

BITMAIN

S3 Server Manual

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1 Overview

S3 Server is the third generation Bitcoin Mining Rig, which uses the state of the art BM1382 chip powered by the 28nm tech process with ultra-low power consumption, has been assembled before Fab out.

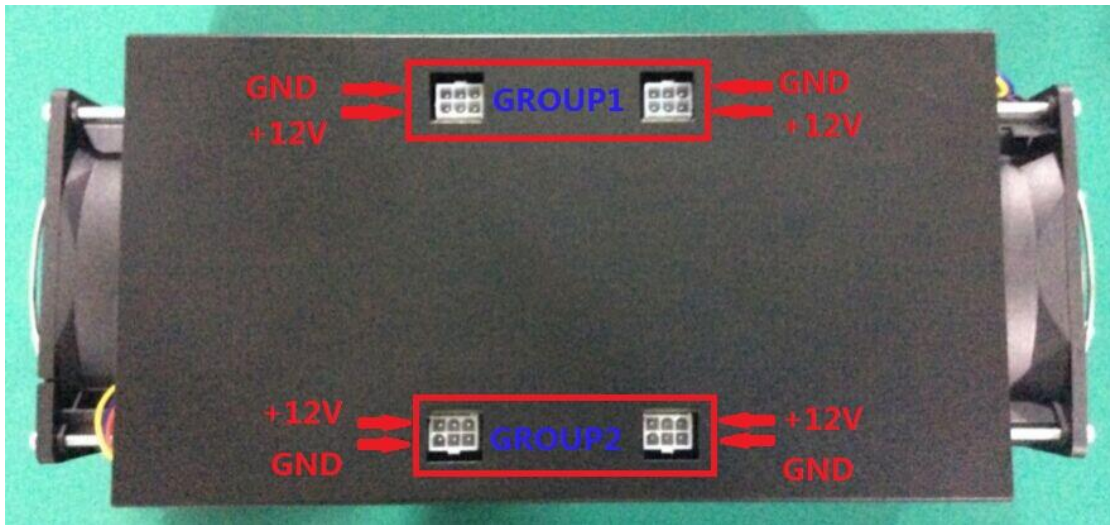


Notice:

- 1. You should prepare your own ATX Power Supply.**
- 2. WIFI antenna not Included.**

2 Power Supply

One server contains four power sockets, which are formed into two groups as below. Only two sockets are enough to support one unit, but one of the two sockets of each group must be connected to 12V Power line. Note not to reverse positive (+12V) to negative (GND).



3 Connect to Server

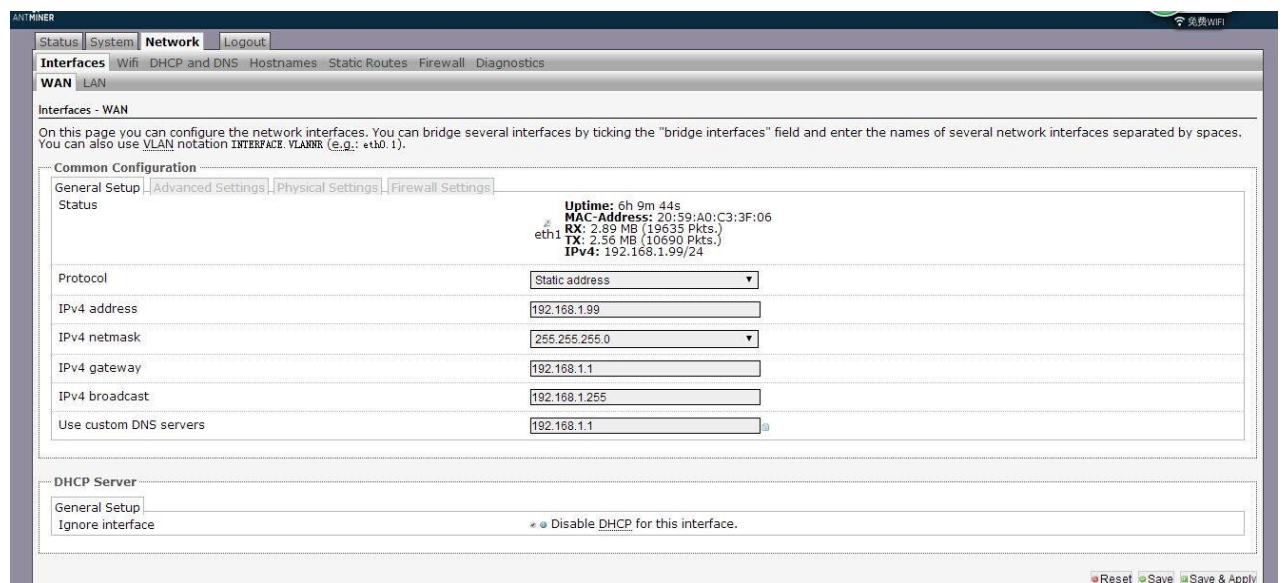
3.1 WAN setting

Step 1. Connect server and your PC via Ethernet network cable.

Step 2. Enter server's IP address: 192.168.1.99 into your web browser, then login server Management interface, both of username and password are 'root' by default.

Step 3. Modify the IP address of the WAN interface. Click "Network->Interfaces->WAN" to modify the IP address of WAN in the following page.

***** If you decide to change the server's IP address, Please Write It Down & DO NOT FORGET it. If you forget the IP address, you will not be able to access the server again. *****



ANTMINER

Status System **Network** Logout

Interfaces Wifi DHCP and DNS Hostnames Static Routes Firewall Diagnostics

WAN LAN

Interfaces - WAN

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.VLANID (e.g.: eth0.1).

Common Configuration

General Setup | Advanced Settings | Physical Settings | Firewall Settings

Status

Uptime: 6h 9m 44s
 MAC Address: 20:59:A0:C3:3F:06
 eth1 RX: 2.89 MB (19635 Pkts.)
 TX: 2.56 MB (10690 Pkts.)
 IPv4: 192.168.1.99/24

Protocol: Static address

IPv4 address: 192.168.1.99

IPv4 netmask: 255.255.255.0

IPv4 gateway: 192.168.1.1

IPv4 broadcast: 192.168.1.255

Use custom DNS servers: 192.168.1.1

DHCP Server

General Setup

Ignore interface Disable DHCP for this interface.

Reset Save Save & Apply

4 Pool Setting

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

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:

*The server can be set up with three mining pools, the priority decreases from first pool (pool 1) to third pool (pool 3). There are three Pool Balance option:

Failover: Automatic backup when server faults; 'Failover' is by default. **The low priority pool will start to work, only when the high priority pool encounter fault.**

Balance: Change multipool strategy from failover to even share balance.

Load Balance: Change multipool strategy from failover to quota based balance.

*Beeper ringing option

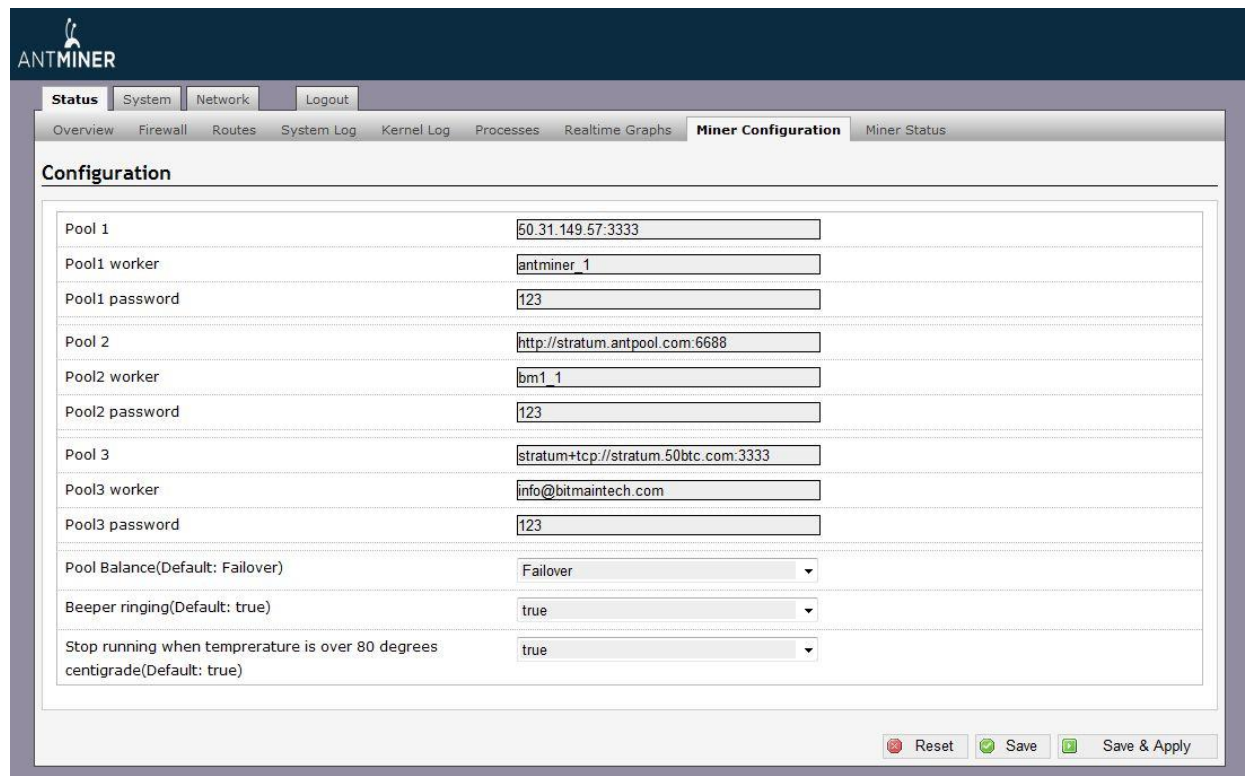
True: Beeper is to alert once the server stops mining. 'True' is by default.

False: Beeper won't alert, even if the server stops mining.

*Stop running when temperature is over 80 degrees centigrade option

True: Server does not work if the temperature is over 80 degrees centigrade to protect the server. 'True' is by default.

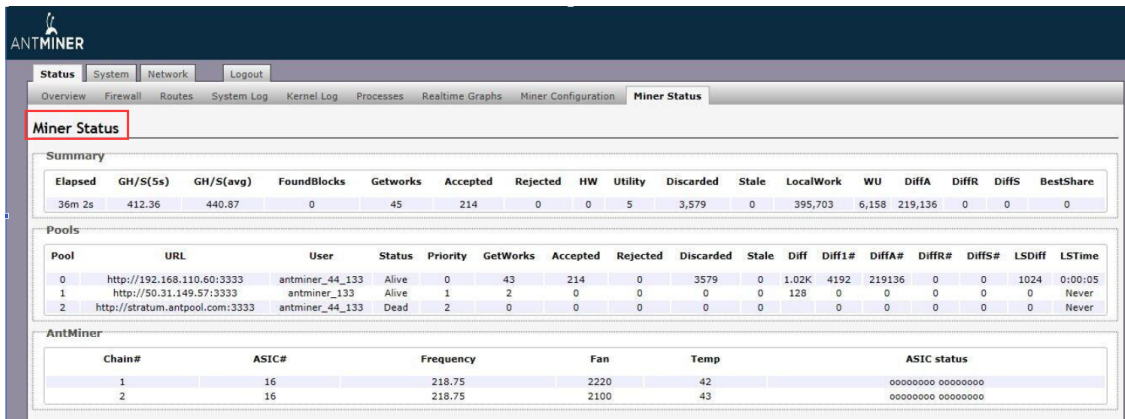
False: Server continues mining even in high temperature.



5 Server Status

5.1 Server Status web page

Click the status marked below, you will be able to check your server running status.



The screenshot shows the AntMiner web interface. The 'Miner Status' tab is highlighted with a red box. Below the navigation tabs, there are three main sections:

- Summary:** A table with columns: Elapsed, GH/S(5s), GH/S(avg), FoundBlocks, Getworks, Accepted, Rejected, HW, Utility, Discarded, Stale, LocalWork, WU, DiffA, DiffR, DiffS, BestShare. Values: 36m 2s, 412.36, 440.87, 0, 45, 214, 0, 0, 5, 3,579, 0, 395,703, 6,158, 219,136, 0, 0, 0.
- Pools:** A table with columns: Pool, URL, User, Status, Priority, GetWorks, Accepted, Rejected, Discarded, Stale, Diff, Diff1#, DiffA#, DiffR#, DiffS#, LSDiff, LSTime. It lists three pools with their respective URLs and statuses (Alive, Alive, Dead).
- AntMiner:** A table with columns: Chain#, ASIC#, Frequency, Fan, Temp, ASIC status. It shows two ASICs with their chain numbers, frequencies, fan speeds, and temperatures.

ASIC#: The number of ASIC in the chain

Fan: Fan speed

Temp: Temperature, centigrade

Frequency: ASIC setting frequency

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

5.2 LED status during boot procedure

1. When power on, Red LED flashes on and off, Green LED is off, the LEDs (Yellow LED and Green LED) for Ethernet interface are off.
2. When upgrading, the Red LED flashes on and off quick, and changes to be on after finishing upgrade. If the server doesn't upgrade the firmware, Red LED flashes on one time then into STANDBY Mode.
3. LEDs (Yellow LED and Green LED) for Ethernet interface, Yellow LED is on, Green LED flashes on and off.
4. Start to mine, Red LED is off, Green LED flashes quick.
5. Stop mining, server switches to STANDBY Mode.

5.3 Fault Indication: Beeper and LED status

1. Beeper rings by default when server faults. You are able to configure if beeper ring alarm through 'Status-> Configuration'. You are also able to configure if the server is continuing mining when the ambient temperature is higher than 80 degrees centigrade on

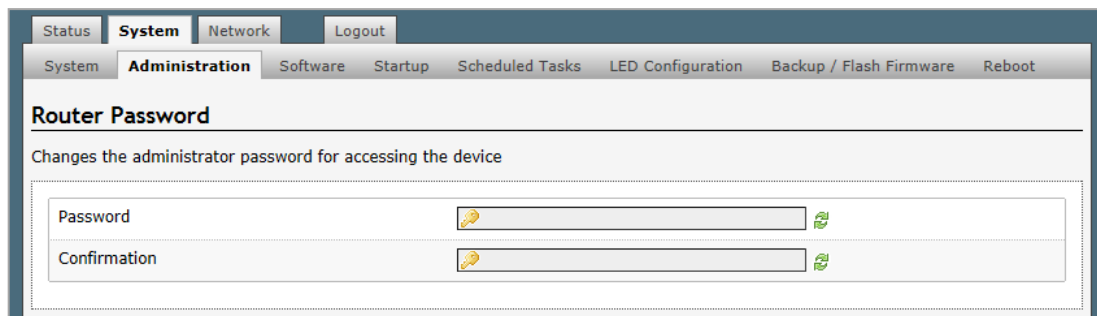
the same page.

2. Server runs normally, Green LED flashes quickly. Server is in the STANDBY Mode, Green LED flashes every 1 second. Green LED flashes every 1 second and Beeper rings if the Ethernet network breaks.
3. Server runs normally, Red LED is off. When the ambient temperature is higher than 80 degrees centigrade, and one fan only is spinning, the Red LED flashes every 1 second; When the ambient temperature is higher than 80 degrees centigrade, and all fans do not spin up, the Red LED is on, beeper rings; Two fans do not spin up only, the Red LED is on.

6 System Configuration

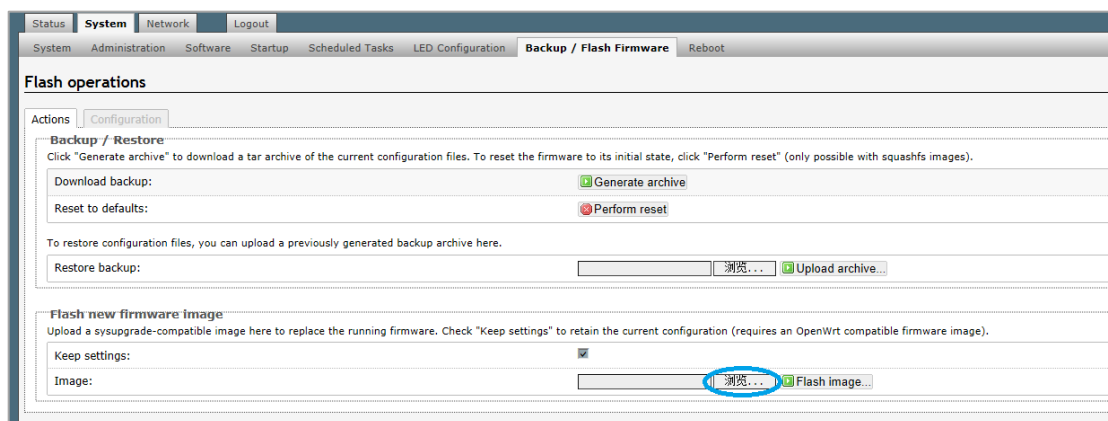
6.1 Password Modification

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



6.2 System Upgrade

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



'Keep settings' 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 to download 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, the server will restore to initial settings**. The server will be connected to login interface after finishing system upgrade.

Regulation:

FCC Notice (FOR FCC CERTIFIED MODELS):

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

EU WEEE: Disposal of Waste Equipment by Users in Private Household in the European Union



This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information

about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

台湾 ROHS:

設備名稱: _____, 型號: _____						
單元	有害物質					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr+6)	多溴聯苯 (PBB)	多溴二苯 醚 (PBDE)
外殼	○	○	○	○	○	○
電路板組 件	—	○	○	○	○	○
其他線材	—	○	○	○	○	○
備考 1. “超出 0.1 wt %” 及 “超出 0.01 wt %” 係指限用物質之百分比含量超出百分比含量 基準 值。 備考 2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。 備考 3. “—” 係指該項限用物質為排除項目						