

BITMAIN AntMiner S9 Mining Machine Installation Guide

Home » BITMAIN » BITMAIN AntMiner S9 Mining Machine Installation Guide 🖔

Contents

- 1 BITMAIN AntMiner S9 Mining
- **Machine**
- 2 Overview
- **3 L7 Server Components**
- 4 APW121417 Power Supply:
- **5 Specifications**
- 6 Setting up the Server
- 7 Configuring the Server
- **8 Monitoring Your server**
- 9 Administering Your Server
- 10 Documents / Resources
 - 10.1 References
- 11 Related Posts

ANTMINER

BITMAIN AntMiner S9 Mining Machine



Overview

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





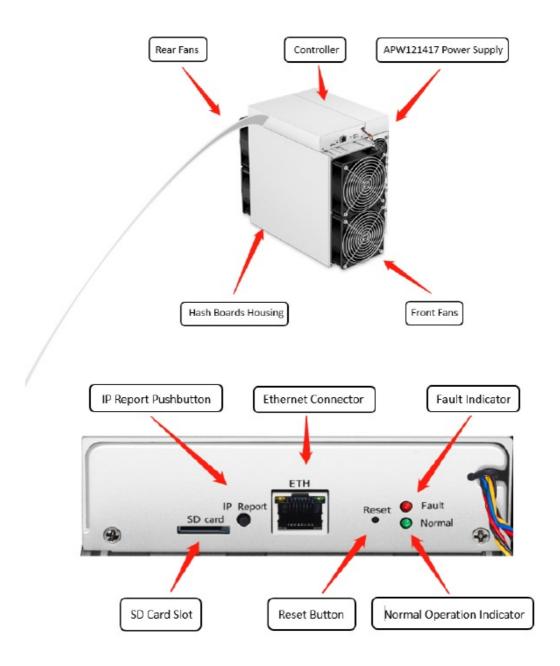
Front View Back View

Caution:

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

L7 Server Components

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



APW121417 Power Supply:



Note:

- 1. Power supply APW121417 is part of L7 server. For detailed parameters, please refer to the specifications below.
- 2. Additional two power cords are needed.

Specifications

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 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

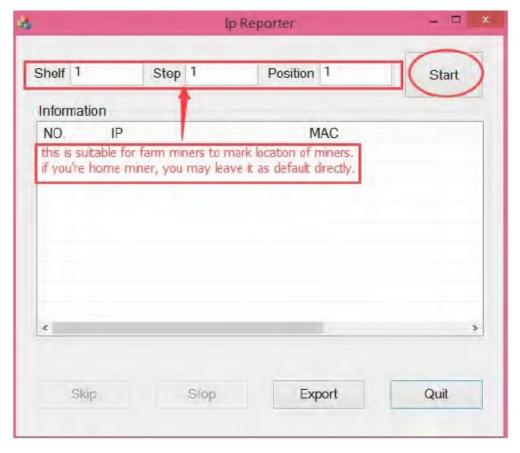
Setting up the Server

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

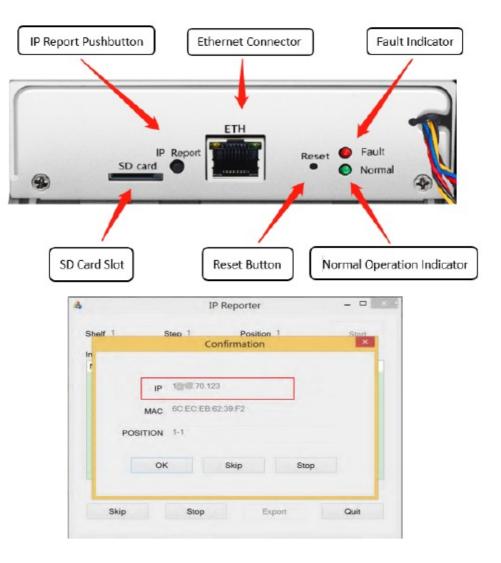
- Go to the following site: https://shop.bitmain.com/support.htm? pid=00720160906053730999PVD2K0vz0693
- 2. Download the following file: IPReporter.zip.
- 3. Extract the file.

The default DHCP network protocol distributes IP addresses automatically.

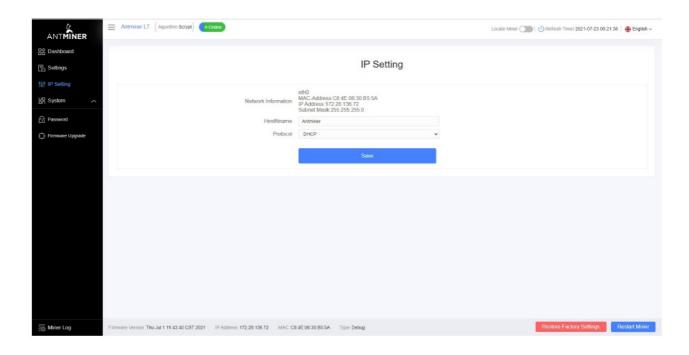
- 4. Right-click IPReporter.exe and run it as Administrator.
- 5. Select one of the following options:
 - Shelf, Step, Position suitable for farm servers to mark the location of the servers.
 - Default suitable for home servers.
- 6. Click Start.



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



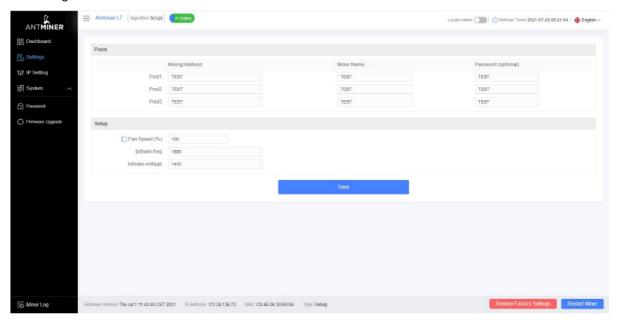
- 7. In your web browser, enter the IP address provided.
- 8. Proceed to login using root for both the username and password.
- 9. In the Protocol section, you can assign a Static IP address (optional).
- 10. Enter the IP address, Subnet mask, gateway and DNS Server.
- 11. Click "Save".
- 12. Click https://support.bitmain.com/hc/en-us/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



Configuring the Server

Setting up the Pool

1. Click Settings marked below.



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

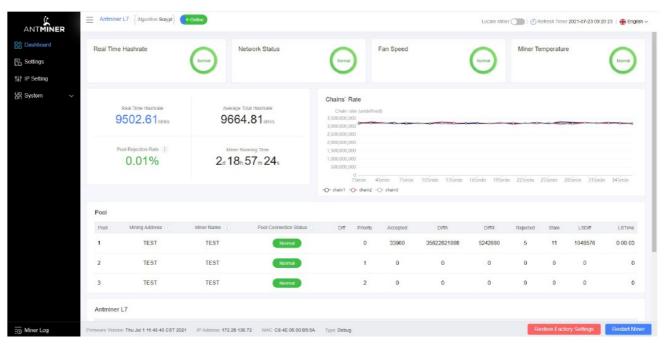
2. Set the options according to the following table:

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 from the
	e first pool (pool 1) to the third pool (pool 3). The pools with low priority will only be us ed 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

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



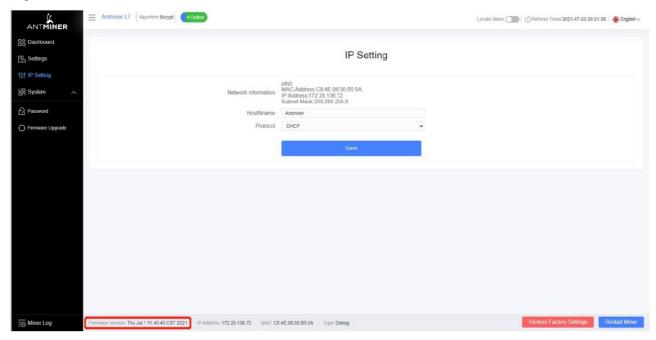
Note: The L7 server (9500M) is with a fixed frequency of 1850 MHz. The firmware will stop running when the Temp (Outlet) reaches to 80°C there will be an error message "over max temp, PCB temp (real-time temp)" shown on the bottom of the kernel log page. Meanwhile, the server temperature on the dashboard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

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

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

Administering Your Server

- 1. Enter the backstage of your server, 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.



Upgrading Your System

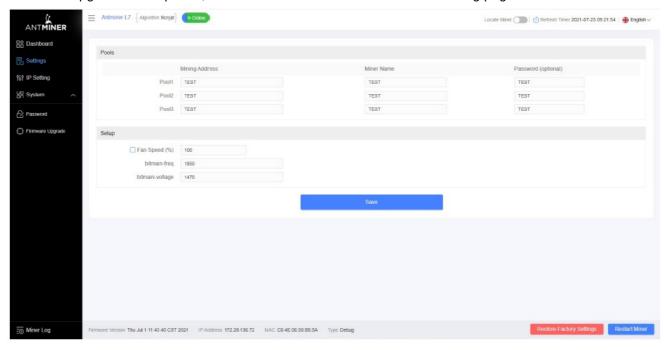
Make sure that the L7 server remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

To upgrade the server's firmware:

1. In System, click Firmware Upgrade.

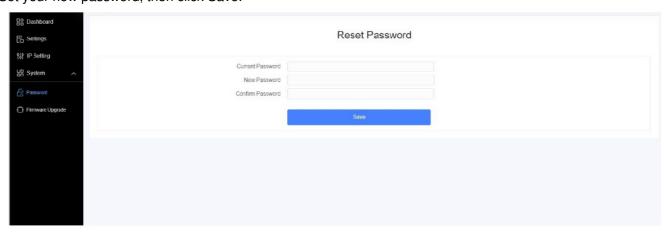


- 2. For Keep Settings:
 - Select "keep settings" to keep your current settings (default).
 - Unselect "keep settings" to reset the server to default settings.
- 4. When the upgrade is completed, restart the server and it will turn to the setting page.



Modifying Your Password To change your login password:

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



- 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

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

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.

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.

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:

Requirements of Mechanical Active Substances

Mechanical Active Substance	Requirement
Sand	<= 30mg/m ³
Dust (suspended)	<= 0.2mg/m ³
Dust (deposited)	<=1.5mg/m ² h

Requirements of Corrosive Gas

Corrosive Gas	Unit	Concentration
H2S	ppb	< 3
SO2	ppb	< 10
CI2	ppb	<1
NO2	ppb	< 50
HF	ppb	<1
NH3	ppb	< 500
O3	ppb	< 2

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

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.

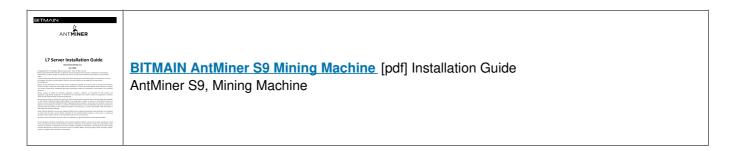
Note:

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 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 you purchased the product.

Documents / Resources



References

- K BITMAIN
- <u>L BITMAIN</u>

Manuals+, home privacy