



# BITMAIN AntMiner X3 CryptoNight ASIC Miner Installation Guide

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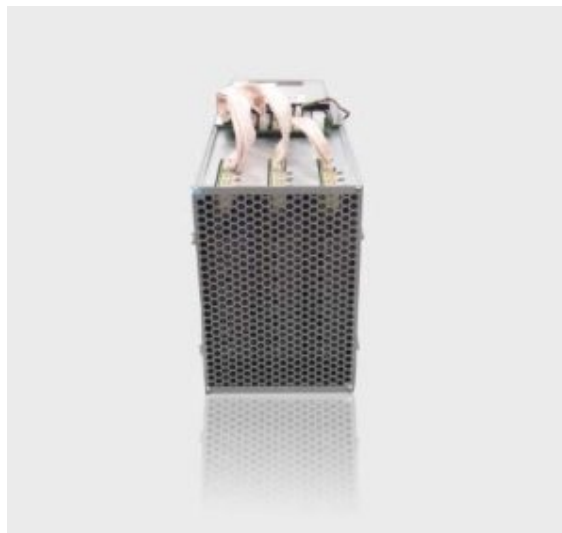
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## 1. Overview

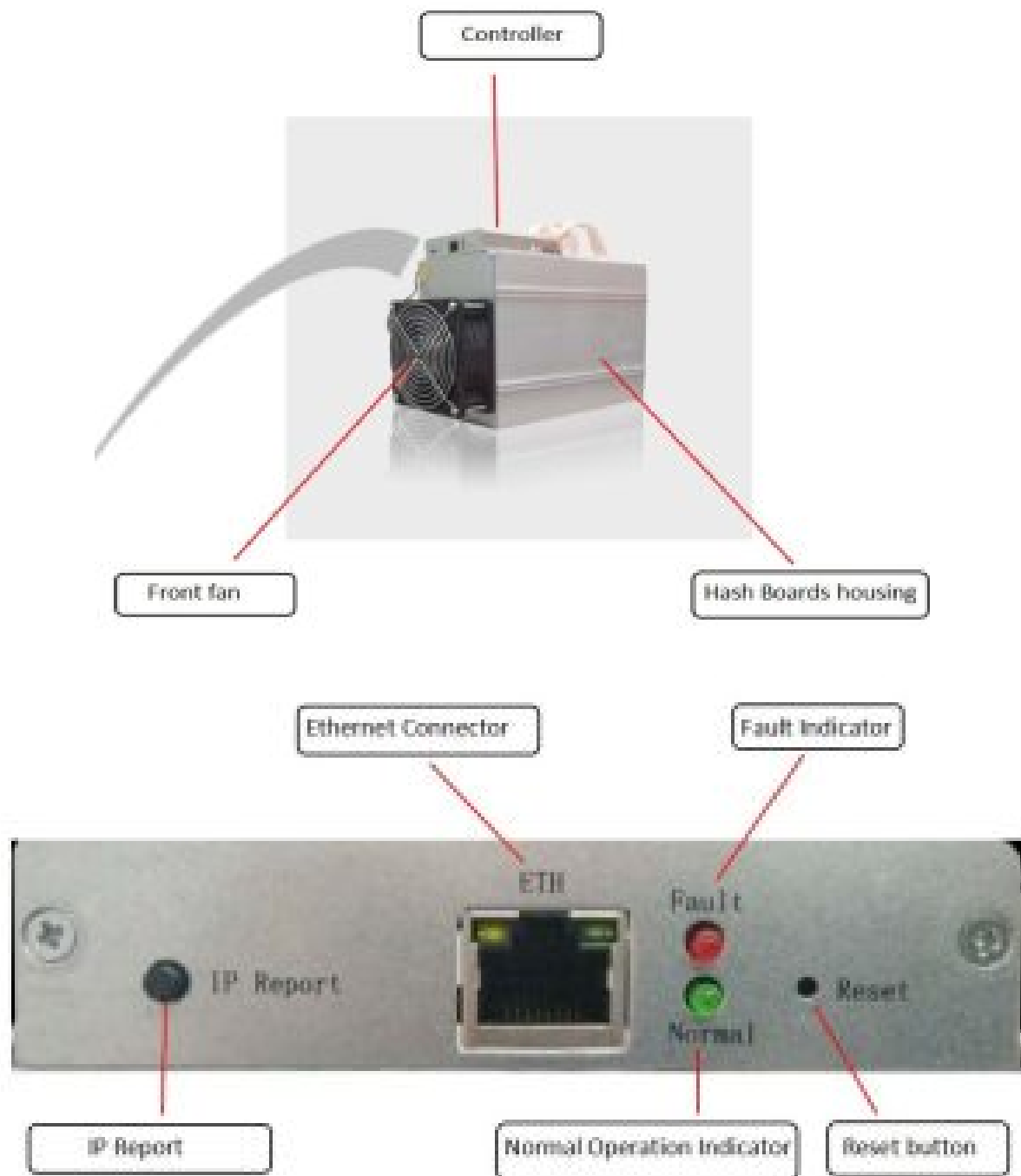
The X3 server is Bitmain's newest version in the X3 server series. It boasts a state-of-the-art BM1700 custom-made chip. All X3 servers are tested and configured prior to shipping to ensure easy set up.



You must provide your own ATX power supply.

### 1.1 X3 Server Components

The X3 server main components and controller front panel are shown in the following figure:



## 1.2 Specifications

Parameters of X3 Server		
NO.	Parameters	Value
1	Product model	X3
2	Hash chip type	BM1700
3	Total quantity of hash chips	180 pcs
4	Total quantity of hash boards	3 pcs
5	Total hash rate	220 KH/s
6	DC voltage input	11.60~13.00 V
7	DC current input @12V DC	38.6 A +7%
8	DC Power @12V DC input	465 W +7%
9	220VAC Power @25℃, 93% conversion efficiency of APW3	500 W +7%
10	220VAC Power efficiency @25℃ 93% conversion efficiency of APW3	2.27 J/KH +7%
11	Weight (without package)	5.5 kg
12	Operation temperature	0-40℃
13	Storage temperature	-40-85℃

14	Operation humidity	5%RH-95%RH, prevent condensation
15	Noise	76 dB
16	Networking connection mode	Ethernet Cable
17	Power connection mode	All three PCI-E ports are required to power the board. You can use one PSU to power multiple boards, but do not attempt to power one board with two PSUs.  If u are using more than one PSU, power up the PSU connected to the controller after you have powered up the other PSU(S).
18	Size (Length*Width*Height)	334mm*125mm*207mm

## 2. Connecting the Power Supply

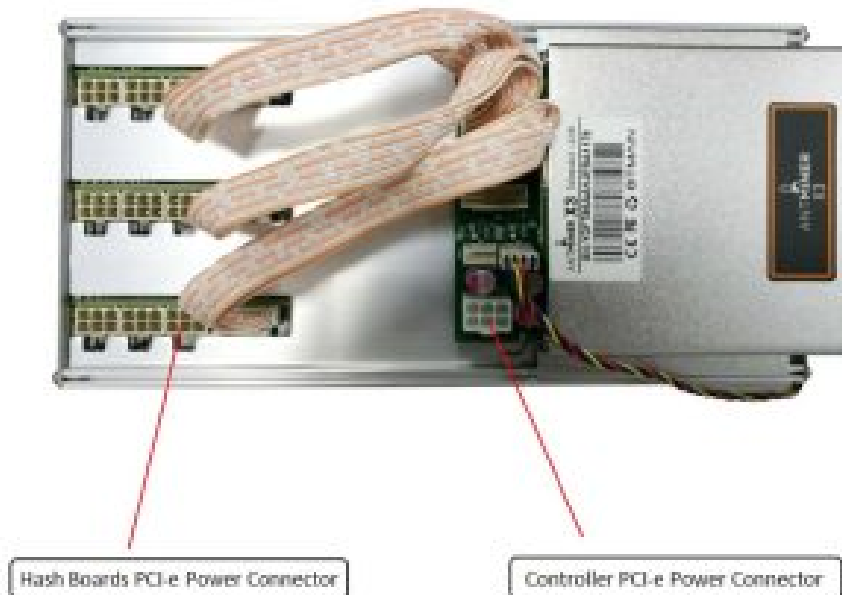
Ten PCI-e connectors are located at the top of the X3 server for connecting the PSU as follows:

- 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 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 X3 server, ensuring that each hash board is powered by the same PSU.



2. Connect a PSU power cable connector to the X3 PCI-e connector on the controller.
3. Connect the network cable to the ETH port.
4. To power up your X3 server, connect the PSUs to the power wall outlet.

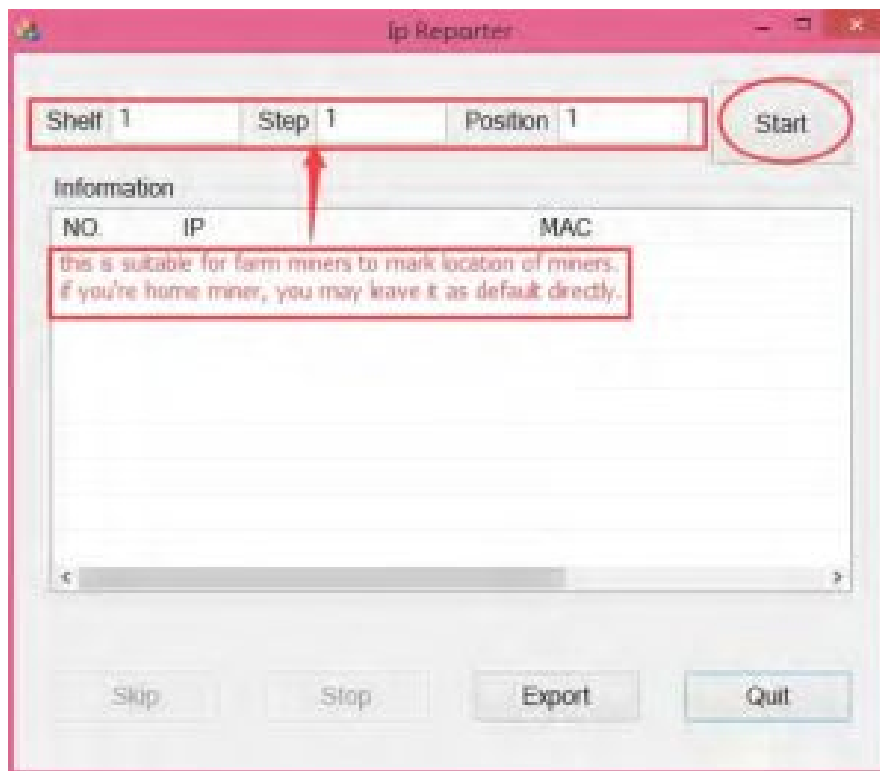
If you are using more than one PSU, power up the PSU connected to the controller AFTER you have Powered up the other PSU(s).

### 3. Setting Up the Server

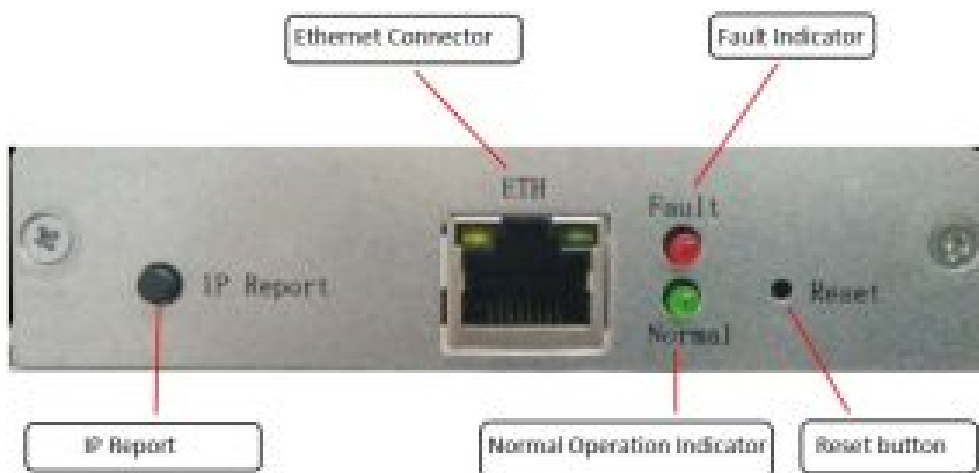
#### To set up the server:

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

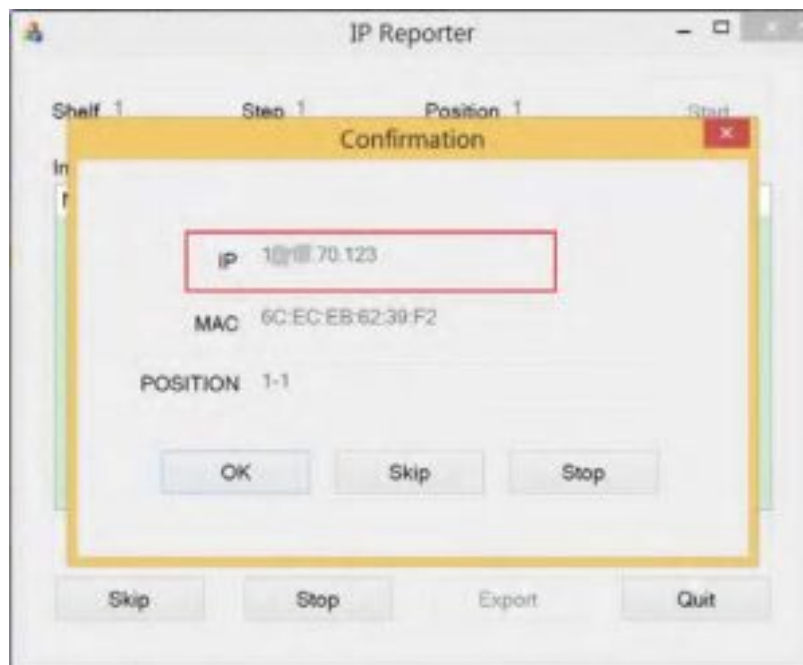
1. Go to the following site:  
<https://shop.bitmain.com/support.htm?pid=00720160906053730999PVD2K0vz0693>
2. Download the following file: IPReporter.zip
3. Extract the file.  
The default DHCP network protocol distributes IP addresses automatically.
4. Right-click IPReporter.exe and run it as Administrator.
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 Static IP address (optional).
11. Click Save & Apply.



## 4. Configuring the Server

### 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>  <p>The X3 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.

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



The screenshot shows the 'General Configuration' tab of the X3 server interface. It contains three sections for configuring mining pools (Pool 1, Pool 2, Pool 3). Each section has fields for 'URL', 'Worker', and 'Password'. At the bottom, there is a 'Save & Apply' button. A red box highlights the 'General Configuration' tab and the 'Save & Apply' button.

 Note: Fan speed can be adjusted, but we recommend keeping the default setting.

## 5. Monitoring Your Server

To check the operating status of your server:

- Click the status marked below.
- 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"> <li>● ○ - indicates OK</li> <li>● ✕ - indicates error</li> <li>● - - indicates dead</li> </ul>

The screenshot shows the 'Miner Status' web interface. The 'Miner Status' tab is selected and highlighted with a red box. The interface displays a summary of the mining operation with various metrics like Hashrate, Temperature, and Power. Below the summary, there are detailed tables for 'Chains' and 'Hashboards'.



Note: The X3 server is with fixed frequency 400 MHz. Firmware will stop running when the Temp(PCB) reaches to 80-85 °C or the Temp(chips) reaches to 125-135 °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

### 6.1 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 20180411.



## 6.2 Upgrading Your System

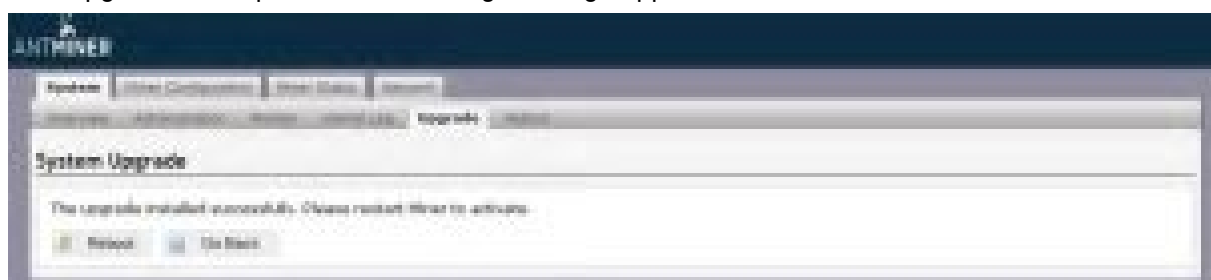
Make sure that the X3 server remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

**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 X3 server firmware can be upgraded and if yes, will then proceed to flash the image.
4. When the upgrade is completed, the following message appears:



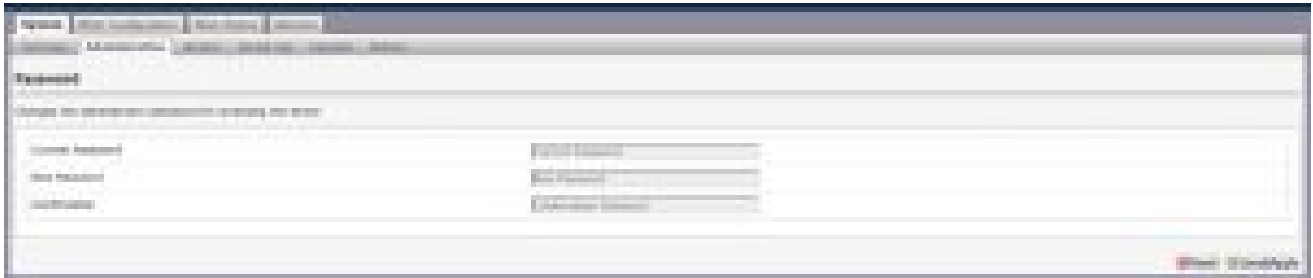
5. Click one of the following options:
  - Reboot - to restart the server with the new firmware.
  - Go Back - to continue mining with the current firmware. The server will load the new firmware next time it is

restarted.

### 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 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 your purchased the product.

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