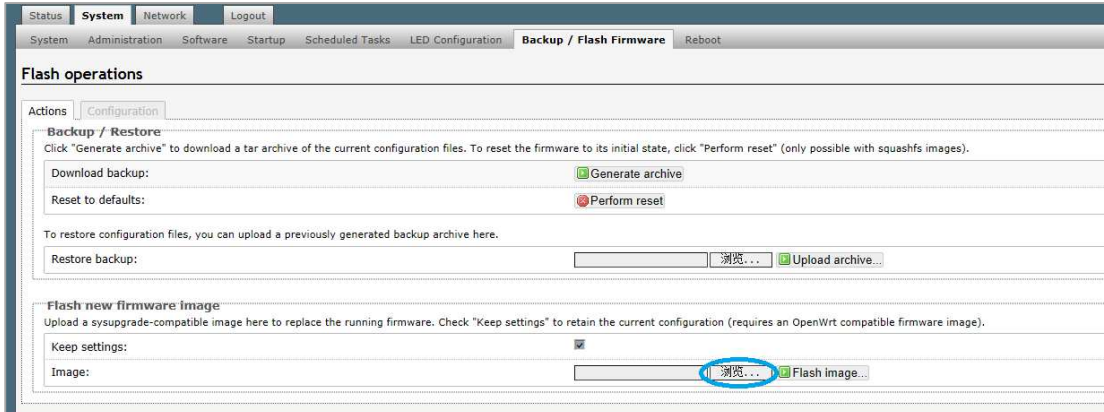
Through 'System->Administration', you will be able to modify AntMiner login password, and choose 'Save' and 'Save and Apply' after modifying it.



The screenshot shows the 'Router Password' configuration page. The page title is 'Router Password' and it includes a sub-header 'Changes the administrator password for accessing the device'. There are two input fields: 'Password' and 'Confirmation', each with a password strength indicator (a key icon and a green bar) to the right. The page is part of a navigation menu with tabs for 'System', 'Administration', 'Software', 'Startup', 'Scheduled Tasks', 'LED Configuration', 'Backup / Flash Firmware', and 'Reboot'.

6.2 System Upgrading

Through 'System->Backup / Flash Firmware' you will be able to upgrade your miner.



The screenshot shows the 'Flash operations' page under the 'Backup / Flash Firmware' section. It has two tabs: 'Actions' and 'Configuration'. The 'Backup / Restore' section contains a 'Download backup:' button with a green 'Generate archive' icon, and a 'Reset to defaults:' button with a red 'Perform reset' icon. Below this is a 'Restore backup:' section with a text input field, a '浏览...' (Browse) button, and an 'Upload archive...' button. The 'Flash new firmware image' section has a 'Keep settings:' checkbox (checked by default) and an 'Image:' section with a text input field, a '浏览...' (Browse) button (circled in blue), and a 'Flash image...' button. The page is part of a navigation menu with tabs for 'System', 'Administration', 'Software', 'Startup', 'Scheduled Tasks', 'LED Configuration', 'Backup / Flash Firmware', and 'Reboot'.

'Keep setting' is chosen by default, you should choose it if you hope to preserve the current settings. You should cancel this option if you hope to restore to initial settings.

Click 'Browse' button to choose upgrade file. After choosing upgrade file, then click 'Flash image...' button to start downloading this file to your system. After downloading, please click 'Proceed' button, then upgrade system. During the upgrade process, you need to **wait patiently, and must keep power on, otherwise, AntMiner will restore to initial settings**. AntMiner will be connected to login interface after finishing system upgrade.