



BITMAIN AntMiner S15 Bitcoin Miner Installation Guide

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AntMiner S15 Bitcoin Miner

S15 Server Installation Guide

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1. Overview

The S15 server is Bitmain's newest version in the S15 server series. Power supply APW8 is part of S15 server. All S15 servers are tested and configured prior to shipping to ensure easy set up.



Caution:

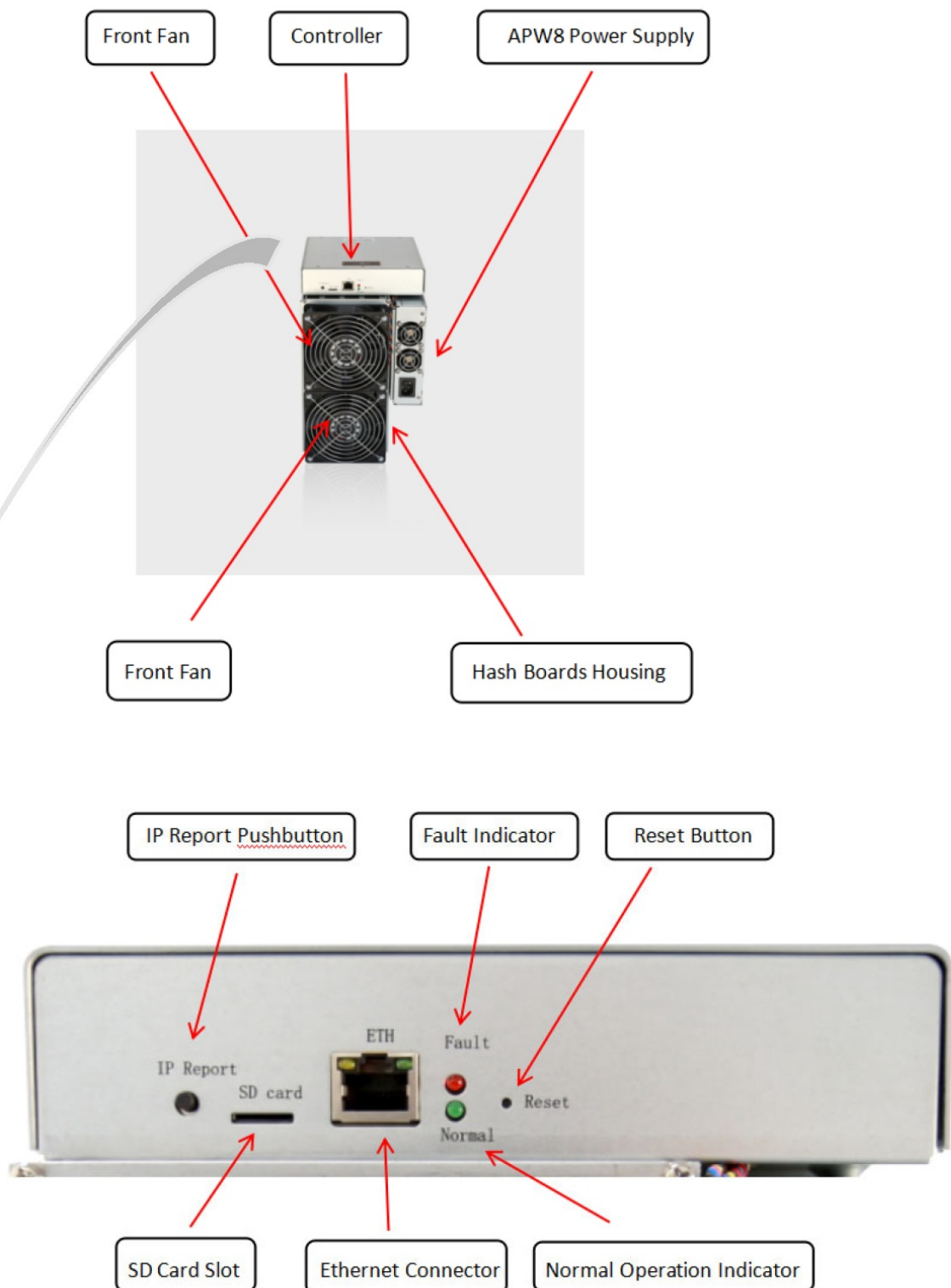
1. The socket-outlet shall be installed near the equipment and shall be easily accessible.
2. Please refer to the layout above to place your goods in usage in case of any damage.
3. Please keep S15 servers operated in an appropriate temperature in case of any damage. Please refer to the specifications for more details.

1.1 S15 Server Components

The S15 server main components and controller front panel are shown in the following figure:

1.1 S15 Server Components

The S15 server main components and controller front panel are shown in the following figure:



APW8 Power Supply:

Power Supply Socket



Note:



1. Power supply APW8 is part of S15 server. For detailed parameters, please refer to the specifications below.
2. Additional power cord is needed.

1.2 Specifications

Product Glance	Value	
Crypto Algorithm	SHA256	
	Normal	Low Power
Hashrate, TH/s	28.00	15.50~18.00
Reference power on wall, Watt	1596	775~900
Reference power efficiency on wall @25° C, J/TH	57.00	50.00

Detailed Characteristics		Value		
		Min	Typ	Max
Hashrate & Power				
Hashrate, TH/s	Normal	28.00	28.45	
	Low Power	15.50~18	+3% (1-1)	
Power efficiency on wall @0°C, J/TH	Normal	63.17	67.60	
	Low Power	53.02	56.73	
Power efficiency on wall @25°C, J/TH	Normal	57.00	60.99	
	Low Power	50.00	53.50	
Power efficiency on wall @40°C, J/TH	Normal	60.31	64.53	
	Low Power	52.34	56.00	
Power on wall, Watt (1-2)	Normal	1596	1923	
	Low Power	775	1052	
Power supply AC input voltage, Volt (1-3) 200		200	220	240
Power supply AC input current, Amp(1-4)	Normal	7.25	9.62	
	Low Power	3.52	5.26	
Power supply Input AC Frequency Range, Hz		47	50	63
Hardware Configuration				

Quantity of hash chips	288			
Quantity of hash boards	4			
Networking connection mode	RJ45 Ethernet 10/100M			
Miner Size (Length*Width*Height, w/o package), mm(2-1)	240*178*296			
Net weight, kg (2-2)	7.0			
Noise, dBA @25°C (2-3)	76			
Environment Requirements				
Operation temperature, °C	0	0	25	40
Storage temperature, °C	-40	-40	25	85
Operation humidity, RH	5%	5%		95%

Notes:

(1-1) In Low Power Mode, Max Hashrate should be Typ hashrate *103%

(1-2) Min condition: 25°C, min J/TH, typical hashrate

Max condition: 0°C, max J/TH, max hashrate

(1-3) Caution: Wrong input voltage may probably cause miner damaged

(1-4) Typ condition: min reference power, typical AC input voltage

Max condition: max reference power, min AC input voltage

(2-1) Including PSU size

(2-2) Including PSU weight

(2-3) Max condition: Fan is under max RPM(rotation per minute).

2. Setting Up the Server

To set up the server:

The file IPReporter.zip is supported by Microsoft Windows only.

1. Go to the following site:

<https://shop.bitmain.com/support.htm?pid=00720160906053730999PVD2K0vz0693>

2. Download the following file: IPReporter.zip

3. Extract the file.

The default DHCP network protocol distributes IP addresses automatically.

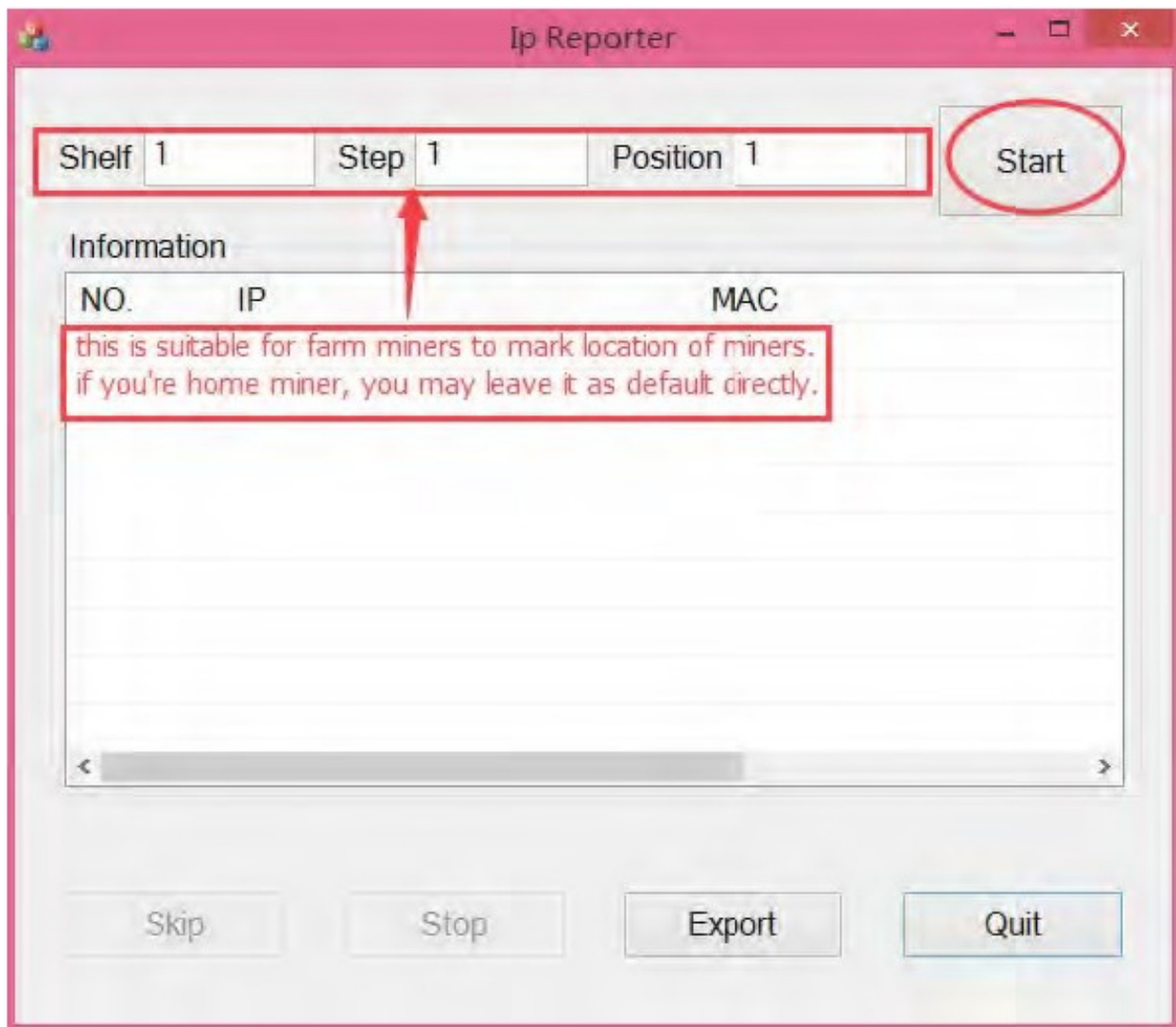
4. Right-click IPReporter.exe and run it as Administrator.

5. Select one of the following options:

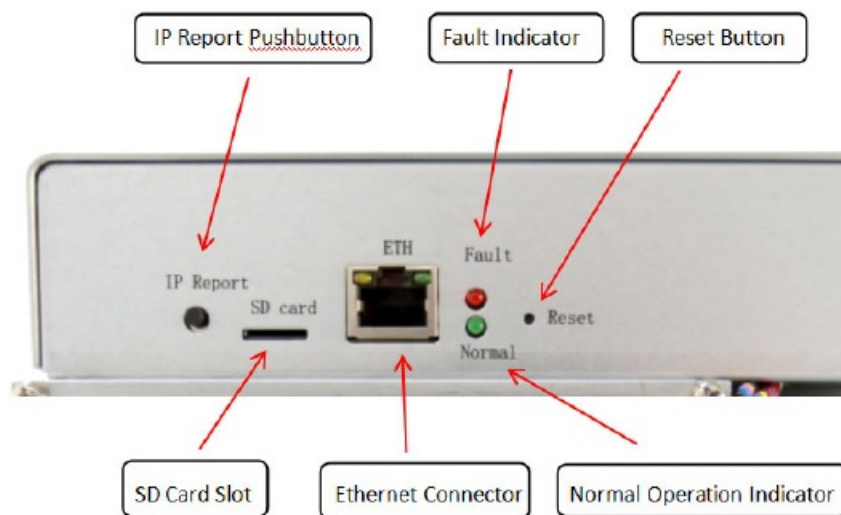
■ Shelf, Step, Position – suitable for farm servers to mark the location of the servers.

■ Default – suitable for home servers.

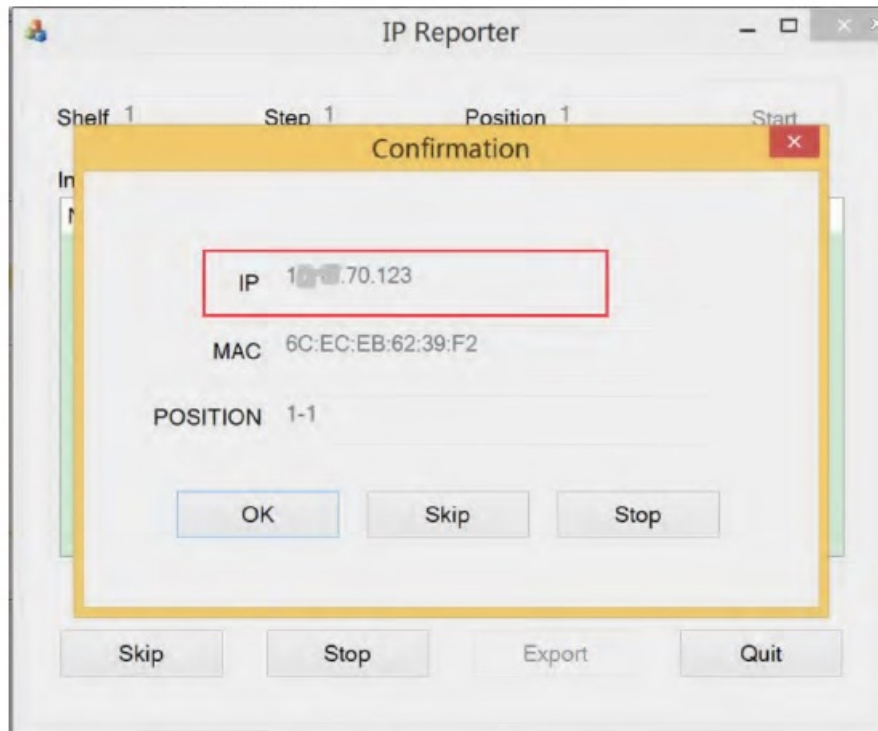
6. Click Start.



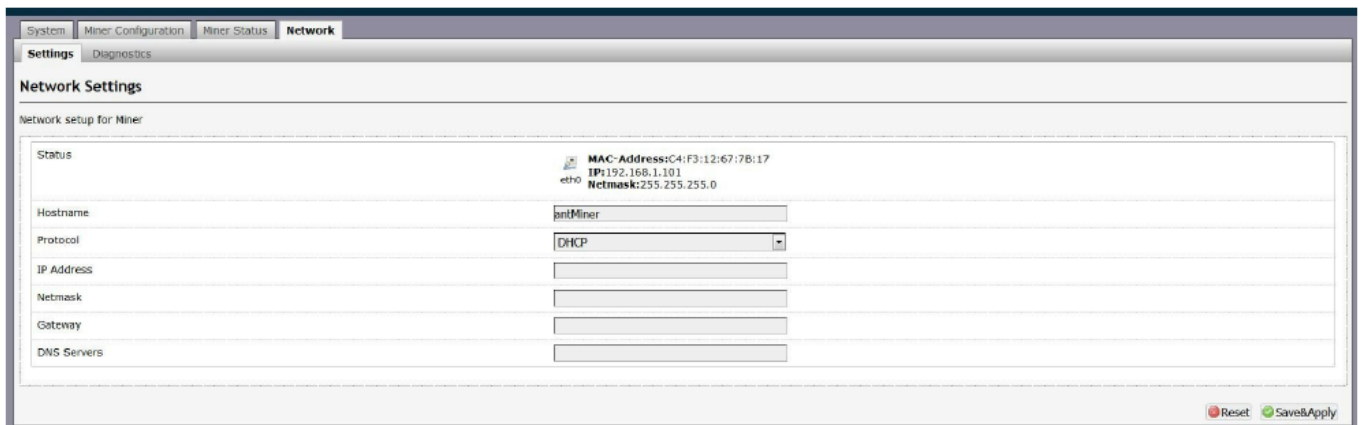
7. On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).



The IP address will be displayed in a window on your computer screen.



8. In your web browser, enter the IP address provided.
9. Proceed to login using root for both the username and password.
10. In the Network section, you can assign a DHCP IP address (optional).
11. Click Save & Apply.



3. Configuring the Server

Setting Up the Pool
To configure the server:

1. click General Settings.

ANTMINER

System **Miner Configuration** Miner Status Network

Miner General Configuration

Pool 1

URL: stratum-tcp://stratum.antpool.com:3333

Worker: antminer_1

Password: 123

Pool 2

URL: stratum-tcp://stratum.antpool.com:443

Worker: antminer_1

Password: 123

Pool 3

URL: stratum-tcp://stratum.antpool.com:25

Worker: antminer_1


Password: 123

Setup

Low Power Mode ☐

Reset Save&Apply

2. Set the options according to the following table:

Option	Description
Pool URL	<p>Enter the URL of your desired pool.</p> <div>  <p>The S15 server can be set up with three mining pools, with decreasing priority from the first pool (pool 1) to the third pool (pool 3). The pools with low priority will only be used if all higher priority pools are offline.</p> </div>
Worker	Your worker ID on the selected pool.
Password	The password for your selected worker.

3. Click Save & Apply to save and restart the server.

4. Monitoring Your server

To check the operating status of your server:

1. Click the status marked below

ANTMINER

SystemMiner ConfigurationMiner StatusNetwork

Miner Status

Summary

Elapsed	GH/S(RT)	GH/S(avg)	FoundBlocks	LocalWork	Utility	WU	BestShare
40m5s	29422.02	28091.97	0	247039	5.96	385858.53	66692611

Pools

Pool	URL	User	Status	Diff	GetWorks	Priority	Accepted	Diff1#	DiffA#	DiffR#	DiffS#	Rejected	Discarded	Stale	LSDiff	LSTime
0	stratum+tcp://stratum.antpool.com:3333	antminer_1	Alive	65.5K	51	0	240	0	15532032	0	0	0	1252	0	65536	0:00:00
1	stratum+tcp://stratum.antpool.com:443	antminer_1	Alive	32.8K	2	1	0	0	0	0	0	0	0	0	0	0
2	stratum+tcp://stratum.antpool.com:25	antminer_1	Alive		2	2	0	0	0	0	0	0	0	0	0	0
total					55	3	240	0	15532032	0	0	0	1252	0		
HW	59								0.0004%							

AntMiner

Chain#	ASIC#	Frequency	GH/S(RT)	HW	Temp(PCB)	Temp(Chip)	ASIC status									
1	72	385	7828.28	7	40-58-39-58	55-73-54-73	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
2	72	376	7102.63	52	43-61-42-60	58-76-57-75	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
3	72	368	7300.53	0	44-63-42-64	59-78-57-79	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
4	72	385	7190.58	0	40-56-39-57	55-71-54-72	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000

Fan#	fan1		fan2	
Speed (r/min)	4080		4080	

2. monitor your server according to the descriptions in the following table:

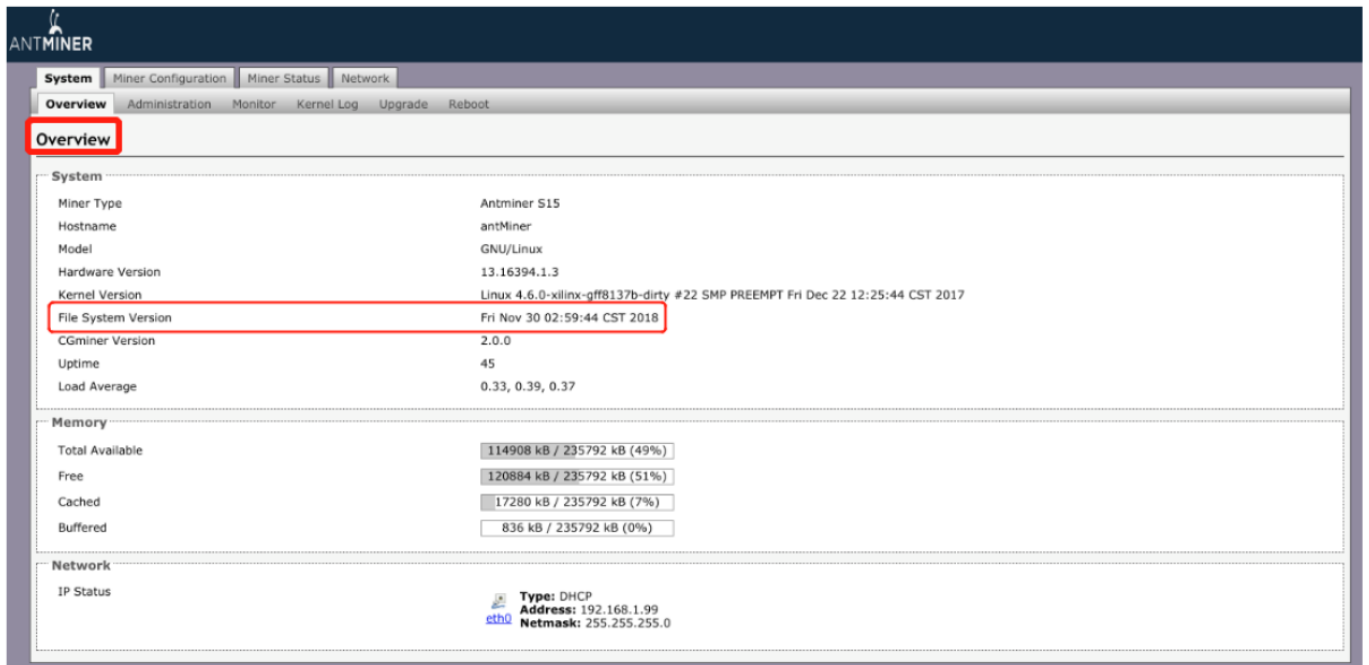
Option	Description
ASIC#	Number of chips detected in the chain.
Frequency	ASIC frequency setting.
GH/S(RT)	Hash rate of each hash board (GH/s)
Temp(PCB)	Temperature of each hash board (°C).(Applied only to server with fixed frequency)
Temp(Chip)	Temperature of the chips on each hash board (°C).
ASIC status	<p>One of the following statuses will appear:</p> <ul style="list-style-type: none"> ● O - indicates OK ● X - indicates error ● - - indicates dead

5. Administering Your Server

5.1 Checking Your Firmware Version

To check your firmware version:

1. In System, click the Overview tab.
2. File System Version displays the date of the firmware your server use. In the example below, the server is using firmware version 20181130.

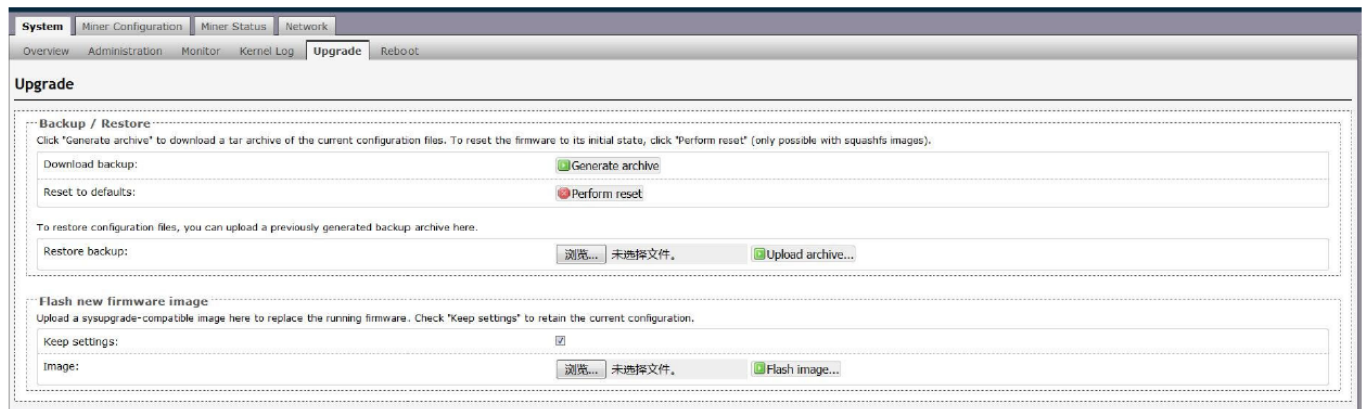


5.2 Upgrading Your System

Make sure that the S15 server remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

To upgrade the server's firmware:

1. In System, click Upgrade.

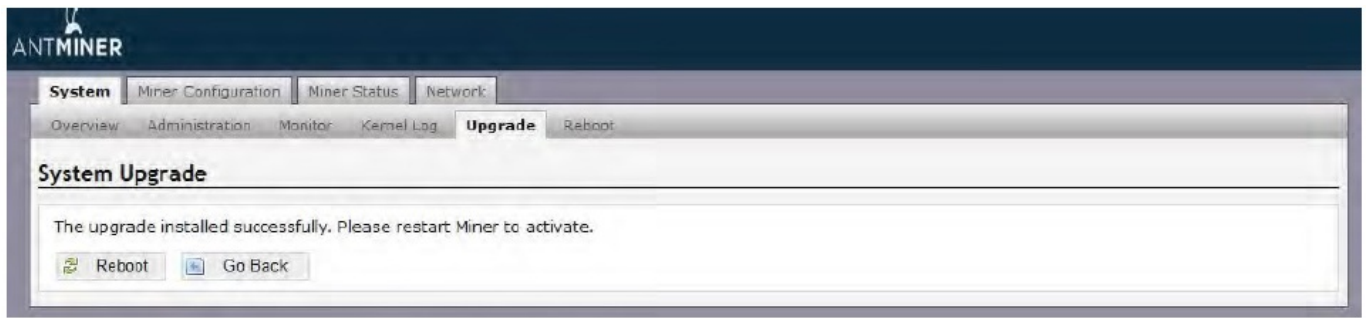


2. For Keep Settings:

- Select the check box to keep your current settings (default).
- Clear the check box to reset the server to default settings.

3. Click the (Browse) button and navigate to the upgrade file. Select the upgrade file, then click Flash image. A message appears notifying you if the S15 firmware can be upgraded and if yes, will then proceed to flash the image.

4. When the upgrade is completed, the following message appears:



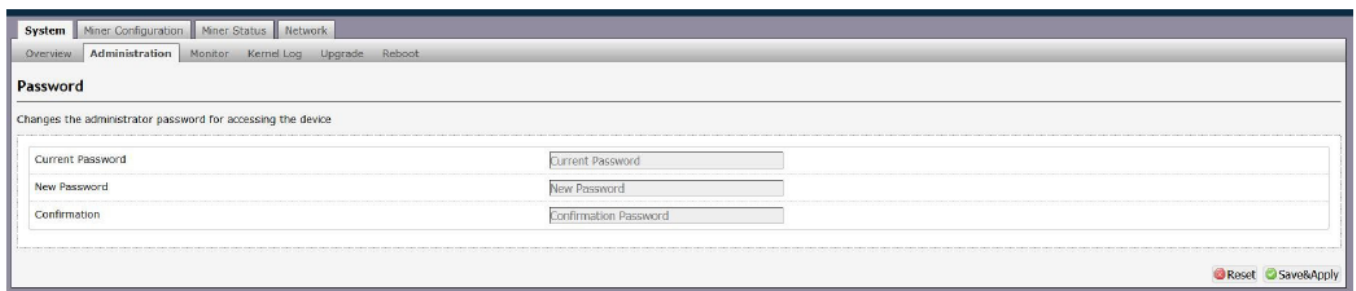
5. Click one of the following options:

- Reboot - to restart the server with the new firmware.
- Go Back - to continue mining with the current firmware. The server will load the new firmware next time it is restarted.

5.3 Modifying Your Password

To change your login password:

1. In System, click the Administration tab.
2. Set your new password, then click Save & Apply.



5.4 Restoring Initial Settings

To restore your initial settings

1. Turn on the server and let it run for 5 minutes.
 2. On the controller front panel, press and hold the Reset button for 10 seconds.
- Resetting your server will reboot it and restore its default settings. The red LED will automatically flash once every 15 seconds if the reset is operated successfully.

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.

Documents / Resources

	BITMAIN AntMiner S15 Bitcoin Miner [pdf] Installation Guide AntMiner S15, Bitcoin Miner
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