AntMiner L3+
Installation Guide

Document Version 0.1
April 2017

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Bitmain Technologies Ltd.
Tel:   +86-400-890-8855

www.bitmain.com
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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
<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ideal Hash Rate</td>
<td>504MH/S</td>
</tr>
<tr>
<td>Default chip frequency</td>
<td>384M</td>
</tr>
<tr>
<td>Estimated wall outlet power consumption</td>
<td>800W +10%</td>
</tr>
<tr>
<td>Estimated wall outlet power efficiency</td>
<td>1.6J/MH +10%</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>11.6 - 13.00V</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>352mm (l) x 130mm (w) x 187.5mm (h)</td>
</tr>
<tr>
<td>Net weight</td>
<td>5.2kg</td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>0 - 40°C</td>
</tr>
</tbody>
</table>

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

PSU2 should be powered on AFTER PSU1

Figure 2-2. PCI-E Connectors - Incorrect Connection
3. Setting Up the Miner

To set up the miner:

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

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 Static IP address (optional).

11. 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:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pool URL</td>
<td>Enter the URL of your desired pool. 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). The pools with low priority will only be used if all higher priority pools are offline.</td>
</tr>
<tr>
<td>Worker</td>
<td>Your worker ID on the selected pool.</td>
</tr>
<tr>
<td>Password</td>
<td>The password for your selected worker.</td>
</tr>
</tbody>
</table>

3. Click **Save & Apply** to save and restart the miner.
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:

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASIC#</td>
<td>Number of chips detected in the chain.</td>
</tr>
<tr>
<td>Frequency</td>
<td>ASIC frequency setting.</td>
</tr>
<tr>
<td>GH/S(RT)</td>
<td>Hash rate of each hash board (MH/s)</td>
</tr>
<tr>
<td>Temp(PCB)</td>
<td>Temperature of each hash board (°C). (Applied only to miner with fixed frequency)</td>
</tr>
<tr>
<td>Temp(Chip)</td>
<td>Temperature of the chips on each hash board (°C).</td>
</tr>
</tbody>
</table>

ASIC status: One of the following statuses will appear:

- O - indicates OK
- X - indicates error
- - - indicates dead

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 **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.