



# **AntMiner L3+ Installation Guide**

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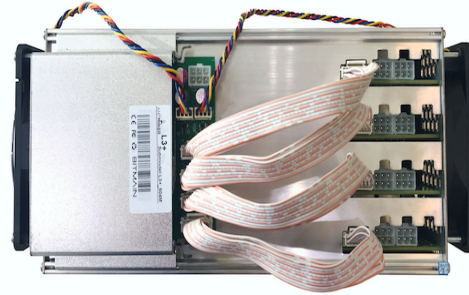
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## 1. Overview

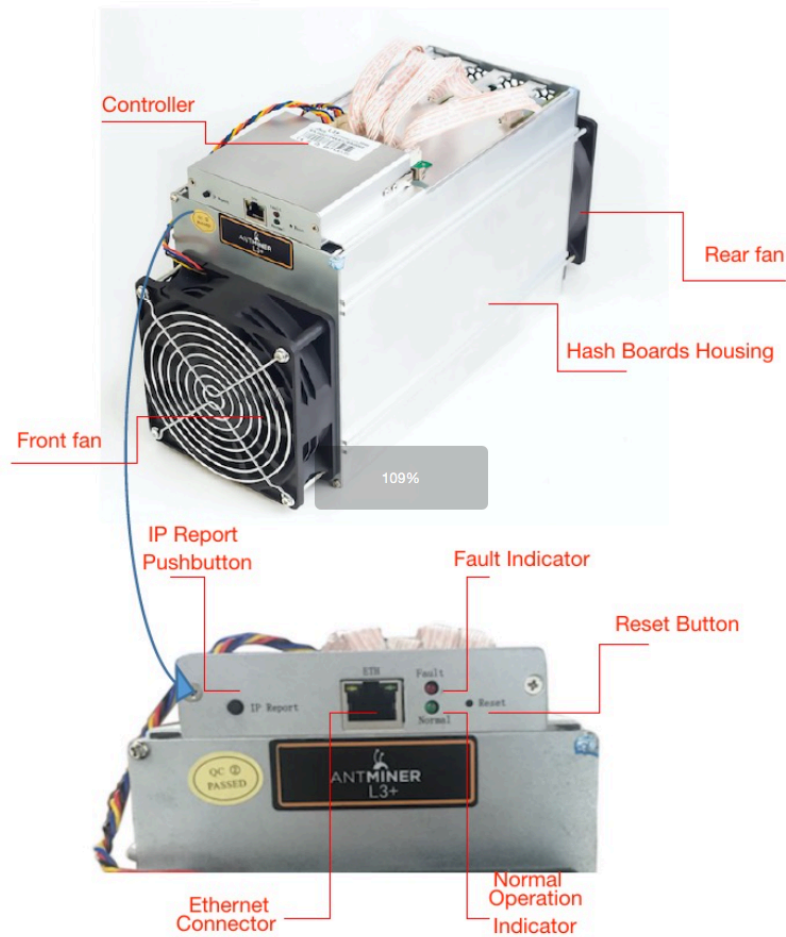
The AntMiner L3+ is Bitmain's newest version in the AntMiner L3+ series. It boasts a state-of-the-art BM1485 custom-made chip. All AntMiner L3+ miners are tested and configured prior to shipping to ensure easy set up.



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

## 1.1 AntMiner L3+ Components

The AntMiner L3+ main components and controller front panel are shown in the following figure:



## 1.2 Specification

| Feature   | Description                         |
|---|-------------------------------------|
| Ideal Hash Rate   | 504MH/S                             |
| Default chip frequency  | 384M                                |
| Estimated wall outlet power consumption (with APW3, 93% efficiency, 25°C ambient temperature) | 800W +10%                           |
| Rated voltage   | 11.6 - 13.00V                       |
| Estimated wall outlet power efficiency (with APW3, 93% efficiency, 25°C ambient temperature)  | 1.6J/MH +10%                        |
| Dimensions (L x W x H)  | 352mm (l) x 130mm (w) x 187.5mm (h) |
| Net weight  | 5.2kg                               |
| Operating ambient temperature   | 0 - 40°C                            |



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

## 2. Connecting the Power Supply

Nine PCI-e connectors are located at the top of the AntMiner L3+ for connecting the PSU as follows:

- Eight PCI-e connectors for the hash boards. Each hash board has a set of two 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.

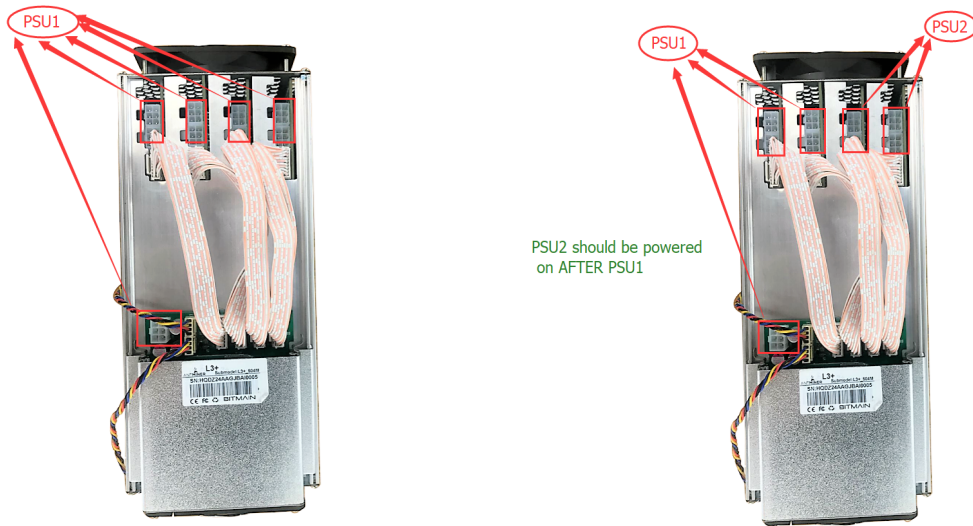
### To connect the power supply:

1. Connect PSU power cable connectors to each of the eight PCI-e connectors on the top of the AntMiner L3+, ensuring that each hash board is powered by the same PSU.
2. Connect a PSU power cable connector to the AntMiner L3+ PCI-e connector on the controller.
3. Connect the network cable to the ETH port.
4. To power up your AntMiner L3+, 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 Miner

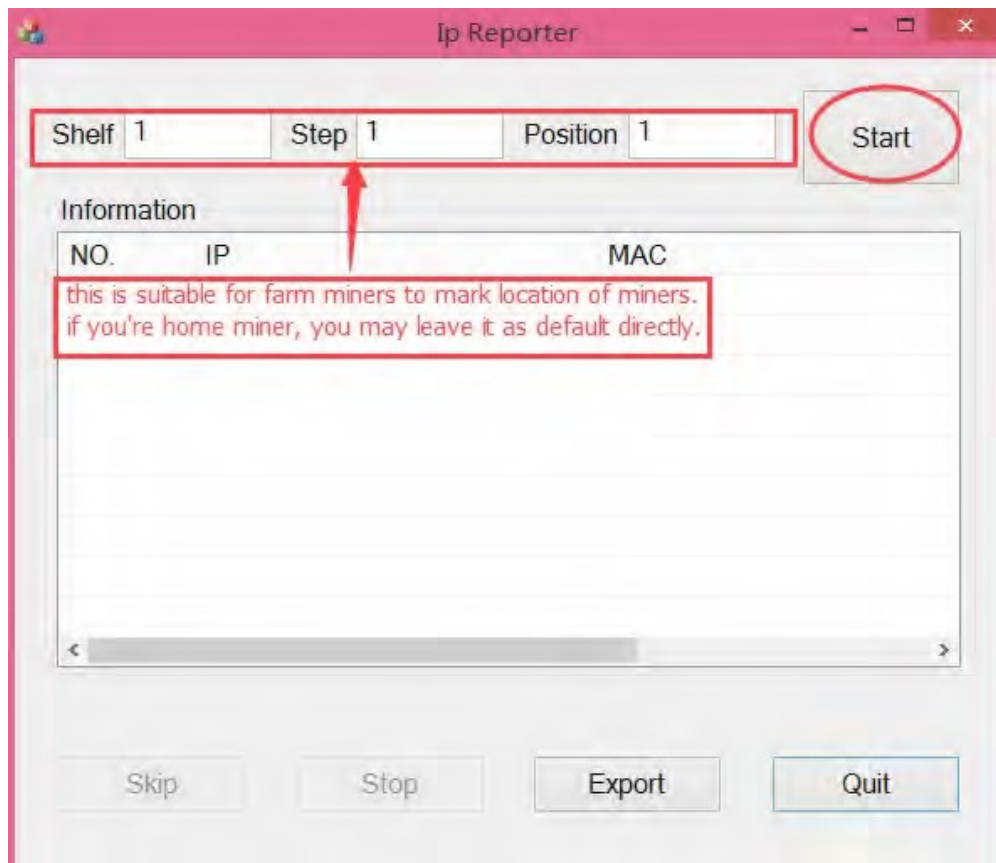
To set up the miner:

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

1. Go to the following site:  
<https://cnshop.bitmain.com/support.htm?pid=007201512210613294744rqn82k7068A>
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 miners to mark the location of the miners.
  - Default – suitable for home miners.
6. Click **Start**.

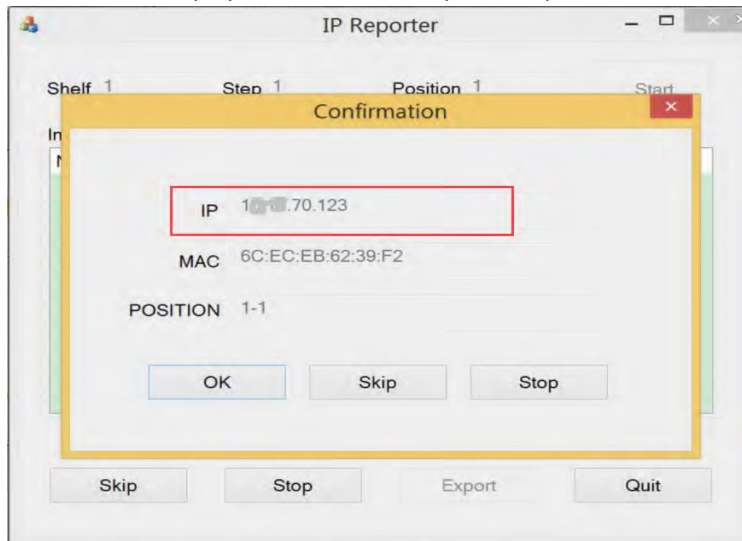


### 3. Setting Up the Miner

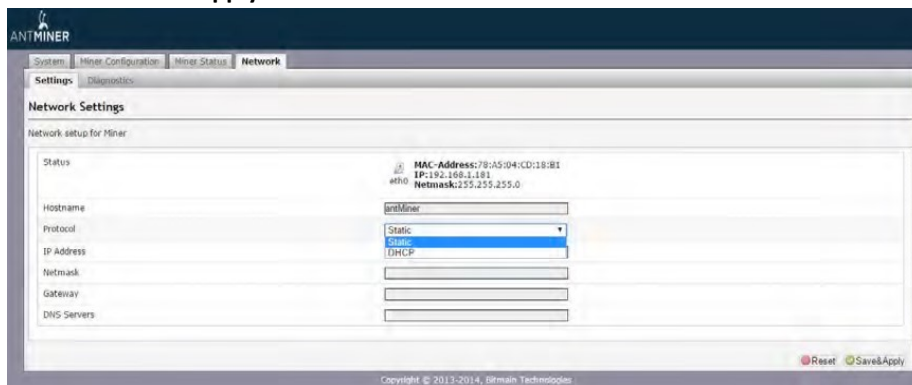
- On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).



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 Miner

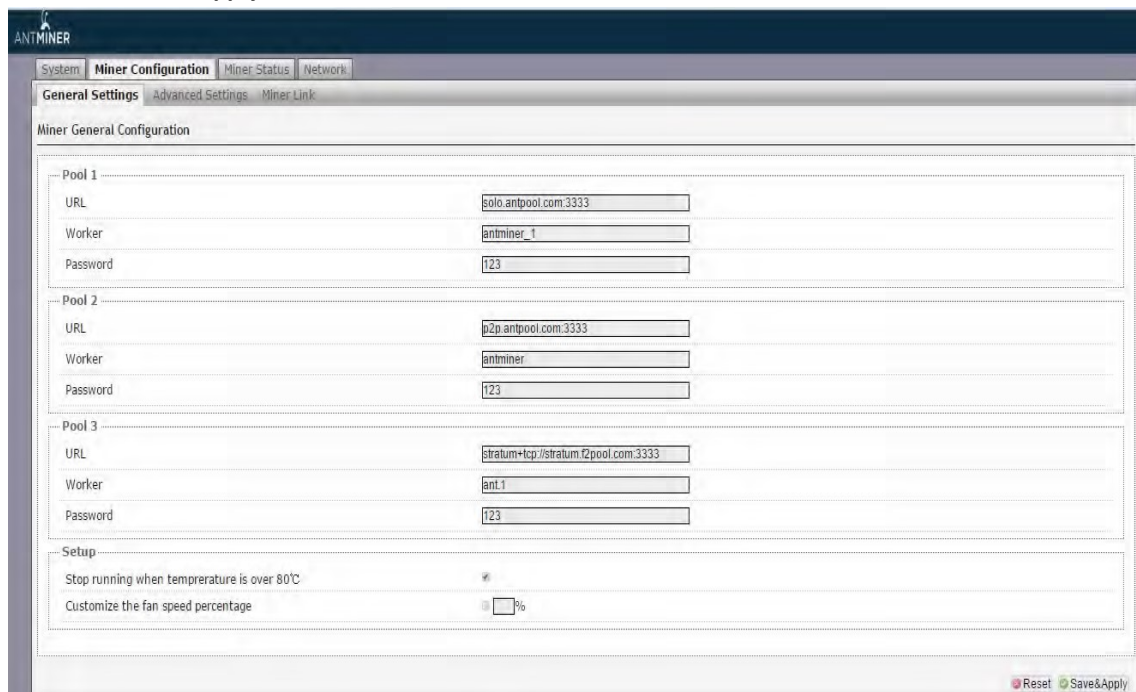
### 4.1 Setting Up the Pool

To configure the miner:

1. In Miner Configuration, click **General Settings**.
2. Set the options according to the following table:

| Option   | Description   |
|----------|---|
| Pool URL | <p>Enter the URL of your desired pool.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p> The AntMiner L3+ can be set up with three mining pools, with decreasing priority from the first pool (pool 1) to the third pool (pool 3).<br/>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 miner.



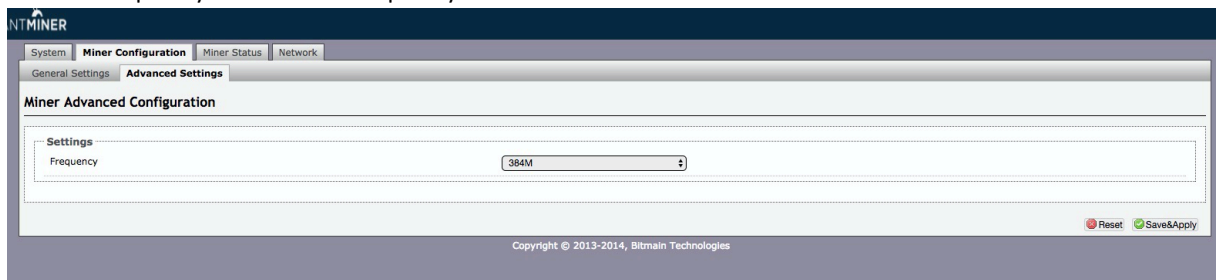
The screenshot shows the 'Miner Configuration' page with the 'General Settings' tab selected. It features three sections for configuring mining pools (Pool 1, Pool 2, Pool 3) and a 'Setup' section. Each pool section includes input fields for 'URL', 'Worker', and 'Password'. The 'Setup' section includes a checkbox for 'Stop running when temperature is over 80°C' and a percentage input for 'Customize the fan speed percentage'. At the bottom right, there are 'Reset' and 'Save&Apply' buttons.

## 4. Configuring the Miner

## 4.2 Modifying the Frequency (Applied only to fixed frequency firmware)

To modify the frequency value:

1. In **Miner Configuration**, click **Advanced Settings**
2. Select a frequency. The default frequency for the AntMiner L3+ is 384M

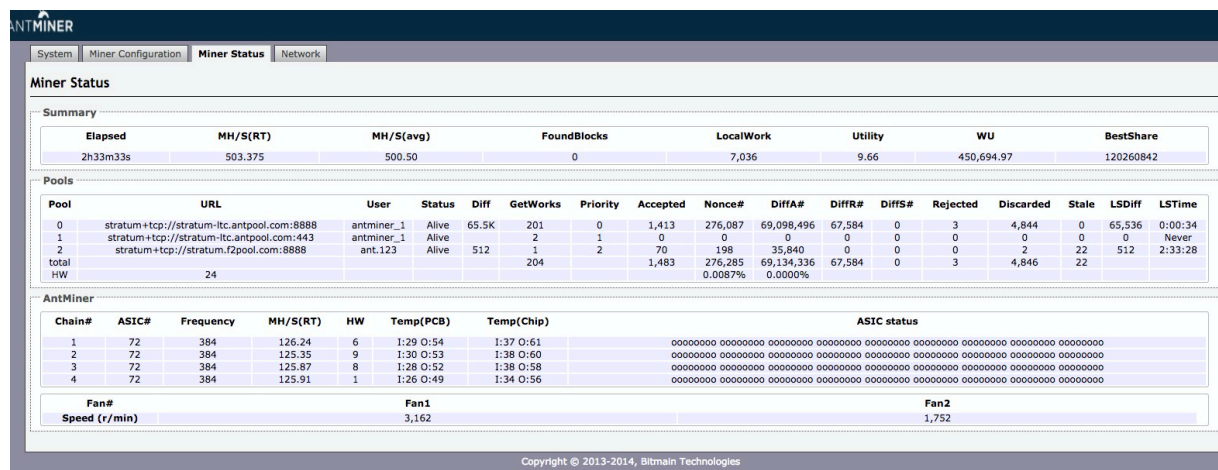


## 5. Monitoring Your Miner

To check the operating status of your miner:

1. Click **Miner Status**.
2. Under AntMiner, monitor your miner 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 ( MH/s)  |
| Temp(PCB)   | Temperature of each hash board (°C).(Applied only to miner 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"> <li>● <b>O</b> - indicates OK</li> <li>● <b>X</b> - indicates error</li> <li>● <b>-</b> - indicates dead</li> </ul> |



The screenshot shows the 'Miner Status' page in the AntMiner web interface. It includes a navigation menu (System, Miner Configuration, Miner Status, Network) and several data sections:

- Summary:** A table with columns: Elapsed (2h33m33s), MH/S(RT) (503.375), MH/S(avg) (500.50), FoundBlocks (0), LocalWork (7,036), Utility (9.66), WU (450,694.97), and BestShare (120260842).
- Pools:** A table with columns: Pool, URL, User, Status, Diff, GetWorks, Priority, Accepted, Nonce#, DiffA#, DiffR#, DiffS#, Rejected, Discarded, Stale, LSDiff, and LSTime. It lists three pools connected to stratum+tcp://stratum-rtc.antpool.com:8888 and stratum+tcp://stratum.f2pool.com:8888.
- AntMiner:** A table with columns: Chain#, ASIC#, Frequency, MH/S(RT), HW, Temp(PCB), Temp(Chip), and ASIC status. It shows four ASICs with their respective temperatures and operational times.
- Fan Status:** A section showing Fan# and Speed (r/min) for Fan1 (3,162) and Fan2 (1,752).

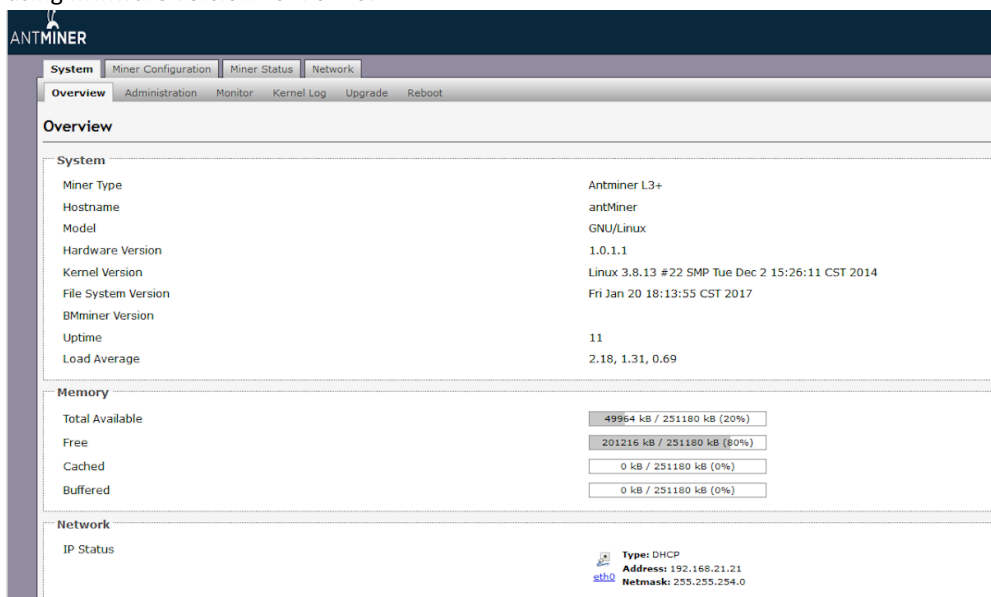
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Note :The miner will stop running when the PCB temperature is over 85°C

## 6. Administering Your Miner 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 miner use. In the example below, the miner is using firmware version 20170120.



### 6.2 Upgrading Your System



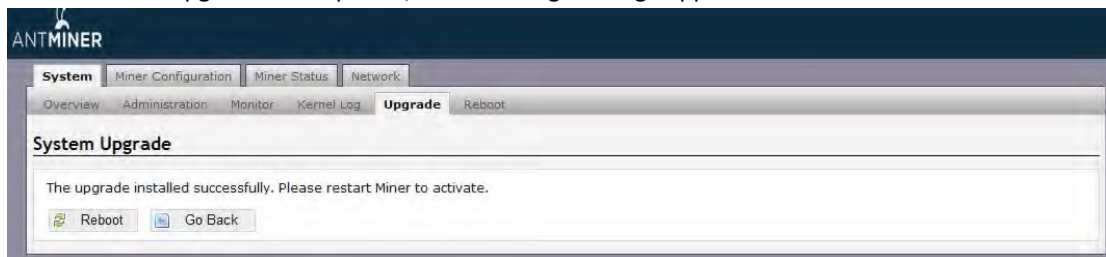
Make sure that the AntMiner L3+ remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

To upgrade the miner'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 miner 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 AntMiner L3+ 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 miner with the new firmware.
  - **Go Back** - to continue mining with the current firmware. The miner will load the new firmware next time it is restarted.

### 6.3 Modifying Your Password

To change your login password:

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



### 6.4 Restoring Initial Settings

To restore your initial settings

1. Turn on the miner and let it run for 5 minutes.
2. On the controller front panel, press and hold the **Reset** button for 10 seconds.



Resetting your miner will reboot it and restore its default settings. The red LED will automatically flash once every 15 seconds if the reset is operated successfully.