BITMAIN



L9 Server Installation Guide

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1. Overview

The L9 server is one of the Bitmain's newest version. Power supply APW171215 is part of L9 server. All L9 servers are tested and configured prior to shipping to ensure easy set up.

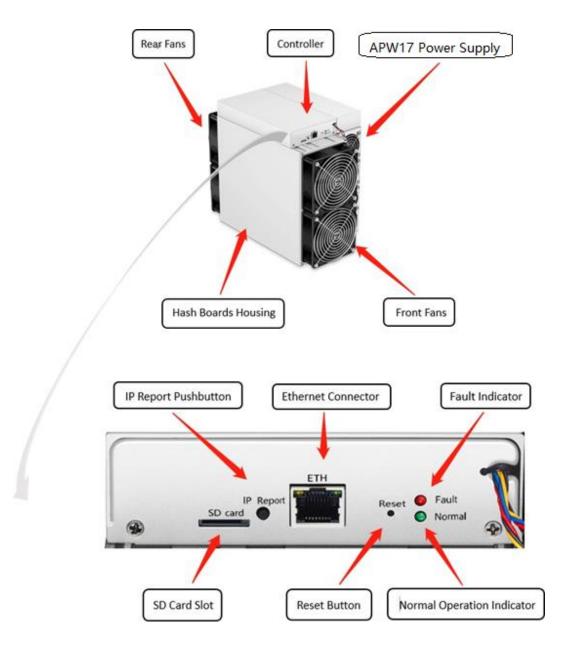


Caution:

- 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.
- $5.\ \text{DO}\ \text{NOT}\ \text{PRESS}$ the metal button on the cover.
- 6. Please note that the actual server shall prevail.

1.1 L9 Server Components

The main components and controller front panel of L9 servers are shown in the following figure:





APW171215 Power Supply:





Note:

- 1. Power supply APW171215 is part of the L9 server. For detailed parameters, please refer to the specifications below.
- 2. One ANTWIRE-20SP power cord is needed and should be connected to PDU.



1.1 Specifications

Model: L9

Version: 10

Product Glance		Value					
Model		L9					
Version		10					
Crypto algorithm coins	S	Scrypt LTC+DOGE+BEL					
Sub	17G	16G	15G				
Typical Hashrate, GH/s	17	17 16 15					
Power on wall @25°C, Watt	3570	3570 3360 3150					
Power efficiency on wall @25°C, J/G	210	210 210 210					

Detailed Characteristics	Value
Single-Phase A	AC Power Supply
Input voltage, Volt ⁽¹⁻¹⁾	220~277V
Input Frequency Range, Hz	50-60
Input current, Amp	20
Hardware	Configuration
Network connection mode	RJ45 Ethernet 10/100M
Server Size (Length*Width*Height, w/o package), mm	400*195*290
Server Size (Length*Width*Height, with package), mm	570*316*430
Net weight, kg	14.2
Environment	Requirements
Operation temperature, °C	-20~45
Storage temperature, °C	-40~70
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.
- (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.



1. Setting up the Server

2. 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://file12.bitmain.com/shop-product/firmware/IP%20Reporter.zip

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

G

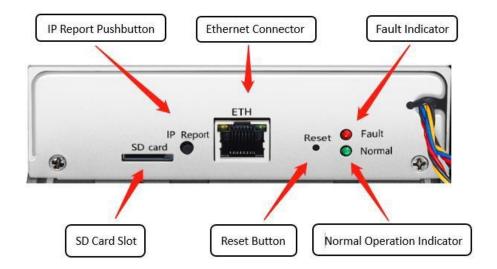
The default DHCP network protocol distributes IP addresses automatically.

- 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.

Shelf 1	Step	1	Position	1	Start
Information		-			
	IP			IAC	
this is suitable	e for farm mi	ners to ma	ark location of i	miners.	
ii youre nom	ie miner, you	may leave	e it as default i	urecuy.	
<					
<					



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.

	IP	P Reporter	
Shelf 1	Step 1	Position 1	Start
In	Co	nfirmation	×
T			
	IP 1010.70.12	3	
	MAC 6C:EC:EB:6	2:39:F2	
PC	SITION 1-1		
	ок	Skip Stop	
1			
		_	10
Skip	Stop	Export	Quit

- 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 Protocol section, you can assign a Static IP address (optional).
- 11. Enter the IP address, Subnet mask, gateway and DNS Server.
- 12. Click "Save".
- 13. Click <u>https://support.bitmain.com/hc/en-us/articles/360018950053</u> to learn more about gateway and DNS Server.



L9 Server Installation

	Antminer L9 {Algorithm Scrypt}		Locate Miner 🕥 😮 Refresh Timer 2024/07-12 15:57:34 🏶 English 🗸
Dashboard			
E Settings		IP Setting	
\$å IP Setting			
¦¦R System ∨	Network information	eth0 MAC-Address:F8.82.42.5D.5D.C6 IP Address: Subnet Mask:255.255.255.0	
	HostNname	Antminer	
	Protocol	DHCP	
		Save	



3. Configuring the Server

Setting up the Pool

To configure the server:

1. Click Settings as below.

Password (optional)

2. Set the options according to the following table:

Note:

1. Fan speed percentage can't be adjusted, we recommend to keep the default setting. The server will adjust the fan speed automatically.

2. There are two working modes of L9 server: Normal mode and Sleep mode. The server enters the sleep mode under the condition that the control board is powered while hashboards are not powered.

Option	Description
Mining address	Enter the address of your desired pool. The L9 servers 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.
Name	Your worker ID on the selected pool.
Password (optional)	The password for your selected worker.

3. Click Save after the configuration.



4. Monitoring Your Server

To check the operating status of your server:

1. Click dashboard marked below to check the server status (taking L9 16G as example).

Antminer L9	Algorithm Scrypt							Locate M	iner 🔵 🕑 I	Refresh Timer	2024-07-12 15:5	6:27 🛛 🖶 English
Real Time Ha		Network Status	Normal	Fan Speed				Miner Temp	erature			Normal
×	Real Time Historate 17.17 GHs Pool Rejection Rate 0.16%	Average fotal Hashrate 16.1 Carls More fluoring Time 2.3 On 12 m 47s	Chains' Rate			No data y	ett Data is currently un	availabio				
Pool												
Pool	Mining Address ()	Miner Name ①	Pool Connection Status ()	Diff	Priority	Accepted	DiffA	DiffR	Rejected	State	LSDIff	LSTime
1	stratum+tcp://stratum-ltc.antpool.com:88	188	Normal	4194304.0000	0	10301	43049091072	67108864	16	10	4194304	0:0:15
2			Abnormal	0.0000	1	0	0	0	0	0	0	0
3			Abnormal	0.0000	2	0	0	0	0	0	0	0
Antminer L9												
Hash Board	Number of C	hips Hardware Error	Frequency	Real Time Hashrate		Theoret	ical HashRate	Inlet Temp	0	utlet Temp		Chip state
1		110 57566	1225	5.41 GH/s		monee	5.5 GH/s	61		76		Normal
2		110 69932	1225	5.34 GH/s			5.5 GH/s	61		74		Normal 📕
3		110 90045	1225	5.33 GH/s			5.5 GH/s	61		76		Normal 📕
Fan		Fan1 Speed		Fan2 Speed			Fan3 Speed			Fan4	Speed	
Speed(r/min))	6930		6970			7000			70	00	

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).
Chip state	One of the following statuses will appear:
	The Green Icon - indicates normal
	The Red Icon- indicates abnormal



5. Administering Your Server

5.1 Checking Your Firmware Version

To check your firmware version:

- 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 20240708.

	Antminor L9	{ Algorithm Scrypt }								Locate M	iner 🚺 🕚 P	lefresh Timer	2024-07-12 15:5	6.27 🖶 English 🗸
B Dashboard - Settings 않다 IP Setting	Real Time Has	shrate	Normal	Network Status	Roma	Fan Speed			Comm	Miner Temp	erature			Norma
k∰ System ∨		Real Time Hashcale 17.17 GHs Pool Registrion Rate 0.16%		Average Total Hashnate 16.1 Gives Motor Running Tene 2d On 12m 47s	Chains' Rate			No data y	etl Data is currently una	wailable				
	Pool	Mining Address ①		Miner Name (1)	Pool Connection Status ()	Diff	Priority	Accepted	DiffA	DiffR	Rejected	Stale	LSDiff	LSTime
	1	stratum+tcp://stratum-ttc.antpool.	com:8888		Normal	4194304.0000	0	10301	43049091072	67108864	16	10	4194304	0:0:15
	2				Abnormal	0.0000	1	0	0	0	0	0	0	0
	3				Abnormal	0.0000	2	0	0	0	0	0	0	0
	Antminer L9													
	Hash Board	Num	ber of Chips	Hardware Error	Frequency	Real Time Hashrate		Theoreti	cal HashRate	Inlet Temp	0	itlet Temp		Chip state
	1		110	57566	1225	5.41 GH/s			5.5 GH/s	61		76		Normal
	2		110	69932	1225	5.34 GH/s			5.5 GH/s	61		74		Normal 🛑
	3		110	90045	1225	5.33 GH/s			5.5 GH/s	61		76		Normal
	Fan			Fan1 Speed		Fan2 Speed			Fan3 Speed			Fan4	Speed	
	Speed(r/min)			6930		6970			7000			70	00	
E Miner Log	Firmware Version Mo	n Jul 8 16:17:09 CST 2024 IP Address	MAC F8:82:4	2:5D:5D:C6 Type Release							R	store Facto	ry Settings	Restart Miner

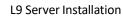
5.2 Upgrading Your System

Make sure that the L9 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.

	E Adminer L9 (Aporton Scrypt) CRetesh Timer 2024-07-12 15 58-45 🖶 English 🗸
문 Dashboard 문 Settings 해 IP Setting	Firmware Upgrade
B System ^	Firmware File
Firmware Upgrade	Update





2. For Keep Settings:

■ Select "keep settings" to keep your current settings (default).

■ Unselect "keep settings" to reset the server to default settings.

- 3. Click the button and navigate to the upgrade file. Select the upgrade file, then click **Update**.
- 4. 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.

ANTMINER	📃 Anteminer L9 (Algorithm Scopp) 🚺 Online
Dashboard	
E Settings	Reset Password
¢å∲ IP Setting	
紧 System ^	Current Password New Password
Password	Confirm Password
Eirmware Upgrade	Sao



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	-20-45°C		
Operating Humidity	10-90%RH (non-condensing)		
Storage Temperature	-40-70℃		
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/m ³
Dust (suspended)	<= 0.2mg/m ³
Dust (deposited)	<=1.5mg/m ² h

2.2 Requirements of Corrosive Gas

Corrosive Gas	Unit	Concentration					
H ₂ S	ppb	< 3					
SO ₂	ppb	< 10					
Cl ₂	ppb	< 1					
NO ₂	ppb	< 50					
HF	ppb	< 1					
NH ₃	ppb	< 500					
O ₃	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 handling 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.

台湾ROHS:

	有害物質									
單元	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr+6)	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)				
外殼	0	0	0	0	0	0				
電路板組件	—	0	0	0	0	0				
其他線材	—	0	0	0	0	0				
備考 1. "超出 0.1 wt %"及"超出 0.01 wt %"係指限用物質之百分比含量超出百分比含量基準 值。 備考 2. "〇"係指該項限用物質之百分比含量未超出百分比含量基準值。 備考 3. "一"係指該項限用物質為排除項目。										