



BITMAIN S9j Server User Manual

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S9j Server
Installation Guide
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Overview

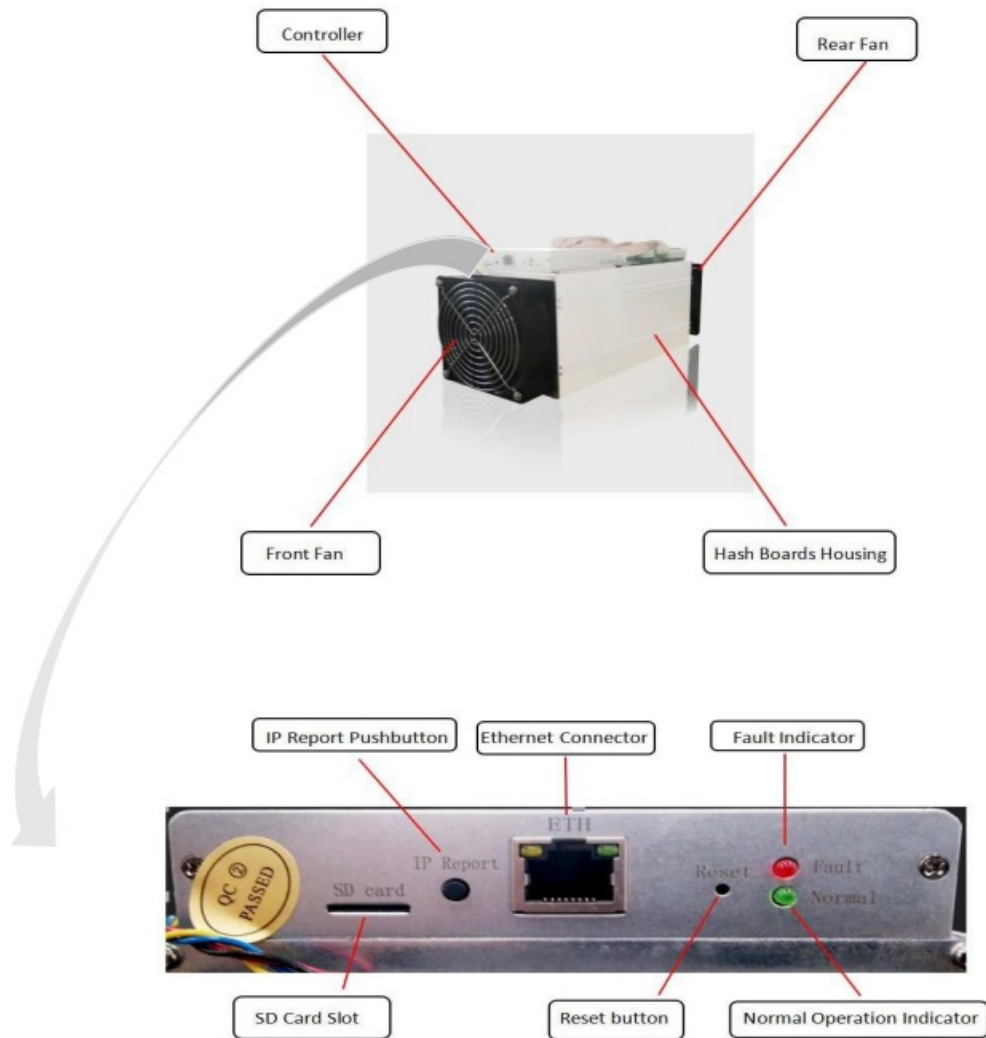
The S9j server is one of the products in Bitmain's S9 server series. All S9j servers are tested and configured prior to shipping to ensure easy set up.



You must provide your own ATX power supply.

1.1 S9j Server Components

The S9j server main components and controller front panel are shown in the following figure:



1.2 Specifications

Product Glance	Value
Product model	S9j-14.5T
Hashrate, TH/s	14.50±5%
Reference power on wall, Watt	1350±10%
Reference power efficiency on wall @25°C, J/TH	93.12±10%
Adapted AC/DC output requirement, Watt / Volt	1650 / 12.00

Connecting the Power Supply

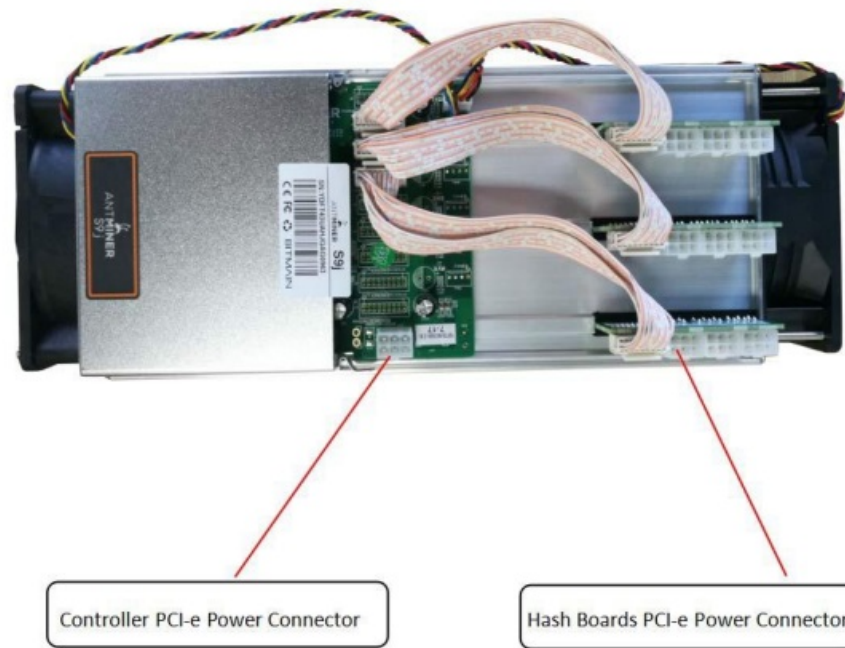
Ten PCI-e connectors are located at the top of the S9j server for connecting the PSU as follows:

- Nine PCI-e connectors for the hash boards. Each hash board has 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 S9j server, ensuring that each hash board is powered by the same PSU.



2. Connect a PSU power cable connector to the S9j PCI-e connector on the controller.
3. Connect the network cable to the ETH port.
4. To power up your S9j 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).

Setting Up the Server

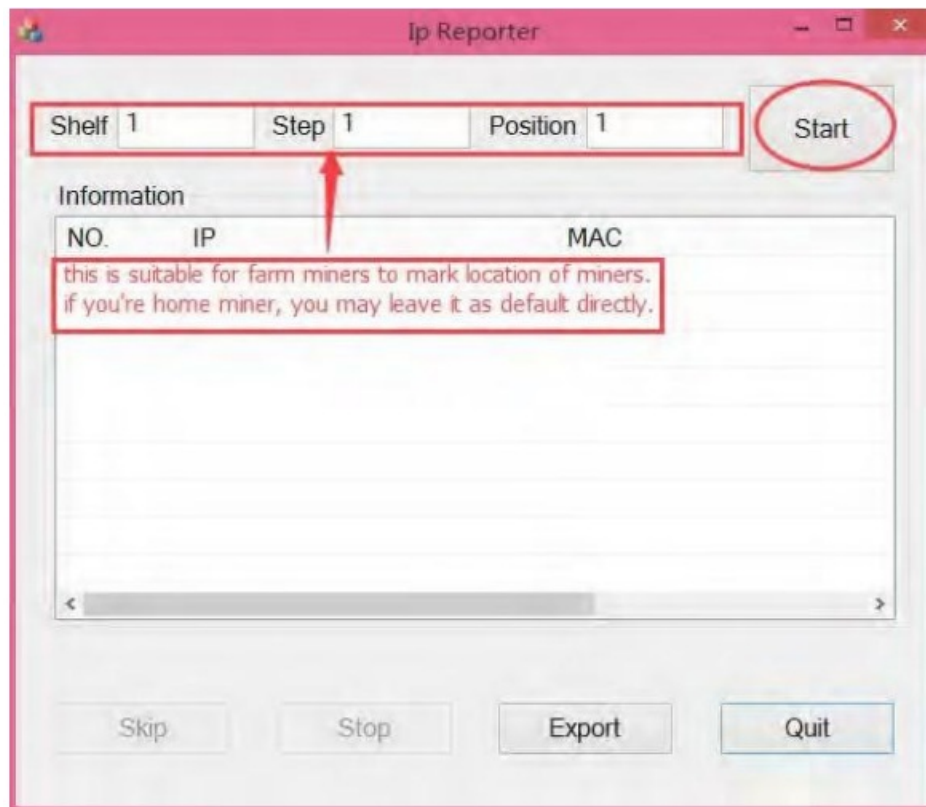
To set up the server:

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

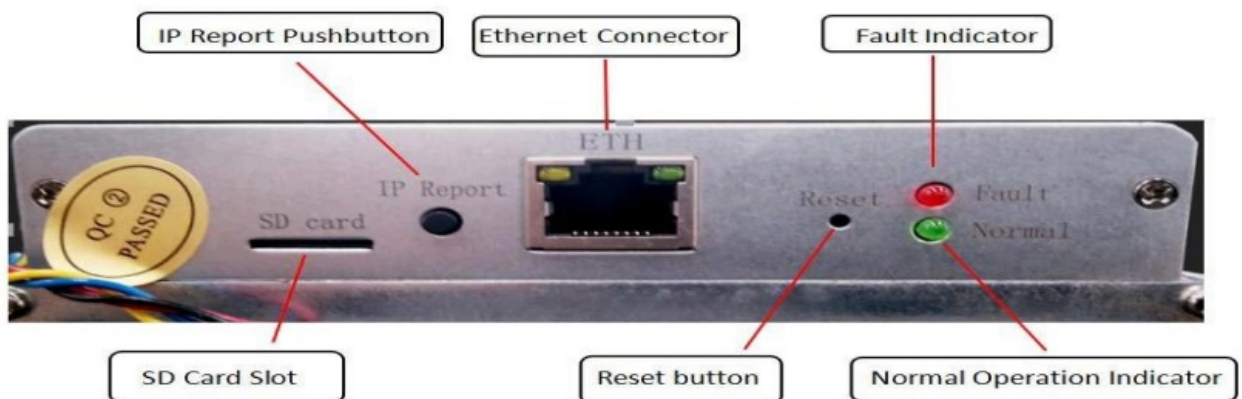
1. Go to the following site: <https://shop.bitmain.com/support/download>
2. Choose 'Others' and download the following file: IPReporter.zip
3. Extract the file.

The default DHCP network protocol distributes IP addresses automatically.

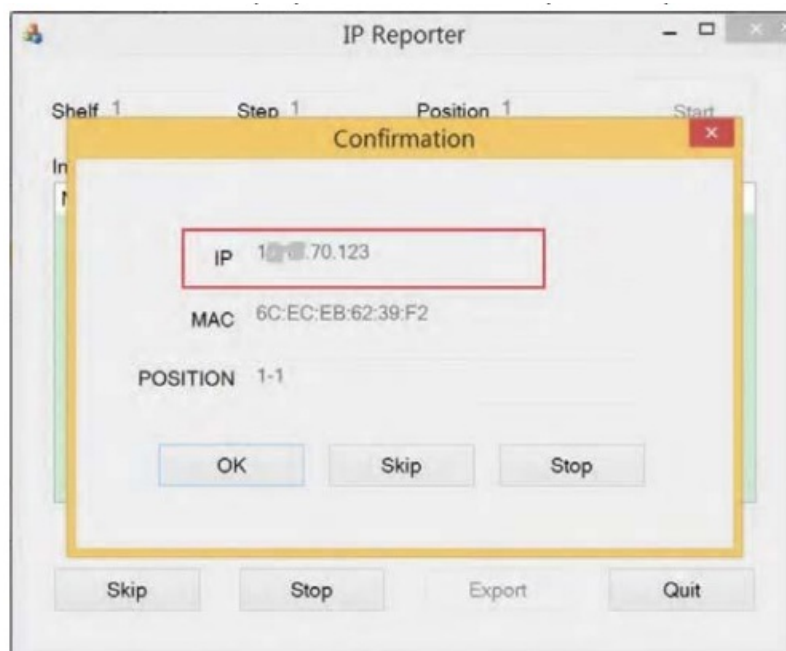
4. Right-click IPReporter.exe and run it as Administrator.
5. Select one of the following options:
 - Shelf, Step, Position – suitable for farm servers to mark the location of the servers.
 - Default – suitable for home servers.
6. Click Start.



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 r o o t for both the username and password.

10. In the Network section, you can assign a DHCP IP address (optional).

11. Click Save & Apply.

System Miner Configuration Miner Status **Network**

Settings Diagnostics

Network Settings

Network setup for Miner

Status **MAC Address:** C4:F3:12:67:7B:17
IP: 192.168.1.101
Netmask: 255.255.255.0

eth0

Hostname: antminer

Protocol: DHCP

IP Address:

Netmask:

Gateway:

DNS Servers:

Reset Save&Apply

Configuring the Server

Setting Up the Pool

To configure the server:

1. click General Settings.

Ant Miner

192.168.32.92/cgi-bin/minerConfiguration.cgi

System **Miner Configuration** Miner Status Network

General Settings

Miner General Configuration

Pool 1

URL: solo.antpool.com:3333

Worker: antminer_1

Password: 123

Pool 2

URL: stratum.antpool.com:3333

Worker: antminer_1

Password: 123

Pool 3

URL: stratum+tcp://cn.ss.btc.com:3333

Worker: antminer_1

Password: 123

Reset Save&Apply

2. Set the options according to the following table:

Option	Description
Pool URL	<p>Enter the URL of your desired pool.</p> <p> The S9j 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>
Worker	Your worker ID on the selected pool.
Password	The password for your selected worker.

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

Monitoring Your server

To check the operating status of your server:

1. Click the status marked below.

The screenshot shows the AntMiner web interface. The 'Miner Status' tab is selected and highlighted with a red box. The interface displays a summary of mining statistics and a detailed table of pool connections.

Elapsed	GH/S(RT)	GH/S(avg)	FoundBlocks	LocalWork	Utility	WU	BestShare
3m58s	13,700.96	13,848.28	0	12,099	2.77	181,738.49	24408889


Pool	URL	User	Status	DIT	GetWorks	Priority	Accepted	DIT1#	DIT2#	DIT3#	DIT4#	DIT5#	Rejected	Discarded	Stale	LSDIT	LSTime
0	stratum+tcp://pool.antpool.com:3333	antminer_1	Alive	65.5K	7	0	11	0	720,896	0	0	0	0	122	0	65.535	0:00:02
1	stratum+tcp://stratum.antpool.com:3333	antminer_1	Dead		0	1	0	0	0	0	0	0	0	0	0	0	Never
2	stratum+tcp://cn.ss.btc.com:3333	antminer.1	Dead		0	2	0	0	0	0	0	0	0	0	0	0	Never
Total					7		11		720,896					122			
HW									0								

Chain#	ASIC#	Frequency(avg)	GH/S(ideal)	GH/S(RT)	HW	Temp(Chip1)	Temp(Chip2)	ASIC status
6	63	599.46	4,214.12	4,242.25	0	-	75	00000000 00000000 00000000 00000000 00000000 00000000 00000000
7	63	647.11	4,643.67	4,706.60	0	-	68	00000000 00000000 00000000 00000000 00000000 00000000 00000000
8	63	653.17	4,643.53	4,792.11	0	-	70	00000000 00000000 00000000 00000000 00000000 00000000 00000000
Total	189	633.24	13,501.32	13,700.96				

Fan#	Fan1	Fan2	Fan3	Fan4	Fan5	Fan6	Fan7	Fan8
Speed (r/min)	0	0	4,440	0	0	4,920	0	0

2. 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">● O - indicates OK● X - indicates error● - - indicates dead

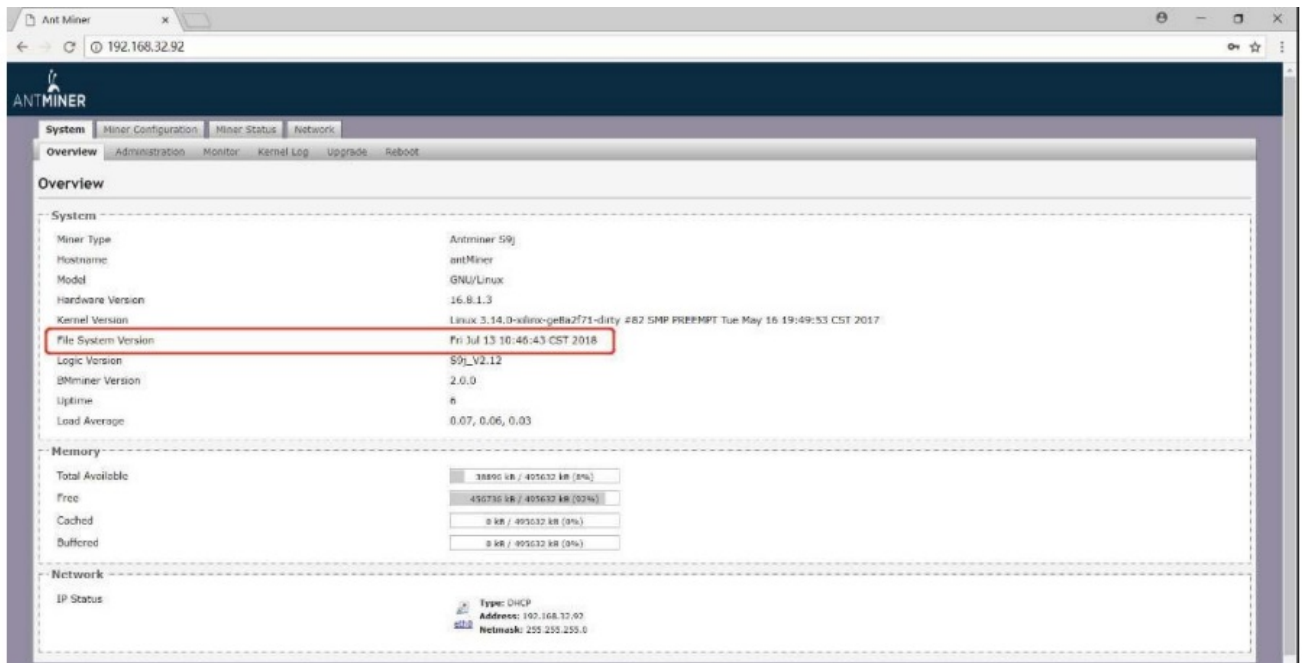
 Note: The S9j server is with automatic frequency adjustment. Firmware will stop running when the Temp(PCB) reaches to 95 C, there will be an error message “Fatal Error: Temperature is too high!” shown in the bottom of kernel log page.

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 20180713.

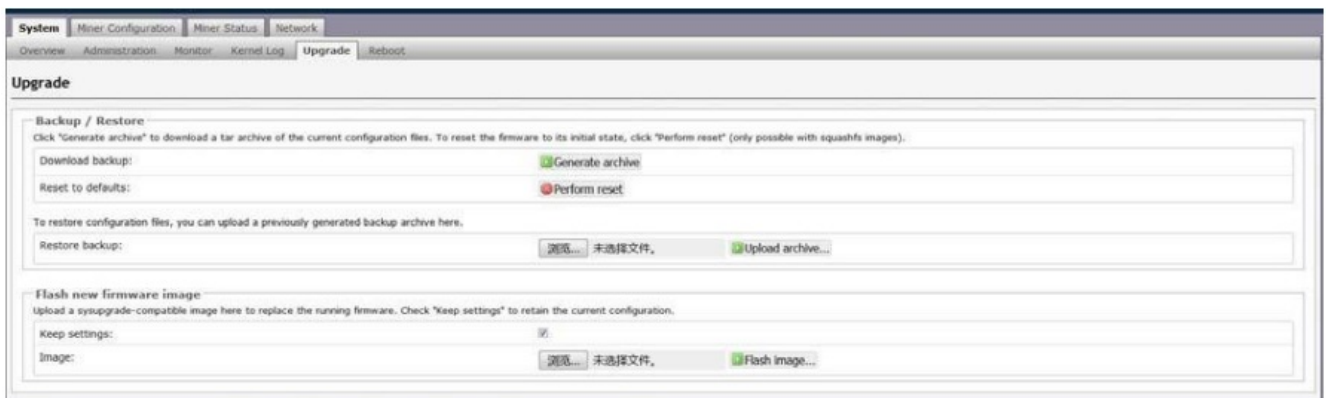


6.2 Upgrading Your System

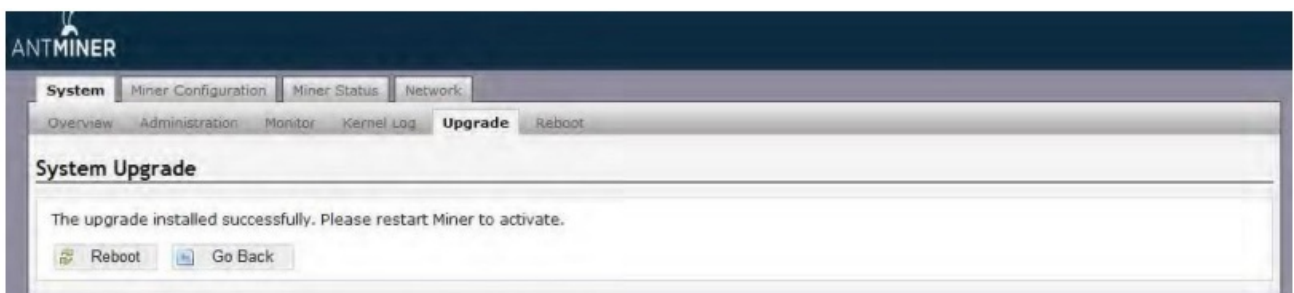
Make sure that the S9j server remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

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 S9j 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 you purchased the product.

Documents / Resources

	BITMAIN S9j Server [pdf] User Manual S9j Server, S9j, Server
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References

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