

BITMAIN CAYMAN

# 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.

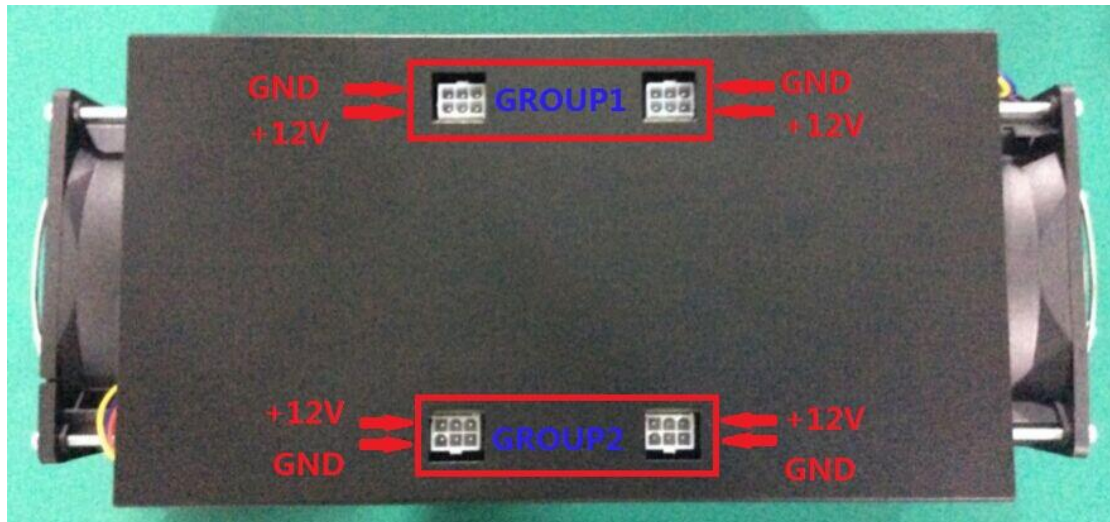


**Notice:**

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

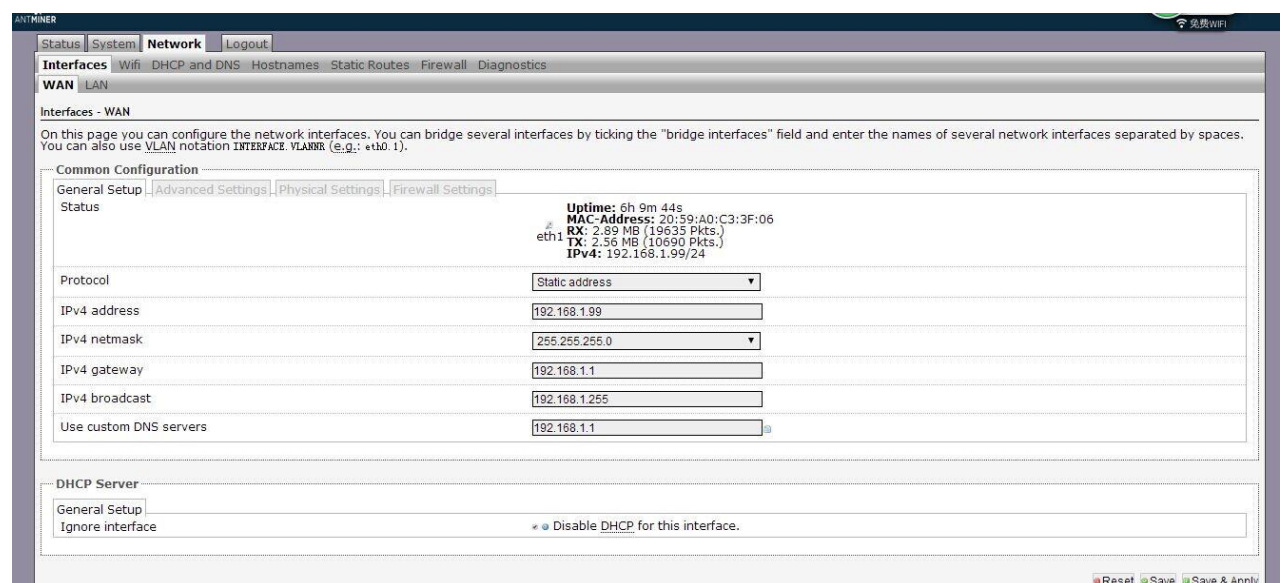
Step 1. Connect server and your PC via Ethernet network cable.

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. \*\*\***



## 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

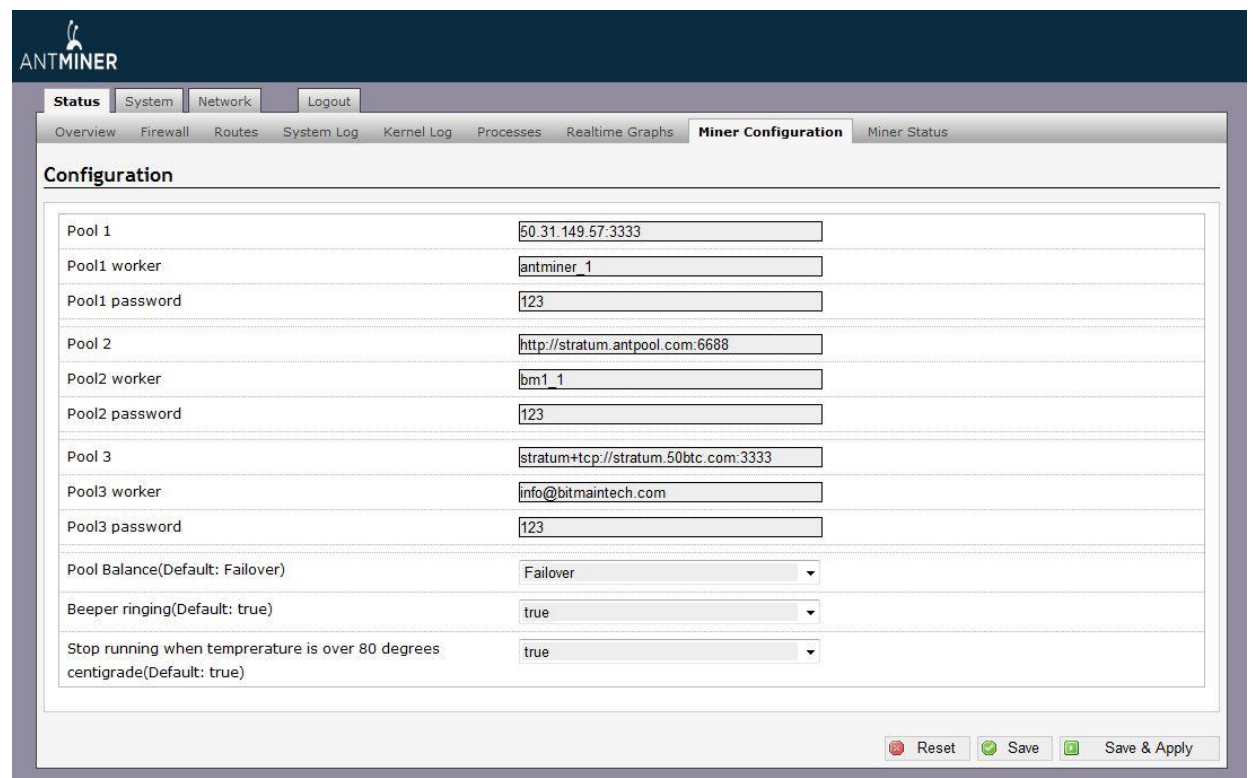
True: Beeper is to alert once the server stops mining. 'True' is by default.

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.



Configuration	
Pool 1	50.31.149.57:3333
Pool1 worker	antminer_1
Pool1 password	123
Pool 2	http://stratum.antpool.com:6688
Pool2 worker	bm1_1
Pool2 password	123
Pool 3	stratum+tcp://stratum.50btc.com:3333
Pool3 worker	info@bitmaintech.com
Pool3 password	123
Pool Balance(Default: Failover)	Failover
Beeper ringing(Default: true)	true
Stop running when temperature is over 80 degrees centigrade(Default: true)	true

Reset Save Save & Apply

## 5 Server Status

### 5.1 Server Status web page

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

StatusSystemNetworkLogout

Overview

Firewall

Routes

System Log

Kernel Log

Processes

Realtime Graphs

Miner Configuration

Miner Status

Miner Status

Summary

Elapsed	GH/S(5s)	GH/S(avg)	FoundBlocks	Getworks	Accepted	Rejected	HW	Utility	Discarded	Stale	LocalWork	WU	DiffA	DiffR	DiffS	BestShare
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

Pool	URL	User	Status	Priority	GetWorks	Accepted	Rejected	Discarded	Stale	Diff	Diff1#	DiffA#	DiffR#	DiffS#	LSDiff	LSTime
0	http://192.168.110.60:3333	antminer_44_133	Alive	0	43	214	0	3579	0	1.02K	4192	219136	0	0	1024	0:00:05
1	http://50.31.149.57:3333	antminer_133	Alive	1	2	0	0	0	0	128	0	0	0	0	0	Never
2	http://stratum.antpool.com:3333	antminer_44_133	Dead	2	0	0	0	0	0	0	0	0	0	0	0	Never

AntMiner

Chain#	ASIC#	Frequency	Fan	Temp	ASIC status
1	16	218.75	2220	42	oooooooooooooooo
2	16	218.75	2100	43	oooooooooooooooo

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

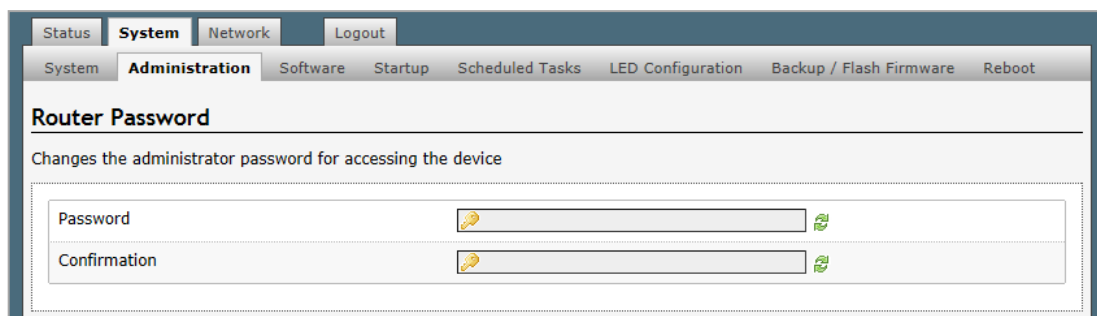
the same page.

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

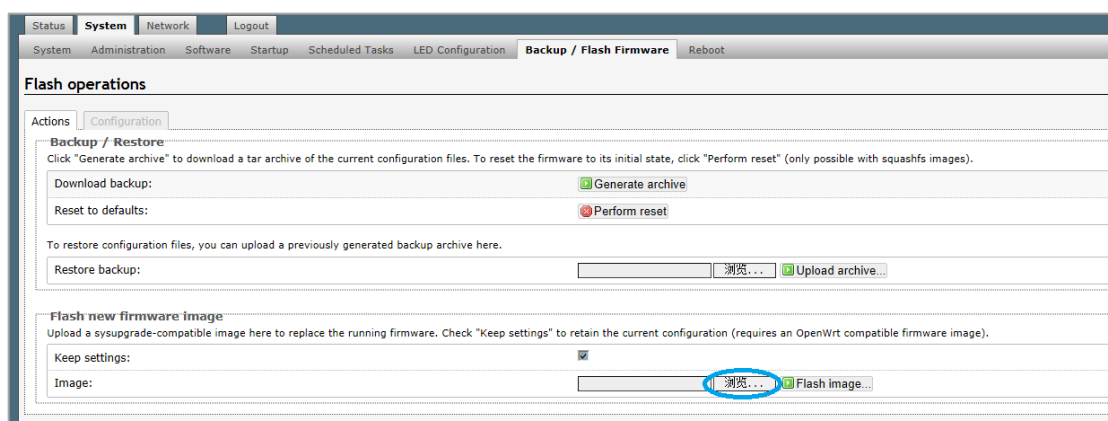
Through 'System->Administration', you will be able to modify the server login password, and choose 'Save' and 'Save and Apply' after modifying it.



The screenshot shows the 'Router Password' page under the 'Administration' tab. It contains two input fields: 'Password' and 'Confirmation', each with a yellow key icon and a green refresh icon. The page title is 'Router Password' and the subtitle is 'Changes the administrator password for accessing the device'.

### 6.2 System Upgrade

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



The screenshot shows the 'Flash operations' page under the 'Backup / Flash Firmware' tab. It has two main sections: 'Backup / Restore' and 'Flash new firmware image'. The 'Backup / Restore' section includes buttons for 'Generate archive', 'Perform reset', and 'Upload archive'. The 'Flash new firmware image' section includes a 'Keep settings' checkbox (checked by default) and a 'Flash image...' button. The 'Flash image...' button is circled in blue.

'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.

## 台灣 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	—	○	○	○	○	○
<p>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。</p> <p>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。</p> <p>備考 3. “—” 係指該項限用物質為排除項目</p>						