

BITMAIN AntMiner 240-L L7 Server Installation Guide

Home » BITMAIN » BITMAIN AntMiner 240-L L7 Server Installation Guide 1





Contents

- 1 L7 Server Installation Guide
- 2 Overview
- 3 Setting up the Server
- 4 Configuring the Server
- **5 Monitoring Your server**
- **6 Administering Your Server**
- 7 Documents / Resources
 - 7.1 References
- **8 Related Posts**

L7 Server Installation Guide

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Overview

The L7 server is Bitmain's newest version in the current series. Power supply APW121417 is part of the L7 server. All L7 servers are tested and configured prior to shipping to ensure easy setup.



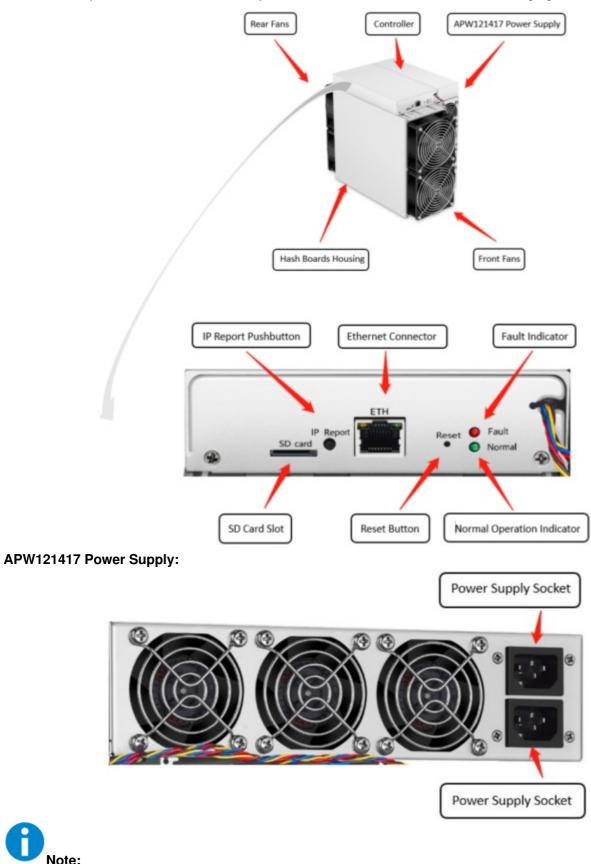


- 1. Please refer to the layout above to place your goods in usage in case of any damage.
- 2. The equipment must be connected to an earthed mains socket-outlet. The socket-outlet shall be installed near the equipment and shall be easily accessible.
- 3. The equipment has two power inputs, only by connecting those two power supply sockets simultaneously can the equipment run. When the equipment is powered off, be sure to power off all power inputs.
- 4. DO NOT remove any screws and cables tied to the product.

- 5. DO NOT PRESS the metal button on the cover.
- 6. Please note that the actual server shall prevail.

1.1 L7 Server Components

The main components and controller front panel of L7 servers are shown in the following figure:



1. Power supply APW121417 is part of the L7 server. For detailed parameters, please refer to the specifications below.

2. Additional two power cords are needed.

1.2 Specifications

Version: L7 Model No.: 240-L

Product Glance	Value
Version	L7
Model	240-L
Crypto Algorithm/Coins	Scrypt
Hashrate, MH / s	9500 ± 3%
power on wall@25°C, Watt	3420 ± 10%
power efficiency on wall @25°C, J/MH	0.36 ± 10%

Detailed Characteristics	Value			
Power Supply				
Power supply AC input voltage, Volt (1-1)	200-240			
Power supply AC Input Frequency Range, Hz	47-63			
Power supply AC Input current, Amp(1-2)	20(1-3)			
Hardware Configuration				
Network connection mode	RJ45 Ethernet 10/100M			
Server Size (Length*Width*Height, w/o package), mm(2-1)	370*195.5*290			
Server Size (Length*Width*Height, with the package), mm	570*316*430			
Net weight, kg (2-2)	13.5			
Gross weight, kg	15.0			
Environment Requirements				
Operation temperature, °C	0~40			
Storage temperature, °C	-20-70			
Operation humidity(non-condensing), RH	10~90%			
Operation altitude, m (3-1)	≤2000			

Notes:

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

- (1-2) Max condition: temperature 40°C, altitude 0m
- (1-3) Two AC input wires, 10A per wire
- (2-1) Including PSU size
- (2-2) Including PSU weight
- (3-1) When the server is used at an altitude from 900m to 2000m, the highest operating temperature decreases by
- 1 °C for every increase of 300m

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:

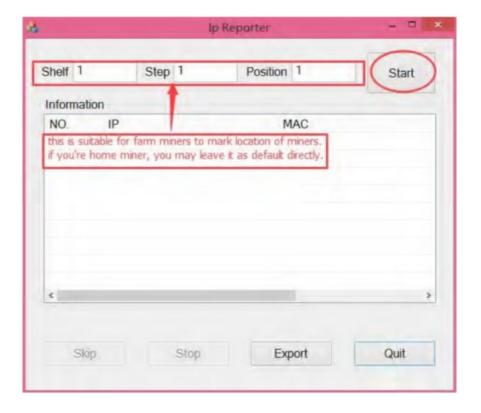
https://shop.bitmain.com/support.htm?pid=00720160906053730999PVD2K0vz0693

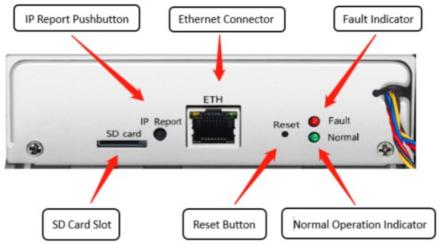
- 2. Download the following file: IPReporter.zip.
- 3. Extract the file.



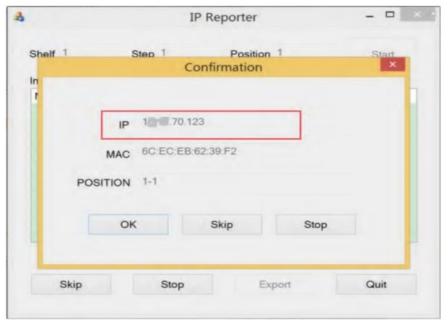
The default DHCP network protocol distributes IP addresses automatically.

- 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.

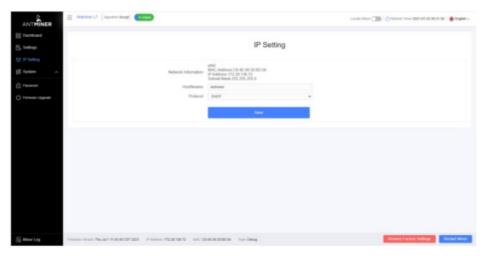




The IP address will be displayed in a window on your computer screen.

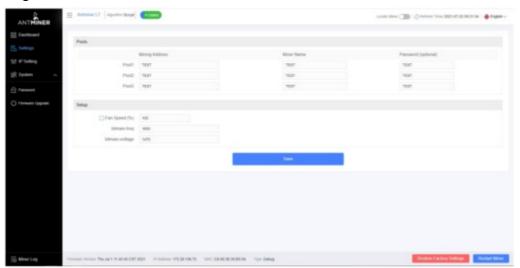


- 7. In your web browser, enter the IP address provided.
- 8. Proceed to log in using root for both the username and password.
- 9. In the Protocol section, you can assign a Static IP address (optional).
- 10. Enter the IP address, Subnet mask, gateway, and DNS Server.
- 11. Click "Save".
- 12. Click https://support.bitmain.com/hc/en-us/articles/360018950053 to learn more about gateway and DNS Server.



Setting up the Pool To configure the server:

1. Click the **Settings** marked below. Note:





Fan speed percentage can be adjusted, but we recommend keeping the default setting. The server will adjust the fan speed automatically if the fan speed percentage has yet been selected.

2. Set the options according to the following table:

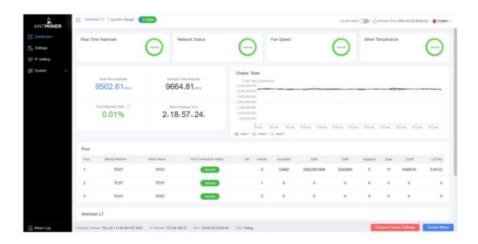
Option	Description
Mining address	Enter the address of your desired pool. The L7 servers can be set up with three mining pools, with decreasing priority fron priority will only are used if all higher priority pools are offline.
Name	Your worker ID on the selected pool.
Password (optional)	The password for your selected worker.

3. Click Save after the configuration.

Monitoring Your server

To check the operating status of your server:

1. Click the dashboard marked below to check the server status (taking L7 9500M as an example).





The L7 server (9500M) is with a fixed frequency of 1850 MHz. The firmware will stop running when the Temp (Outlet) reaches 80 °C there will be an error message "over max temp, PCB temp (real-time temp)" shown on the bottom of the kernel log page. Meanwhile, the server temperature on the dashboard interface turns abnormal and shows "Temp is too high".

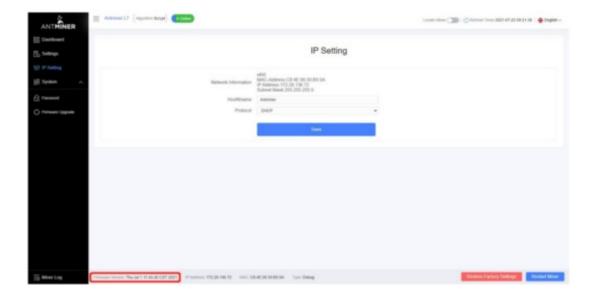
2. Monitor your server according to the descriptions in the following table:

Option Description		
Number of chips	A number of chips were detected in the chain.	
Frequency	ASIC frequency setting.	
Real Hashrate	Real-time Hashrate of each hash board (GH/s).	
Inlet Temp	The temperature of the inlet (°C).	
Outlet Temp	The temperature of the outlet (°C).	
Chip state	One of the following statuses will appear: •The Green Icon – indicates normal •The Red Icon– indicates abnormal	

Administering Your Server

5.1 Checking Your Firmware Version To check your firmware version:

- 1. Enter the backstage of your server, and find the firmware version on the bottom.
- 2. **Firmware Version** displays the date of the firmware your server uses. In the examples below, the server is using firmware version 20210701.



5.2 Upgrading Your System

Make sure that the L7 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 Firmware Upgrade.

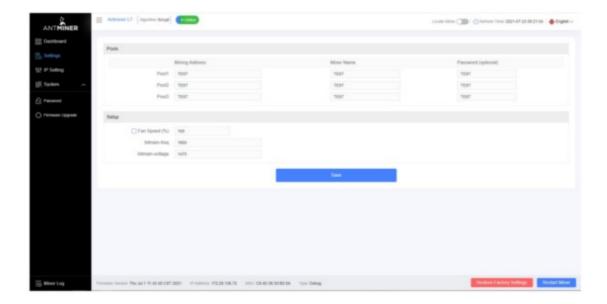


2. For Keep Settings:

- Select "keep settings" to keep your current settings (default).
- Unselect "keep settings" to reset the server to default settings.



3. When the upgrade is completed, restart the server and it will turn to the setting page.



5.3 Modifying Your Password To change your login password:

- 1. In System, click the Password tab.
- 2. Set your new password, then click Save.



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.

Environmental Requirements

Please run your server in accordance with the following requirements

- 1. Basic Environmental Requirements:
- 1.1. Climatic Conditions:

Description	Requirement	
Operating Temperature	0-40°C	
Operating Humidity	10-90%RH (non-condensing)	
Storage Temperature	-20-70°C	
Storage Humidity	5-95%RH (non-condensing)	
Altitude	<2000m	

1.2. Site Requirements of the Server Running Room:

Please keep the server running room away from industrial pollution sources:

For heavy pollution sources such as smelters and coal mines, the distance should be more than 5km.

For moderate pollution sources such as chemical industries, rubber, and electroplating industries, the distance should be more than 3.7km.

For light pollution sources such as food factories and leather processing factories, the distance should be more than 2km.

If unavoidable, the site should be chosen in the perennial upwind direction of the pollution source.

Please do not set your location within 3.7km from the seaside or the salt lake. If unavoidable, it should be built as airtight as possible, equipped with air conditioning for cooling.

1.3. Electromagnetic Environmental Conditions:

Please keep your site away from transformers, high-voltage cables, transmission lines, and high-current equipment, for example, there should be no high-power AC transformers (>10KA) within 20 meters, and no high-voltage power lines within 50 meters.

Please keep your site away from high-power radio transmitters, for example, there should be no high-power radio transmitters (>1500W) within 100 meters.

2. Other Environmental Requirements

The server running room shall be free of explosive, conductive, magnetically conductive, and corrosive dust. The requirements of mechanical active substances are shown below:

2.1 Requirements of Mechanical Active Substances

Mechanical Active Substance	Requirement
Sand	<= 30mg/m3
Dust (suspended)	<= 0.2mg/m3
Dust (deposited)	<=1.5mg/m2h

2.2 Requirements of Corrosive Gas

Corrosive Gas	Unit		Concentration	
H2S	ppb	<3	<3	
SO2	ppb	<1	<10	
Cl2	ppb	<1	<1	
NO2	ppb	<5	<50	
HF	ppb	<1		
NI-b	ppb	<5	<500	
3	ppb	<2		

Note: ppb (part per billion) refers to the unit of concentration, part per billion. 1ppb stands for the volume ratio of

Regulations:

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 Households 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.



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<u>BITMAIN AntMiner 240-L L7 Server</u> [pdf] Installation Guide AntMiner 240-L, L7 Server, AntMiner 240-L L7 Server

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Manuals+,