

BITMAIN

AntMiner S4 Manual

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1 Overview

The AntMiner S4 is a chassis style 2TH/s bitcoin miner with PSU. It has been assembled before Fab out.



PSU inside: 1400W, 80PLUS gold, C14 input socket. Power line not included. You may look for one line with no less than 16A in your local market.

LCD screen: Here shows IP address, Hashrate, Max temperature. There are also status LEDs, reset button and beep on the screen.

Casing size: 3U Rack, 432mm*442mm*133mm.

2 Connect to Miner

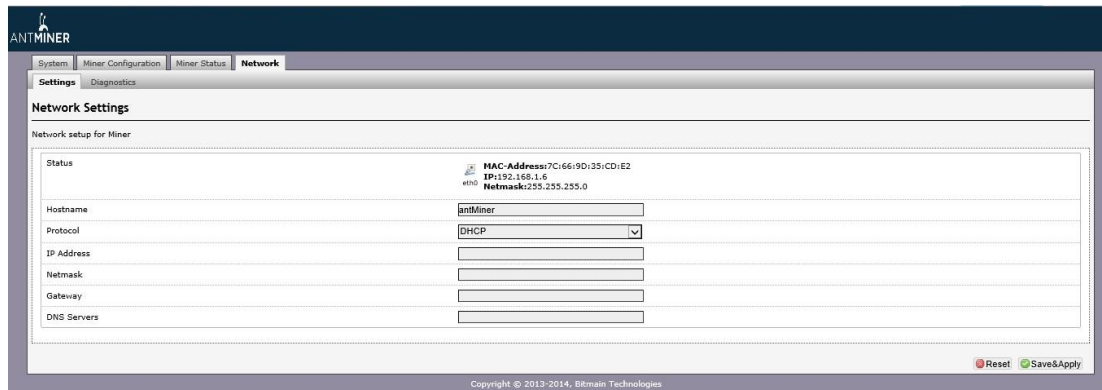
Step 1. The default DHCP network protocol distributes IP addresses automatically.

After you have your miner hooked up, you will see the IP address on the LCD display.

Step 2. Connect your miner to the PC with network cable.

Step 3. Enter miner's IP address into your web browser, then login in to the miner console. The default username and password for S4 is 'root'.

Through 'Network', you will be able to modify AntMiner IP address, and choose 'Save and Apply' after modifying it.



3 Miner Configuration

3.1 Pool Setting

You can configure your miner through 'Miner Configuration->General Settings'.

Pool URL- In this column 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.

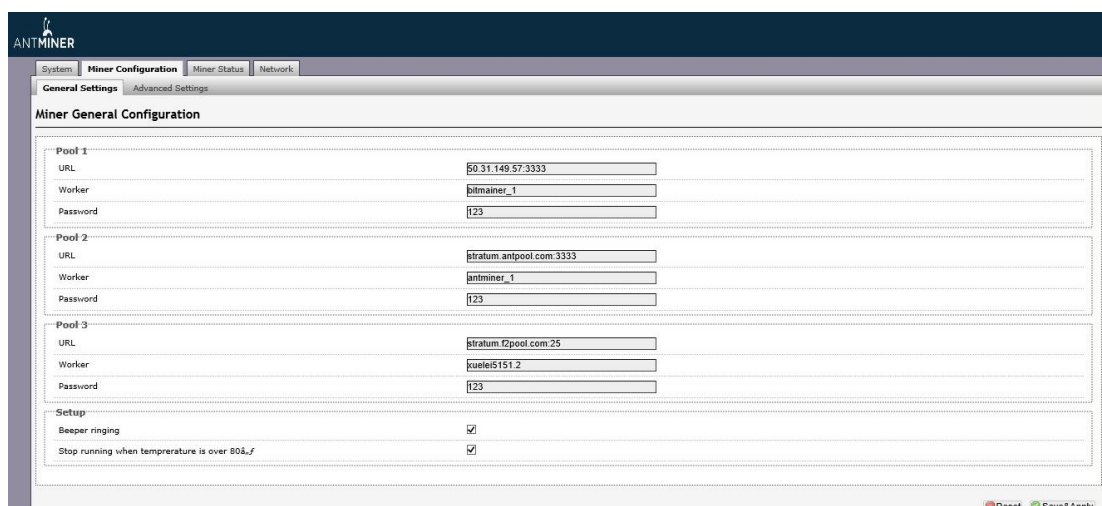
Comment:

3.1.1 AntMiner can be set up three mining pools, the priority decreases from first pool (pool 1) to third pool (pool 3). **The pool with low priority will start to work only when the high priority pool breaks down.**

3.1.2 With 'Beeper ringing' checked, beeper will ring when the miner stops mining, otherwise it won't ring even if the miner stops mining.

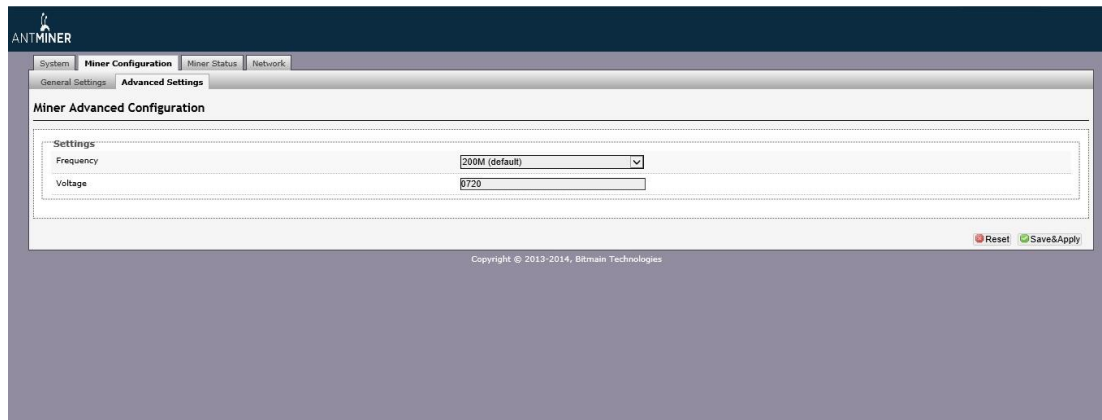
3.1.3 With 'Stop running when temperature is over 80°C' checked, the miner will stop mining when the temperature exceeds 80°C to protect the miner. If it's unchecked, the miner will still mine even in high temperature.

Click 'Save & Apply' to save and restart miner.



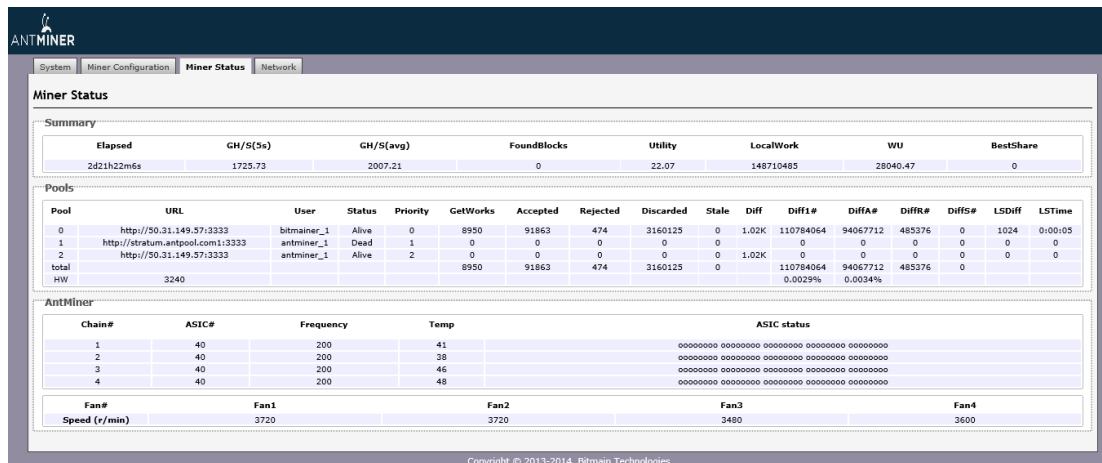
3.2 Frequency Modification

You are able to modify the frequency value through 'Miner Configuration->Advanced Settings'. E.g.: Voltage '0720' means operating voltage of chip is 0.72V. Voltage needs to be modified when adjusting the frequency.



4 Miner Status

Through 'Miner Status', you can check the operating status of your miner.



Miner Status Summary

Elapsed	GH/S(5s)	GH/S(avg)	FoundBlocks	Utility	LocalWork	WU	BestShare
2d21h22m6s	1725.73	2007.21	0	22.07	148710485	28040.47	0

Pools

Pool	URL	User	Status	Priority	GetWorks	Accepted	Rejected	Discarded	Stale	Diff	Diff1#	Diff#	DiffR#	DiffS#	LSDiff	LSTime
0	http://50.31.149.57:3333	bitmainer_1	Alive	0	8950	91863	474	3160125	0	1.02K	110784064	94067712	485376	0	1024	0:00:05
1	http://stratum.antpool.com:13333	antminer_1	Dead	1	0	0	0	0	0	0	0	0	0	0	0	0
2	http://80.31.149.57:3333	antminer_1	Alive	2	0	0	0	0	0	1.02K	0	0	0	0	0	0
total					8950	91863	474	3160125	0		110784064	94067712	485376	0		
HW	3240										0.0029%	0.0034%				

AntMiner ASIC Status

Chain#	ASIC#	Frequency	Temp	ASIC status
1	40	200	41	oo
2	40	200	38	oo
3	40	200	46	oo
4	40	200	48	oo

Fan Status

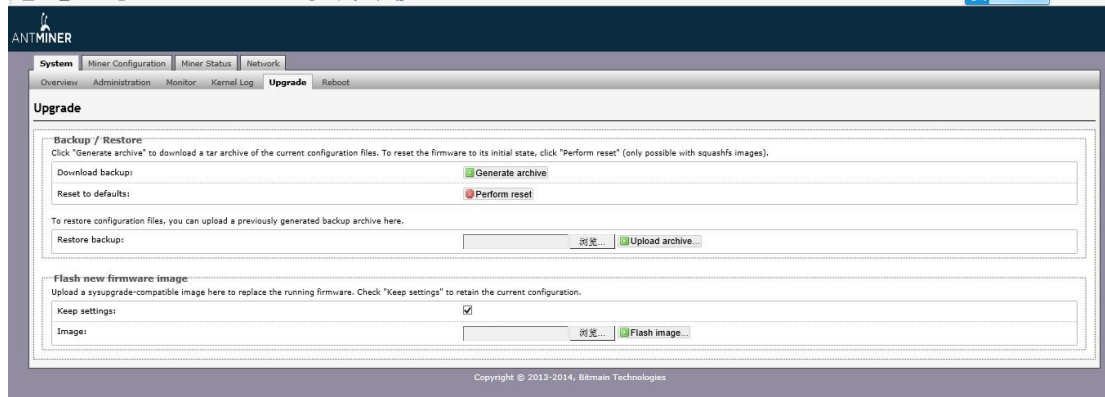
Fan#	Fan1	Fan2	Fan3	Fan4
Speed (r/min)	3720	3720	3480	3600

- ASIC#: ASIC number in the chain
- Frequency: ASIC setting frequency
- Temp: Temperature, centigrade
- ASIC status: o stands for OK, x stands for error.

5 System Configuration and status

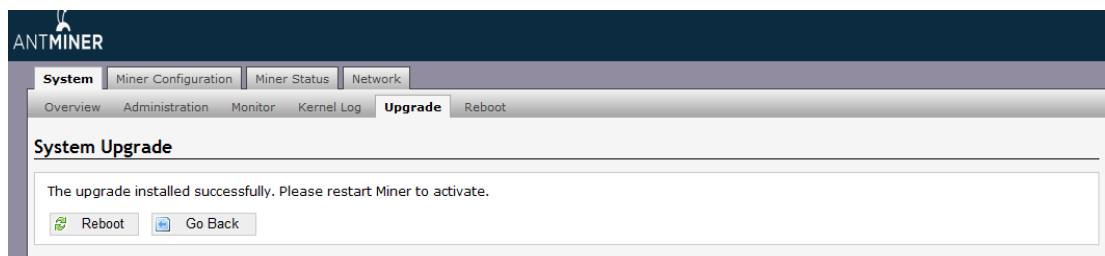
5.1 System Upgrading

Through 'System->Upgrade', you will be able to upgrade your miner.



'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, it will remind if upgrading software, start to download software after choosing upgrading software. During the upgrade process, you need to **wait patiently, and must keep power on, otherwise, AntMiner should be shipped to factory to restore**. You will see bellow screenshot after upgrading successfully.



Choose 'Reboot' button, Miner will restart and run the new system. Choose 'Go Back', Miner will continue running the old system, will run new system when power on next time.

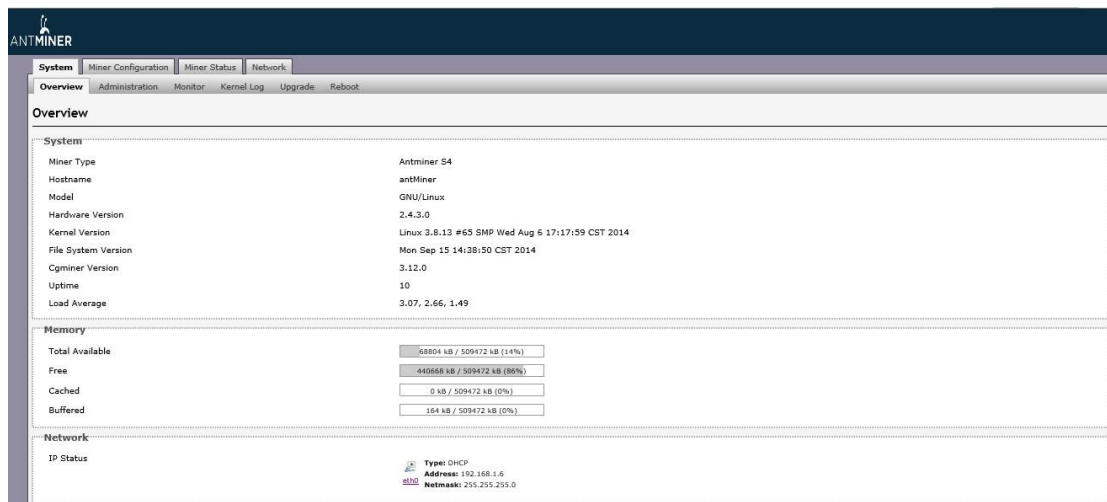
5.2 Password Modification

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



5.3 Software Version Checking

Through 'System->Overview', you will be able to check the software version you used. After upgrading the software, to check if you are using the latest version of software via 'File System Version'.



5.4 Restore Initial Setting

Press the 'Reset' button on the left bottom of LCD screen and hold on for 3 seconds, red led flashing every one second/1S. Release 'Reset' button, Miner will restore the initial setting and restart automatically.