

BITMAIN

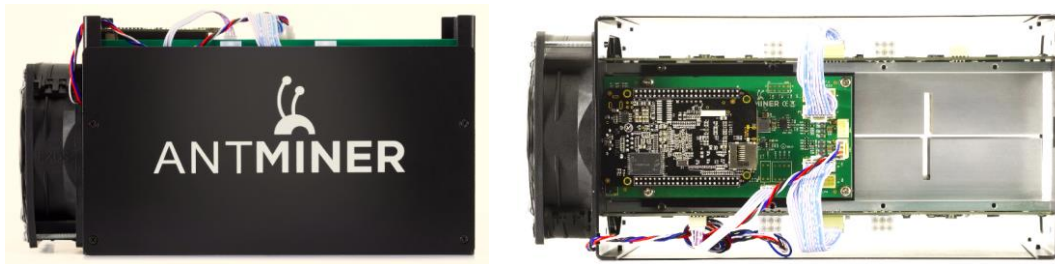
AntMiner S5 Manual

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1 Overview

The AntMiner S5 is Bitmain's 5th generation of Bitcoin mining rig and uses the state of the art BM1384 chip powered by ultra-low power 28nm technology. S5's are tested and configured prior to shipping to make it easier for customers to set up.



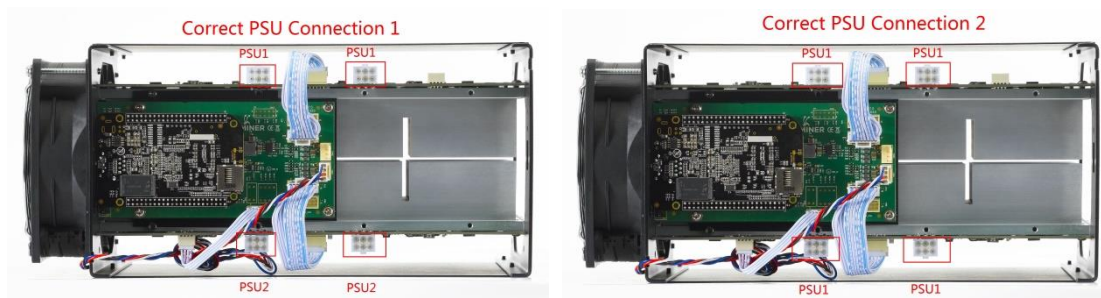
Please note:

1. You must provide your own ATX Power Supply

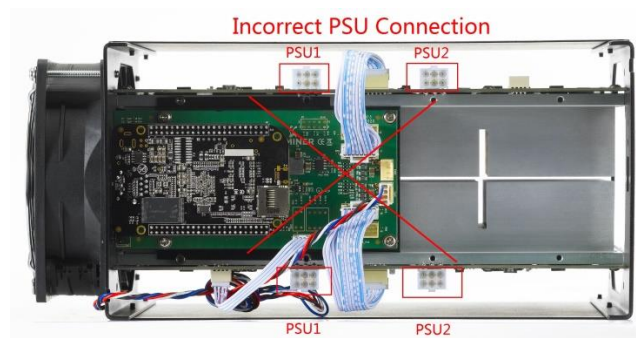
2 Power Supply

Each AntMiner S5 has four PCI-e connectors for +12V/15A DC STABLE input and all four are required. **Do not connect more than one PSU to the same hashing board to prevent possible damage and instability.** See the below screenshots for the CORRECT and INCORRECT arrangement of the PCI-E connectors:

Correct connection:



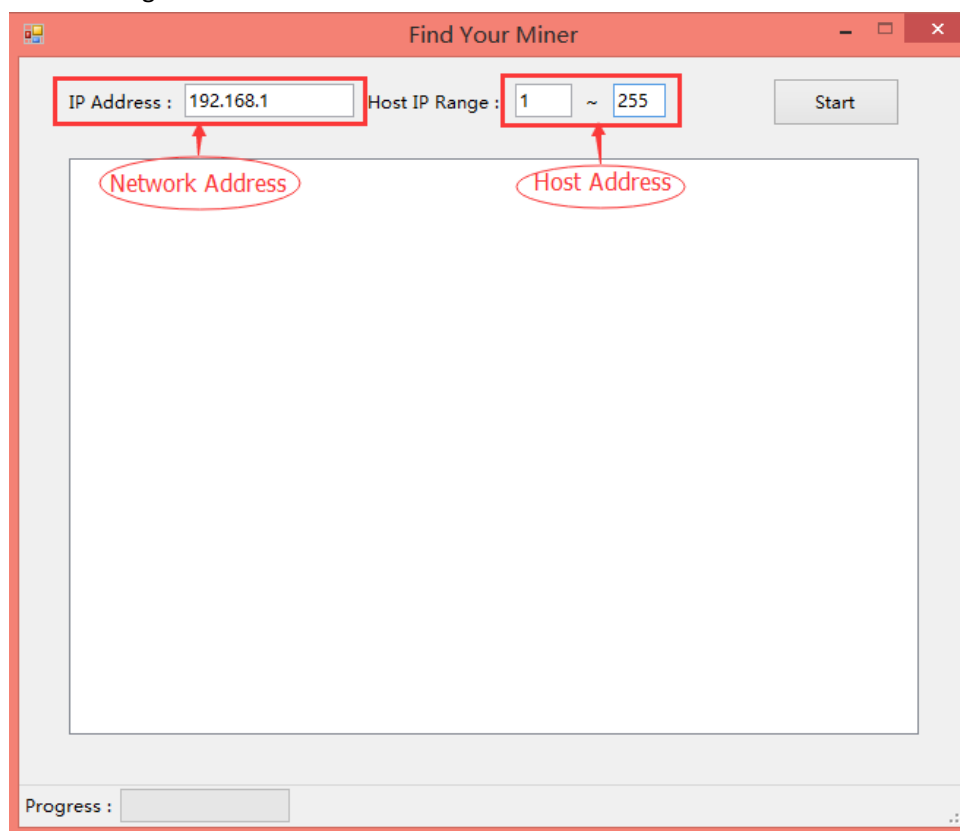
Incorrect connection:



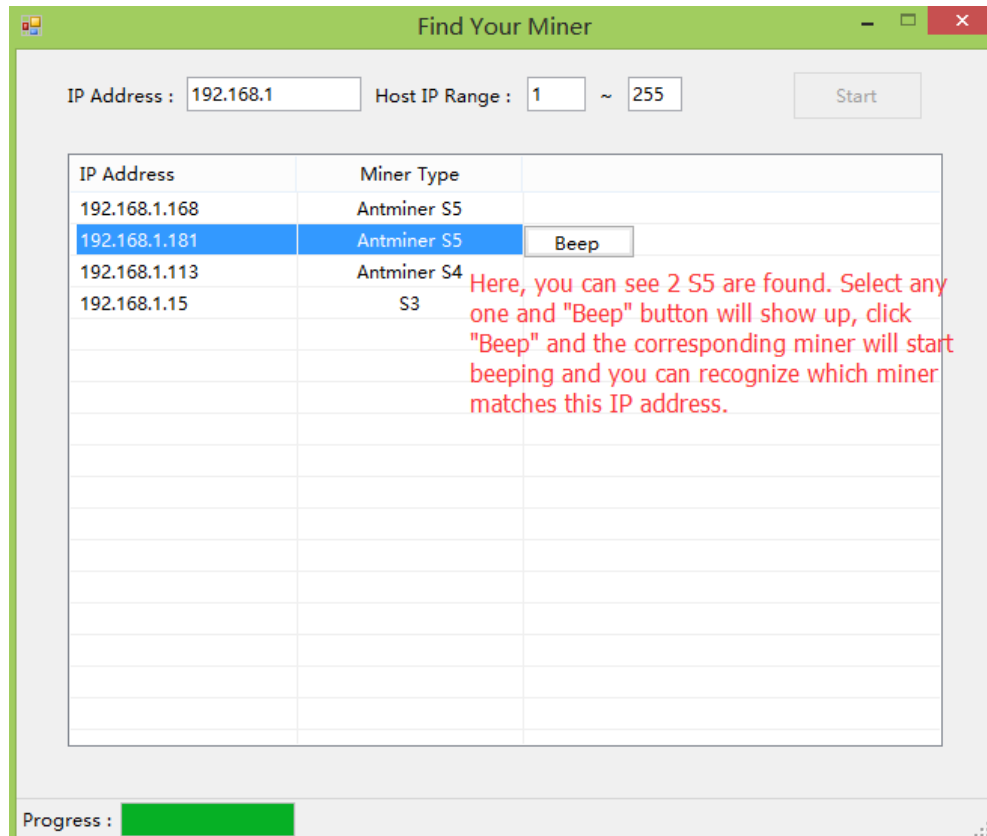
3 Connecting to the Miner

Step 1. Connect the AntMiner S5 to your router with a network cable. DHCP is enabled by default, which means your S5 will automatically be provided an IP address by the router. If you know how to find the IP address assigned by the router, you can skip ahead to step 2. Please download **tool FindYourMiner** from www.minerlink.com. The following steps explain how to use the tool to find the IP of your miners. After extract the files, please follow below steps to find out the IP of the miner.

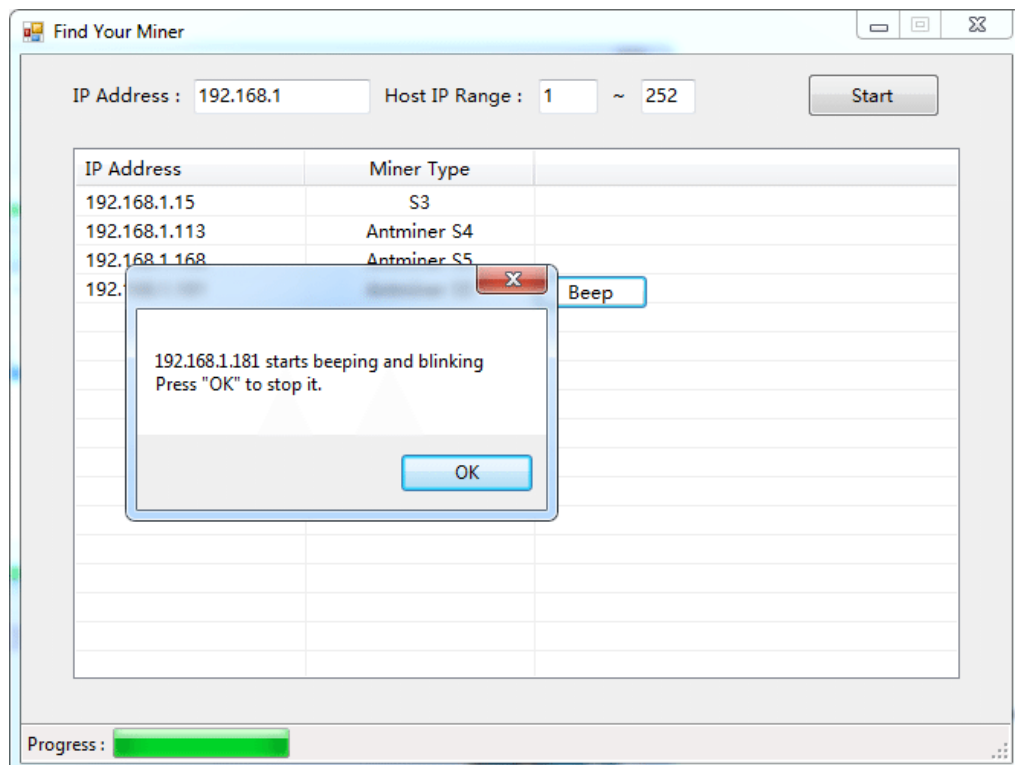
- a. Once the files are extracted from the .rar, double click “FoundYourMiner.exe” to launch the program. You will see the below interface. Enter your network address and the host address range as in screenshot and click “Start”.



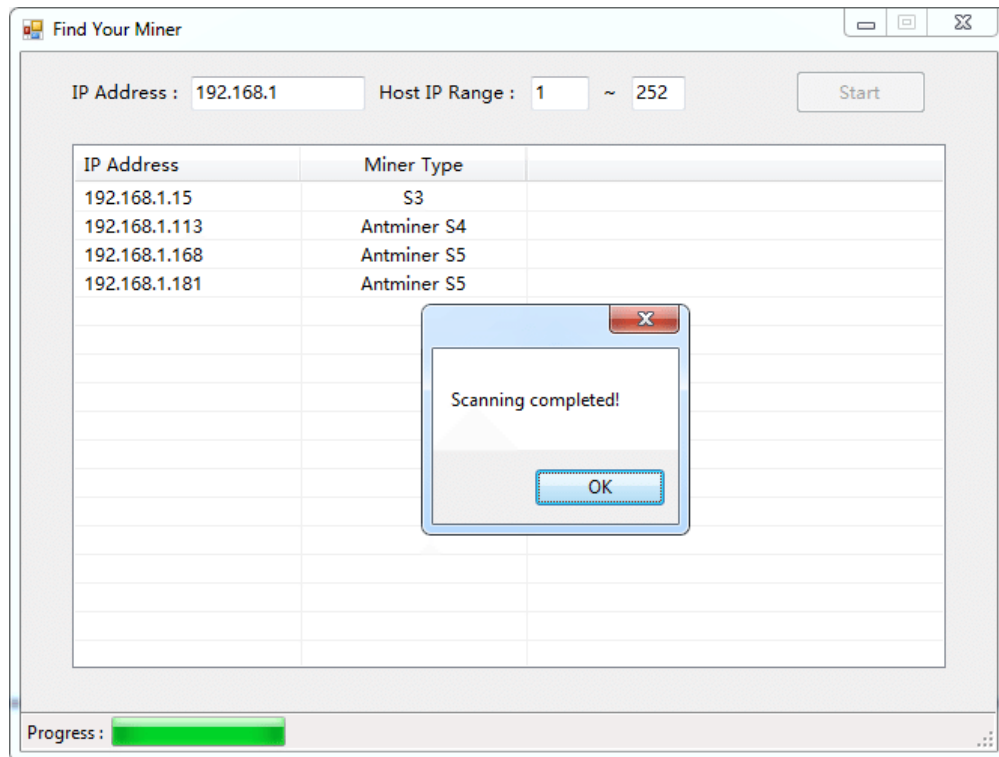
- b. After clicking “Start”, the software will begin looking for miners. Once “AntMiner S5” appears, write down the corresponding IP address to login to the miner via your browser. When a miner is selected the “Beep” button will show up. Clicking “Beep” makes the selected miner beep so you can locate it.



- c. After clicking "Beep", a small alert window pops up. Clicking "OK" will stop the miner beeping.

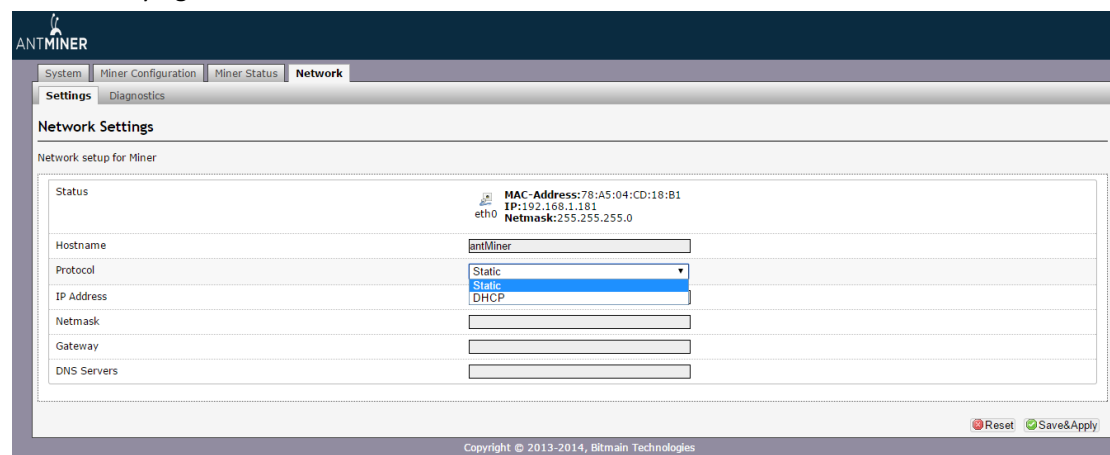


- d. Another popup will appear when the scanning process has finished. Click "OK" to continue.



Step 2. Enter the IP address you wrote down into your WEB browser and proceed to login using 'root' for both the username and password.

In the 'Network' section, you can assign a "Static" IP address if you wish. Click 'Save and Apply' after modifying it.



4 Miner Configuration

4.1 Pool Setting

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

Pool URL- Enter the URL of your designed pool in this column.

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

Password- This is the password for your selected worker.

Comment:

4.1.1 The AntMiner S5 can be set up on three mining pools, with decreasing priority from the first pool (pool 1) to third the pool (pool 3). **The pools with low priority will only be used if all higher priority pools have gone offline.**

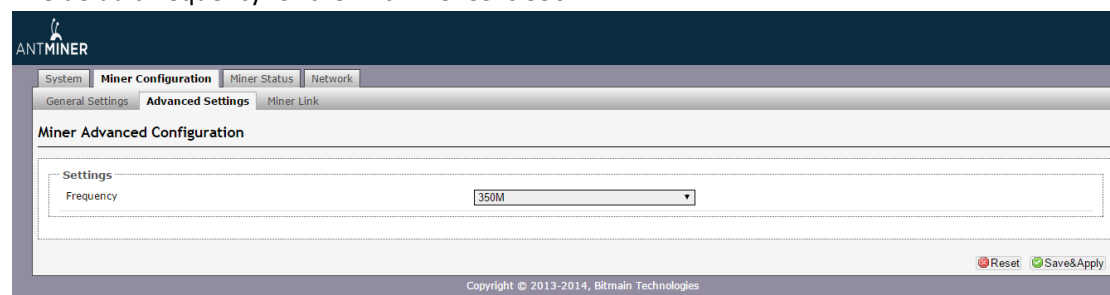
4.1.2 When 'Beeper ringing' is checked, a beeper will sound when the miner stops mining, otherwise it won't ring even if the miner stops mining.

4.1.3 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.

4.2 Frequency Modification

You are able to modify the frequency value through 'Miner Configuration->Advanced Settings'. The default frequency for the AntMiner S5 is 350M.



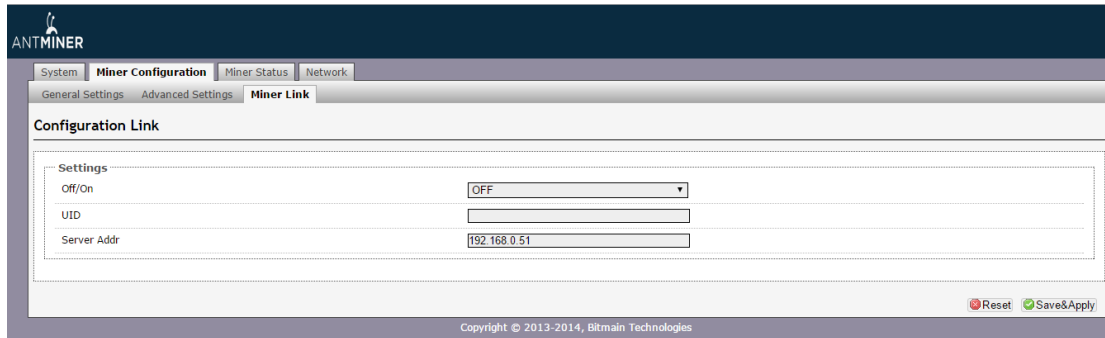
4.3 Miner Link Connection

4.3.1 Go to the "Miner Configuration" tab, and the "Miner Link" tab in order to configure the relevant settings.

4.3.2 You can enable or disable Miner Link using the Off/On drop-down list provided. You can fill in your Bitmain username (your passport email registered on Bitmain platform) in the UID blank. (Register here if you do not yet have an account: <http://passport.bitmain.com>)

4.3.3 After filling in your Bitmain username and enabling Miner Link, click "Save&Apply" tab. The software will take approximately 10 seconds to connect to the server, and then the client software continue to run after settings are saved. If either the Off/On is selected to "Off" or the UID is left blank, Miner Link will remain disabled.

4.3.4 Once "Miner Link" is enabled, the "Server Addr" will become fixed and cannot be updated by customers. This refers to Bitmain's monitoring server address.



5 Miner Status

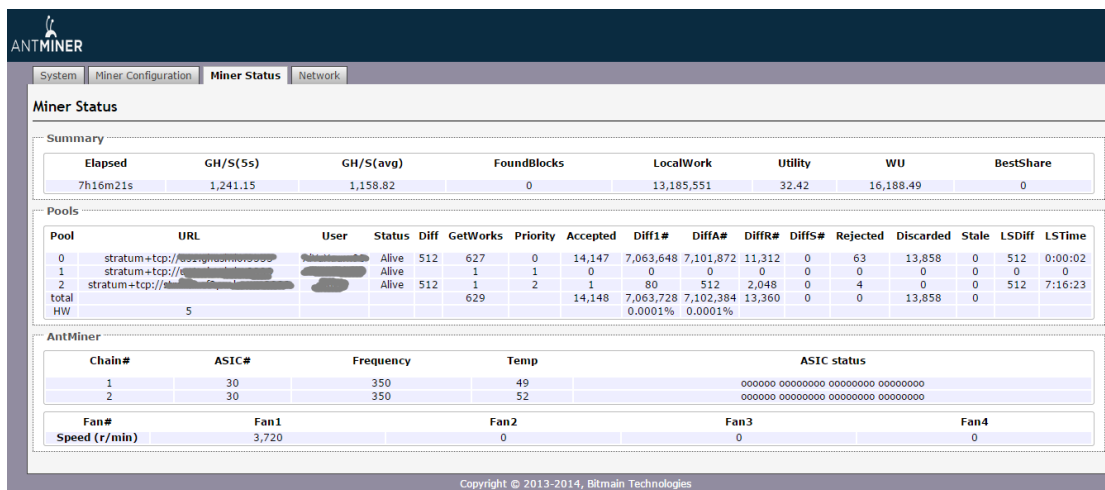
You can check the operating status of your miner on the 'Miner Status' page.

ASIC#: Number of chips detected in the chain

Frequency: ASIC frequency setting

Temp: Temperature, centigrade

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



Summary									
Elapsed	GH/S(5s)	GH/S(avg)	FoundBlocks	LocalWork	Utility	WU	BestShare		
7h16m21s	1,241.15	1,158.82	0	13,185,551	32.42	16,188.49	0		

Pools																
Pool	URL	User	Status	Diff	GetWorks	Priority	Accepted	Diff1#	DiffA#	DiffR#	DiffS#	Rejected	Discarded	Stale	LSDiff	LSTime
0	stratum+tcp://192.168.0.51:3333		Alive	512	627	0	14,147	7,063,648	7,101,872	11,312	0	63	13,858	0	512	0:00:02
1	stratum+tcp://192.168.0.51:3333		Alive	512	1	1	0	0	0	0	0	0	0	0	0	0
2	stratum+tcp://192.168.0.51:3333		Alive	512	1	2	1	80	512	2,048	0	4	0	0	512	7:16:23
total					629		14,148	7,063,728	7,102,384	13,360	0	0	13,858	0		
HW	5							0.0001%	0.0001%							

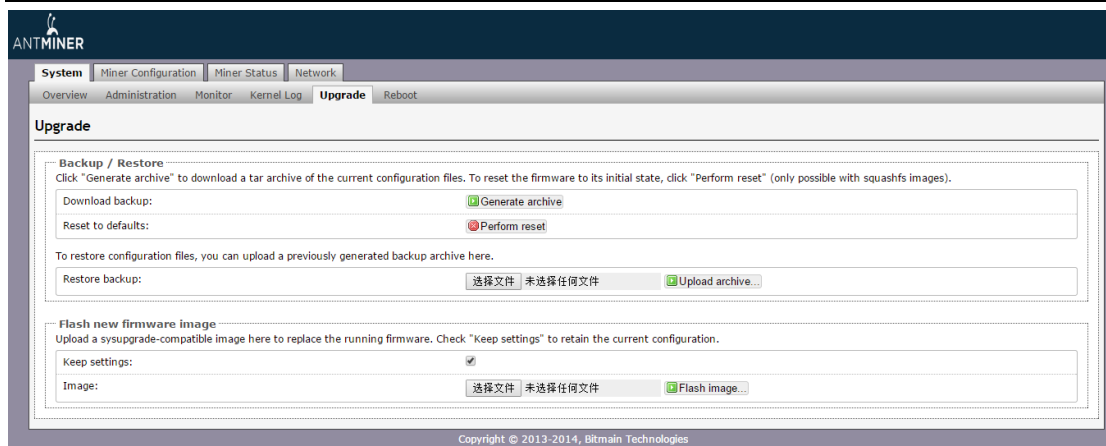
AntMiner					
Chain#	ASIC#	Frequency	Temp	ASIC status	
1	30	350	49	oooooooooooooooooooooooooooooooo	
2	30	350	52	oooooooooooooooooooooooooooooooo	

Fan#	Fan1	Fan2	Fan3	Fan4
Speed (r/min)	3,720	0	0	0

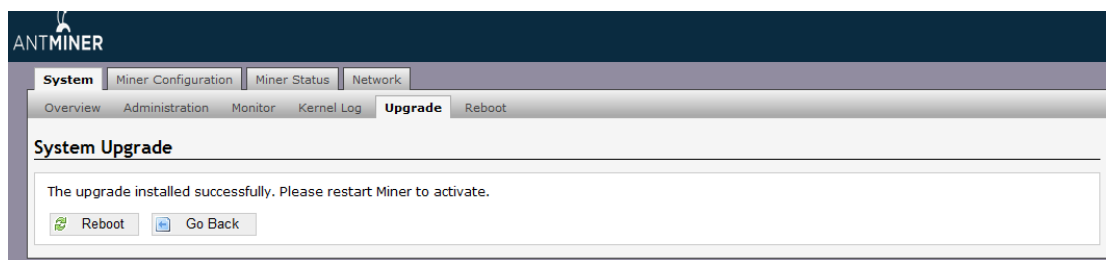
6 System Configuration and status

6.1 System Upgrading

You can update the miner's firmware on the 'System->Upgrade' page.



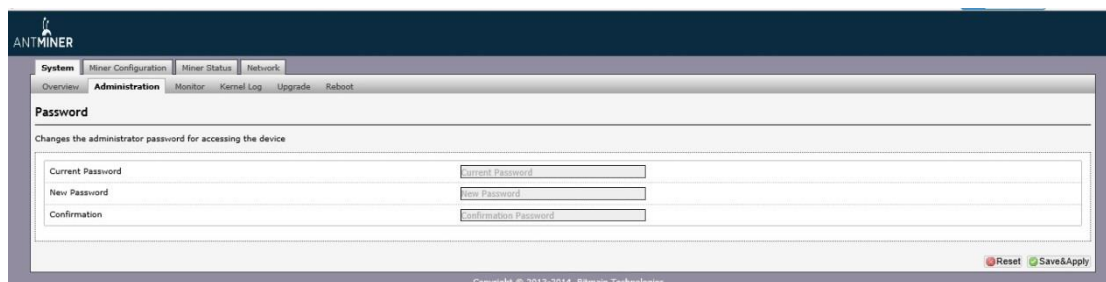
'Keep setting' is chosen by default and should be enabled if you want to keep your current settings. You should deselect this option if you are trying to return the miner to default settings. Click the 'Browse' button to choose the upgrade file. Select the upgrade and click the 'Flash image...' button. The interface will display if the firmware can be upgraded and download the software. During the upgrade process you need to **wait patiently, and must keep power on, otherwise the AntMiner can only be fixed when returned to the factory**. You will see the bellow screenshot after upgrading successfully.



Clicking the 'Reboot' button will restart the miner so it can load the new software. Clicking 'Go Back' will keep the AntMiner mining, before switching to the new software when it is next restarted or power cycled.

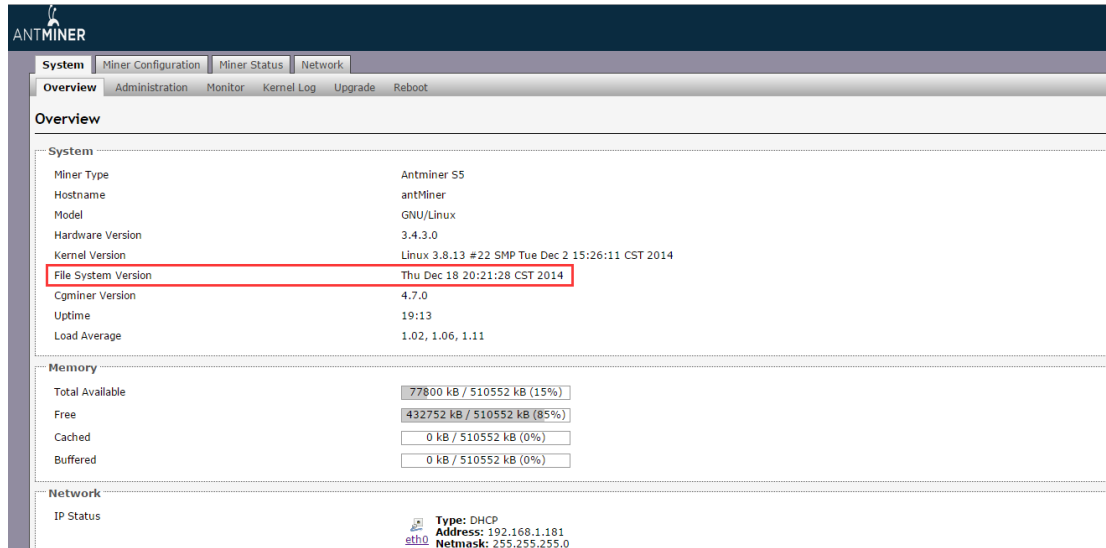
6.2 Password Modification

The AntMiner login password can be changed on the 'System->Administration' page. Once edited, press 'Save and Apply' to save the new password.



6.3 Software Version Checking

You can check which version of software you are currently running on the 'System->Overview', page. 'File System Version' displays the date of the firmware your miner has. In the example below, the miner is using 2014 12 18 firmware.



6.4 Restore Initial Setting

There is a 'Reset' button on the right hand side of the Ethernet port, next to the green and red LED lights. Press and hold the button for 5 seconds in order to restore the default settings and reboot. The red LED will flash once every 15 seconds automatically if the reset was successful.

