



D3 Server Installation Guide

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1. Overview

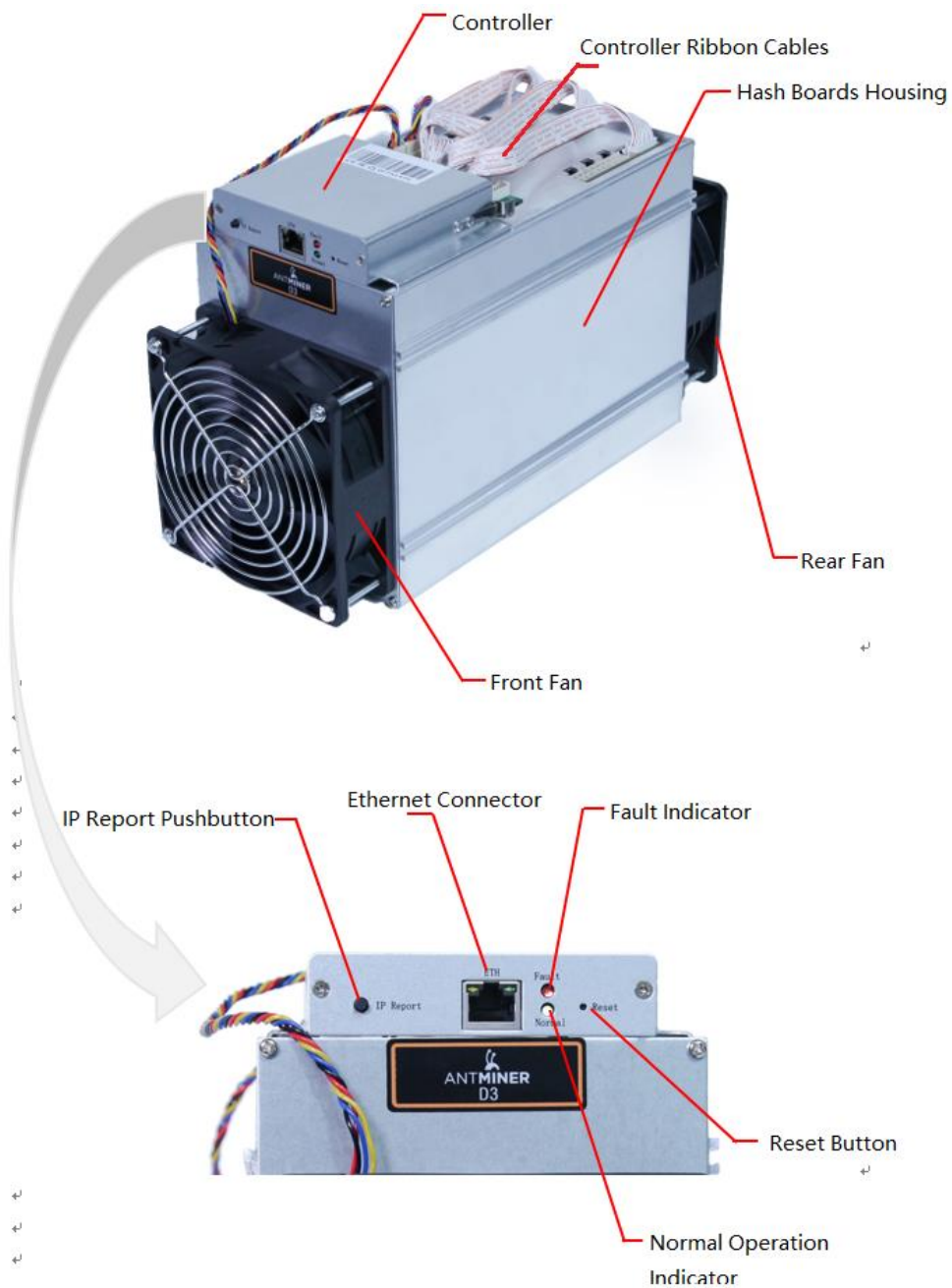
The D3 server is Bitmain's newest version in the D3 server series. It boasts a state-of-the-art BM1760 custom-made chip using 28nm technology. All D3 servers are tested and configured prior to shipping to ensure easy set up.



Power supply unit is **not included**. Please provide your own ATX power supply.

1.1 D3 Server Components

The D3 server main components and controller front panel are shown in the following figure:



1.2 Specification

Hash Rate	17 GH/s±5%
Rated voltage	11.60 ~ 13.00V
Frequency	487M
Estimated wall outlet power consumption (with APW3, 93% efficiency, 25°C ambient temperature)	970W + 7%
Estimated wall outlet power efficiency (with APW3, 93% efficiency, 25°C ambient temperature)	57mJ/MH + 7%
Dimensions (L x W x H)	320mm*130mm*190mm
Net weight without packaging	4.2kg
Operating ambient temperature	0 ~ 40°C




The server does not contain a DC/DC converter; therefore, higher input voltage will cause higher Mining efficiency.

2. Connecting the Power Supply

2. Connecting the Power Supply

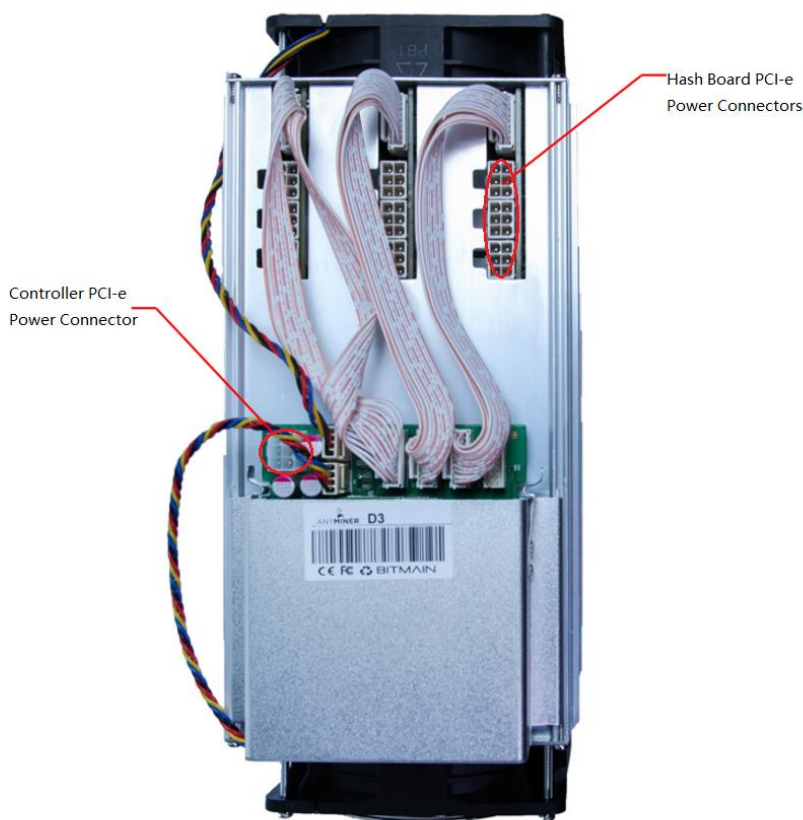
Ten PCI-e connectors are located at the top of the D3 server for connecting the PSU as follows:

- Nine PCI-e connectors for the hash boards. Each hash board has a set of three PCI-e connectors.
- One PCI-e connector located on the controller.


 Each hashboard must be powered by the same PSU on both connectors to prevent Possible damage and instability.

To connect the power supply:

1. Connect PSU power cable connectors to each of the nine PCI-e connectors on the top of the D3 server , ensuring that each hash board is powered by the same PSU.



2. Connect a PSU power cable connector to the D3 server PCI-e connector on the controller.
3. Connect the network cable to the ETH port. (WIFI is unavailable for servers)
4. To power up your D3 server, connect the PSUs to the power wall outlet.

 If you are using more than one PSU, power up the PSU connected to the controller AFTER you have powered up the other PSU(s).

2. Connecting the Power Supply

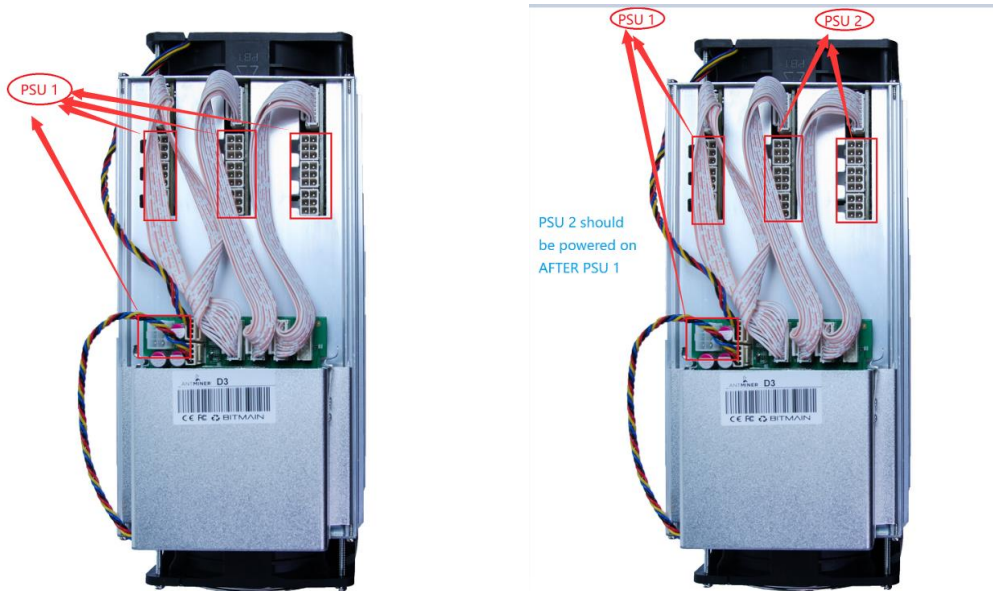


Figure 2-1. PCI-E Connectors - Correct Connection

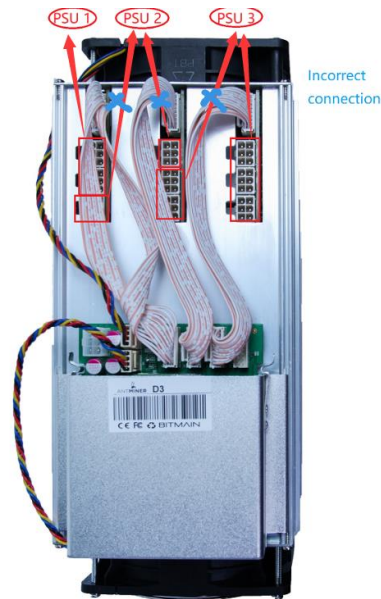


Figure 2-2. PCI-E Connectors - Incorrect Connection


3. Setting Up the Server

3. Setting Up Server

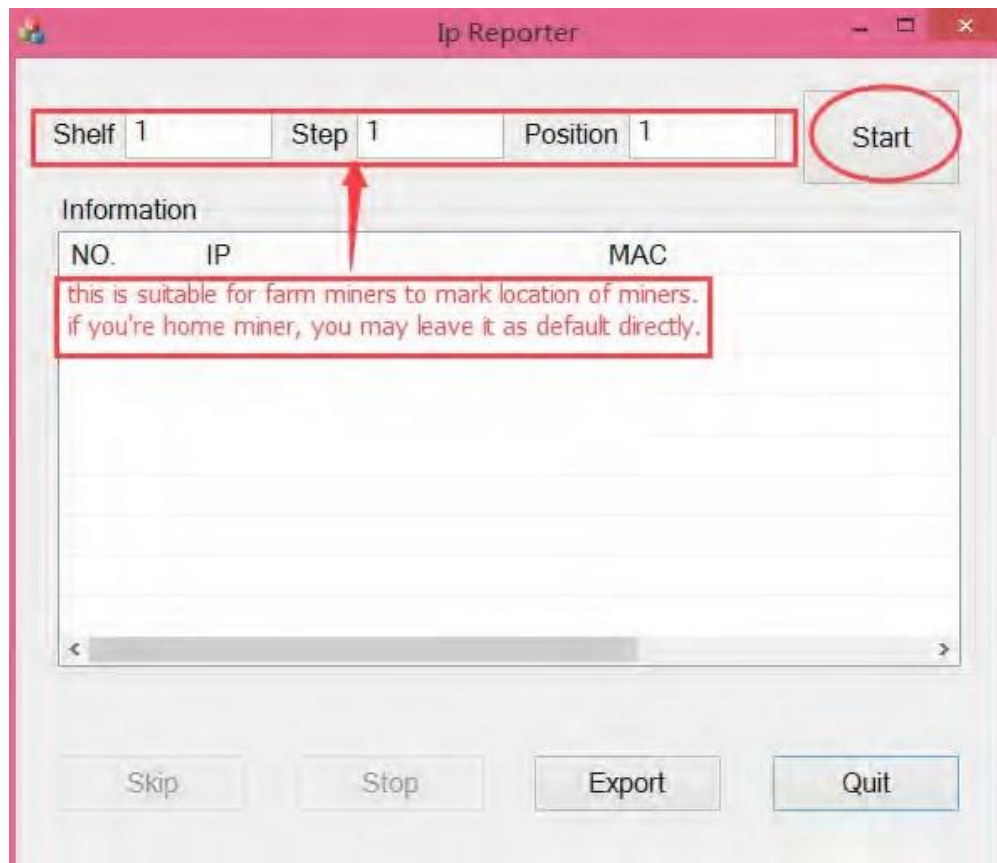
To set up the server:

 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 file: IPReporter.zip
3. Extract the file.

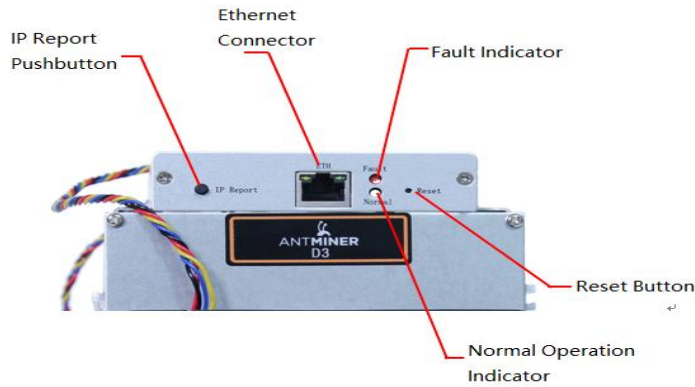
 The default DHCP network protocol distributes IP addresses automatically.

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**.

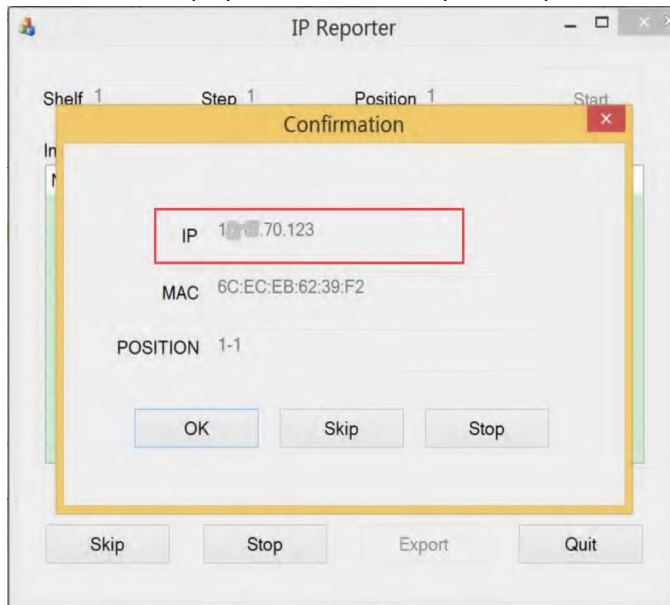


3. Setting Up the Server

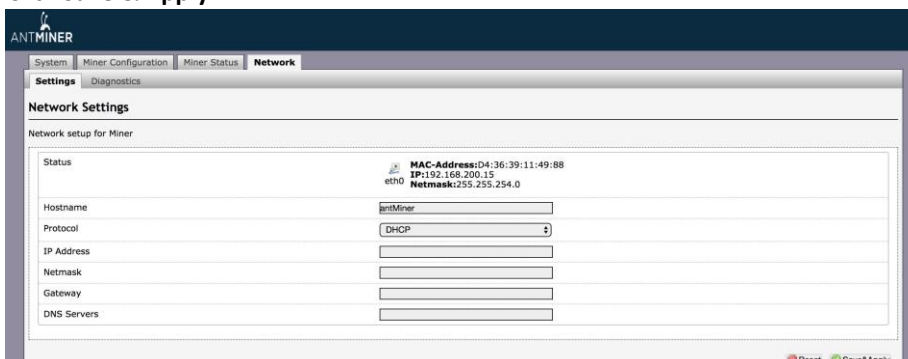
- On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).



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



- In your web browser, enter the IP address provided.
- Proceed to login using `root` for both the username and password.
- In the Network section, you can assign a Static IP address (optional).
- Click **Save & Apply**.




4. Configuring the Server

4. Configuring the Server

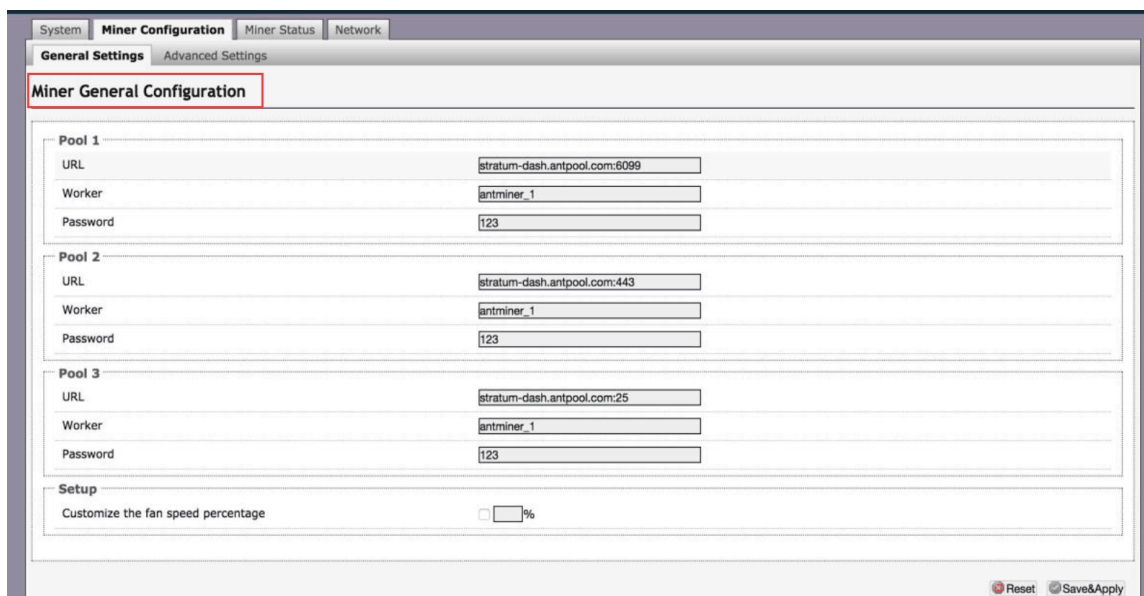
4.1 Setting Up the Pool

To configure the server:

1. Click **General Settings**.
2. Set the options according to the following table:

Option	Description
Pool URL	Enter the URL of your desired pool. <div style="border: 1px solid black; padding: 10px; margin-top: 10px;">  <p>The D3 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**.

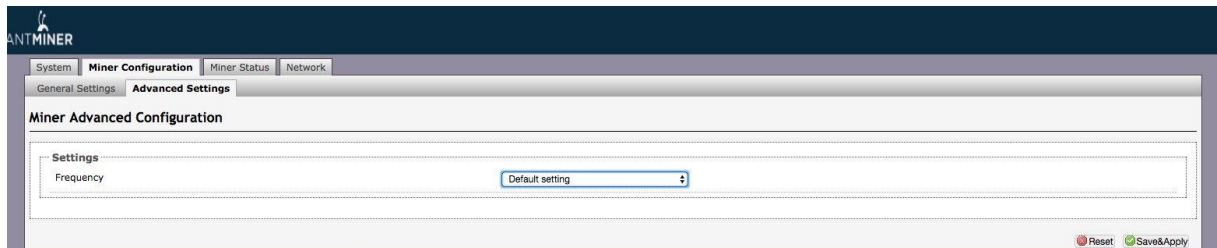


4.2 Modifying the Frequency

You are able to modify the frequency value through ' Configuration —>Advanced Settings'.



Bitmain recommend a default frequency of D3 server , and Overlocking the server will void the warranty immediately.

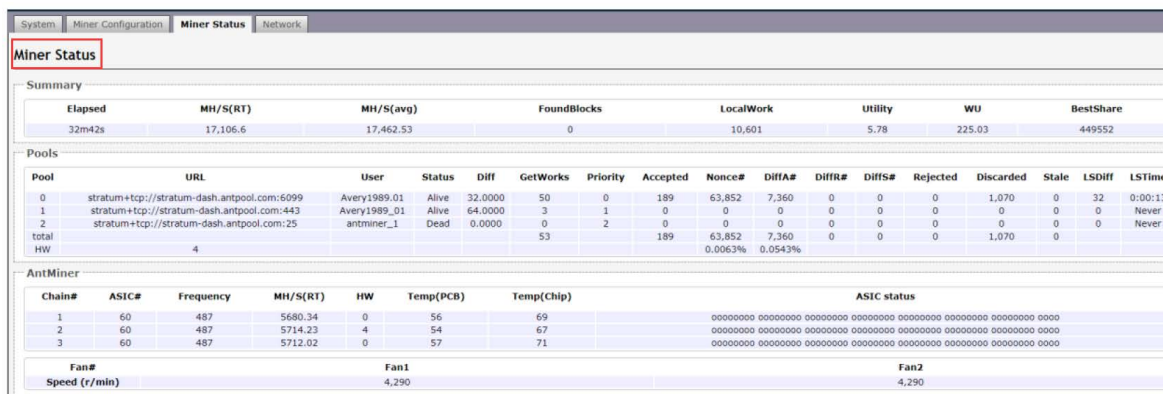


5. Monitoring Your Server

To check the operating status of your server:

1. Click the status marked below.
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	One of the following statuses will appear: <ul style="list-style-type: none"> ● O - indicates OK ● X - indicates error ● - indicates dead




The screenshot shows the 'Miner Status' page with the following data:

Summary													
Elapsed	MH/S(RT)	MH/S(avg)	FoundBlocks	LocalWork	Utility	WU	BestShare						
32m42s	17,106.6	17,462.53	0	10,601	5.78	225.03	449552						

Pools																
Pool	URL	User	Status	Diff	GetWorks	Priority	Accepted	Nonce#	DIFFA#	DIFFR#	DIFFS#	Rejected	Discarded	Stale	LSDiff	LSTime
0	stratum+tcp://stratum-dash.antpool.com:6099	Avery1989_01	Alive	32.0000	50	0	189	63,852	7,360	0	0	0	1,070	0	32	0:00:13
1	stratum+tcp://stratum-dash.antpool.com:443	Avery1989_01	Alive	64.0000	3	1	0	0	0	0	0	0	0	0	0	Never
2	stratum+tcp://stratum-dash.antpool.com:25	antminer_1	Dead	0.0000	0	2	0	0	0	0	0	0	0	0	0	Never
total					53		189	63,852	7,360	0	0	0	1,070	0		
HW	4							0.0063%	0.0543%							

AntMiner										
Chain#	ASIC#	Frequency	MH/S(RT)	HW	Temp(PCB)	Temp(Chip)	ASIC status			
1	60	487	5680.34	0	56	69	○○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○			
2	60	487	5714.23	4	54	67	○○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○			
3	60	487	5712.02	0	57	71	○○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○ ○○○○○○○			

Fan#		Fan1		Fan2	
Speed (r/min)		4,290		4,290	

 **Note:** The D3 server will stop running when the Temp(PCB) exceeds to 85°C, there will be an error message “Fatal Error: Temperature is too high!” shown in the bottom of kernel log page.

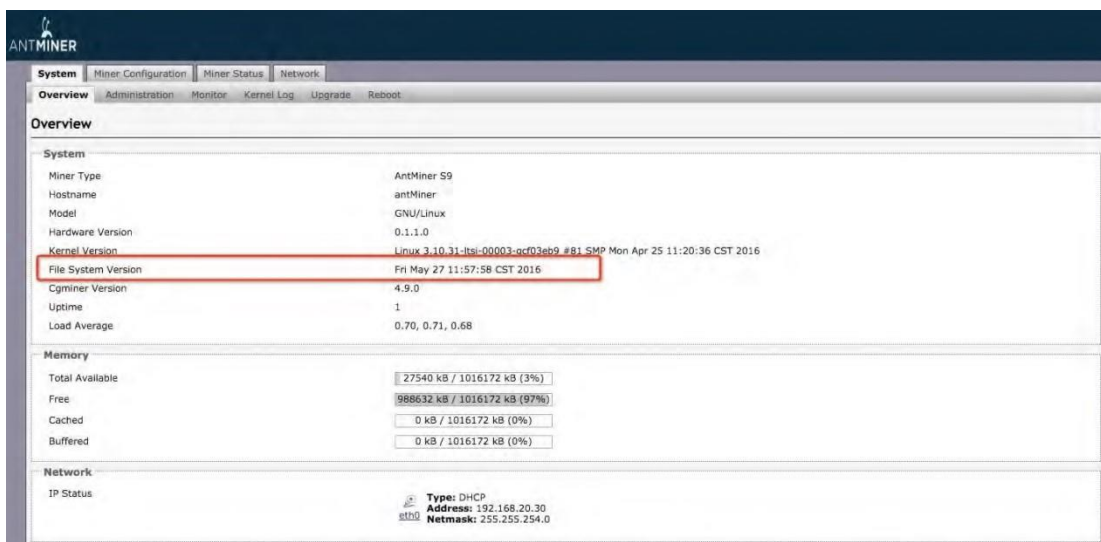
6. Administering Your Server

6. Administering Your Server

6.1 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. (Screenshot below of S9 server just for your reference to display the message, the message shows on your computer shall prevail.



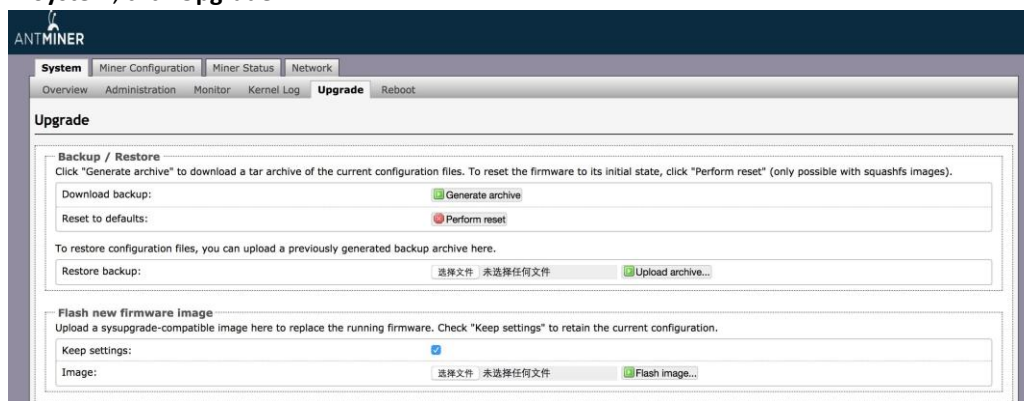
6.2 Upgrading Your System



Make sure that the D3 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.

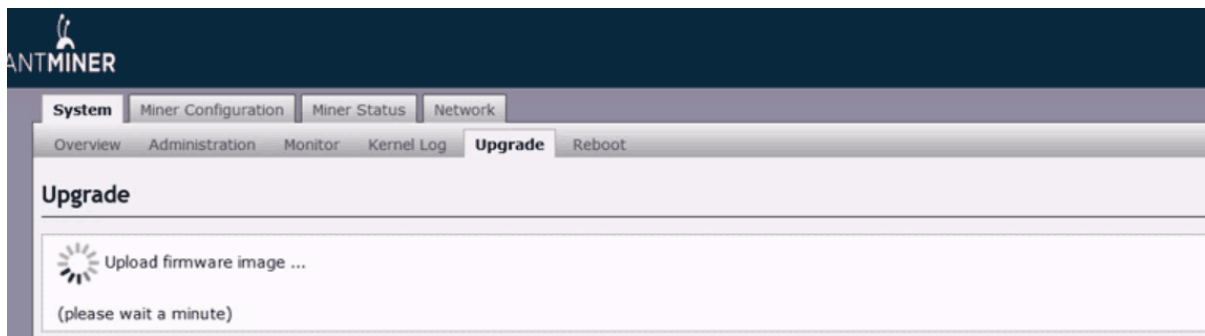
To upgrade the server's firmware:

1. In **System**, click **Upgrade**.

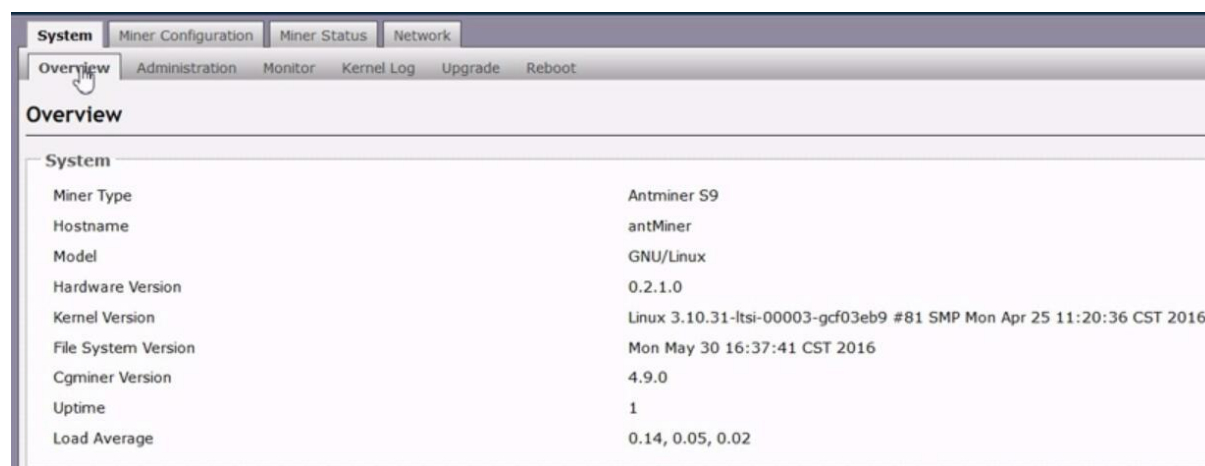


2. For **Keep Settings**:
 - Select the check box to keep your current settings (default).
 - Clear the check box to reset the server to default settings.
3. Click the **选择文件** (**Browse**) button and navigate to the upgrade file. Select the upgrade file, then click **Flash image**. A message appears notifying you if the D3 server firmware can be upgraded and if yes, will then

proceed to flash the image. (Note: Please do not extract the update file and keep the power on during updating firmware or otherwise the server needs to be returned to the factory to repair. And around two minutes will be needed to complete updating.)



- When the upgrade is completed successfully, the following message will appear: (Screenshot below of S9 server just for your reference to show the message, the message shows on your computer shall prevail).



6.3 Modifying Your Password

To change your login password:


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



6.4 Restoring Initial Settings

To restore your initial settings, two methods below for your reference.

- Turn on the server and let it run for 5 minutes.
- 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 handling 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	—	○	○	○	○	○
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						