



Z11 Server Installation Guide

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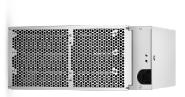
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1. Overview

The Z11 server is Bitmain's newest version in the Z11 server series. All Z11 servers are tested and configured prior to shipping to ensure easy set up.







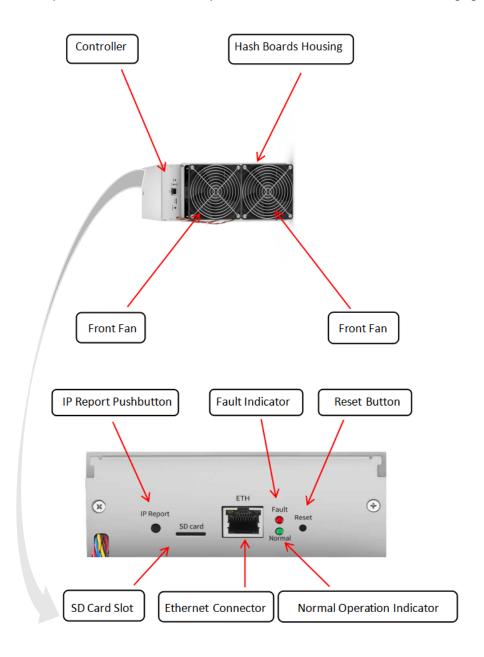
Caution:

- 1.The socket-outlet shall be installed near the equipment and shall be easily accessible.
- 2. You must provide your own ATX power supply.
- 3. The material of power cord shall be insulated with PVC, TFE, PTFE, FEP, polychloroprene or polyimide.
- 4. When press the reset button, the server will adjust the frequency automatically to seek the maximum hashrate. The whole process will last for 10 to 20 minutes.
- 5. Please refer to the layout above to place your goods in usage in case of any damage.



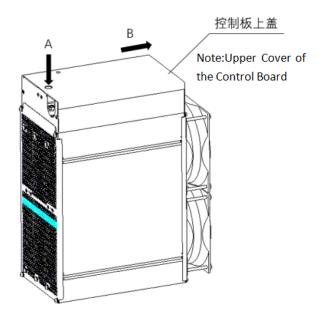
1.1 Z11 Server Components

The main components and controller front panel of Z11 server are shown in the following figure:

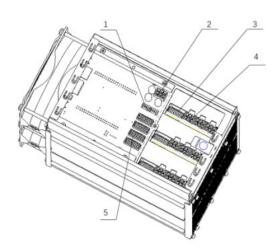


1.2 Connecting the Power Supply

1.Press down on the button at the direction indicated by arrow A, and slide the upper cover of the control board along the direction indicated by arrow B after the button is pressed in place.



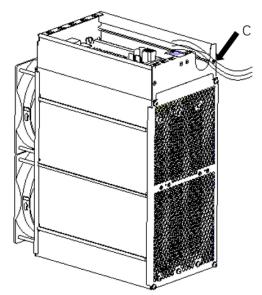
2. The position and name of the socket after sliding the upper cover of the control board are as shown below.



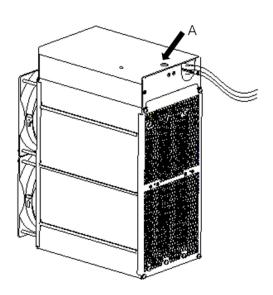
No.	Name	Quantity
1	Fan Socket	2
2	Main control Board PSU Socket	1
3	Hashboard Signal Socket	3
4	Hashboard PSU Socket	9
5	Main control Board Signal Socket	4

3. Connect the power supply to the corresponding socket of the server, then tie the cables at the position indicated by arrow C and place all the cables into the U-shaped hole.





4. Push the upper cover of the main control board back into place and ensure that the button indicated by arrow A is stuck in place.





1.3 Specifications

Model No.: 240-Z Version:Z11

Product Glance	Value			
Model No.	240-Z			
Crypto Algorithm/Coins		EquiHash/Zcash		
Hashrate, KSol/s		135		
Reference power on wall, Watt		1418		
Reference power efficiency on wall @25°C, J/Ksol	10.50			
Adapted AC/DC output requirement, Watt/ Volt	1729/ 12.00			
Detailed Characteristics	Value			
	Min	Тур	Max	
Hashrate & Power				
Hashrate, KSol/s		135	142	
Power efficiency on wall @25°C, J/KSol ⁽¹⁻¹⁾	10.50		11.24	
Power efficiency on wall @40°C, J/KSol ⁽¹⁻²⁾	11.01		11.78	
Reference power on wall, Watt (1-3)	1418		1673	
DC input voltage range, Volt (1-4)	11.60	12.00	13.00	
DC input current range, Amp (1-5)		109.90	134.13	
Adapted AC/DC output power requirement, Watt (1-6)	1556	1729		
Hardware Configuration				



Quantity of hash chips	9		
Quantity of hash boards	3		
Networking connection mode	RJ45 ethernet 10/100M		
Server Size (Length*Width*Height, w/o package), mm (2-1)	242*134*302		
Net weight, kg ⁽²⁻²⁾	5.40		
Noise, dBA @25°C (3-1)			70
Environment Requirements			
Operation temperature,°C	0	25	40
Storage temperature,°C	-40	25	85
Operation humidity, RH	5%		95%

Notes:

- (1-1) Refers PSU power conversion efficiency of 93%.
- (1-2) Refers PSU power conversion efficiency of 93%.
- (1-3) Min condition: 25°C, min J/KSol, typical hashrate.

 Max condition: 40°C, max J/KSol, max hashrate.

 Refers PSU power conversion efficiency of 93%.
- (1-4) Caution: Wrong input voltage may probably cause server damaged.
- (1-5) Typ condition: min reference power, typical DC input voltage.

 Max condition: max reference power, min DC input voltage.
- (1-6) Min condition: 40°C, max J/KSol, max hashrate,

PSU output power should be no less than the min value to make sure mining stable.

Typical condition: (typical power) = (min power)/90%, leave power output margin for PSU.

Caution: It is strongly recommended that using typical power can make sure your server can work well.

You can use one PSU to power multiple boards. Do not attempt to power one board with more than one PSU.

All PCI-E ports are required to plug in while powering up the board.

- (2-1) Domestic and international version.
- (2-2) Domestic and international version.
- (3-1) Max condition: Fan is under max RPM(rotation per minute).



2.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:

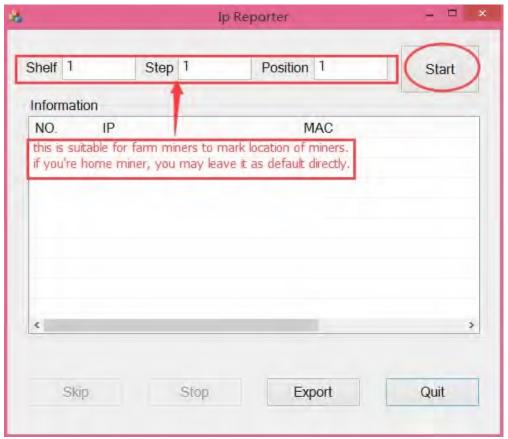
https://shop.bitmain.com/support.htm?pid=00720160906053730999PVD2K0vz0693

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



The default DHCP network protocol distributes IP addresses automatically.

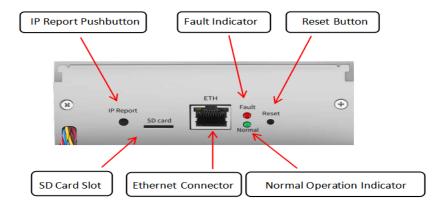
- 4. Right-click **IPReporter.exe** and run it as Administrator.
- 5. Select one of the following options:
 - Shelf, Step, Position suitable for farm servers to mark the location of the servers.
 - Default suitable for home servers.
- 6. Click Start.





2.Setting Up the server

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 DHCP IP address (optional).
- 11. Click Save & Apply.



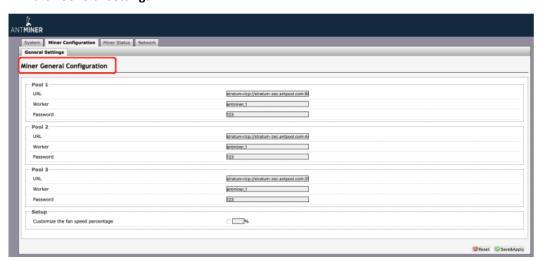


3. Configuring the Server

3. Configuring the Server Setting Up the Pool

To configure the server:

1. click General Settings.





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

2. Set the options according to the following table:

Option	Description			
Pool URL	The Z11 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.			
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.

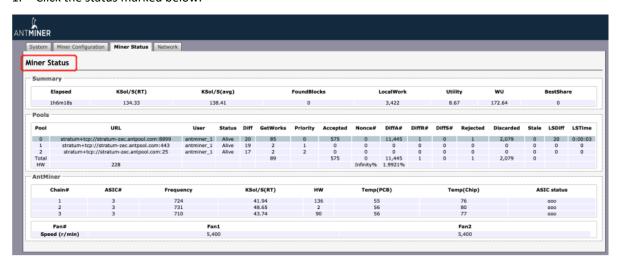


4. Monitoring Your Server

4. Monitoring Your server

To check the operating status of your server:

1. Click the status marked below.



Note: The Z11 server is with automatic frequency adjustment. Firmware will stop running when the Temp(PCB) reaches to 80°C, there will be an error message "Fatal Error: Temperature is too high!" shown in the bottom of kernel log page.

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)	lash 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:				
	• O - indicates OK				
	• X - indicates error				
	• indicates dead				



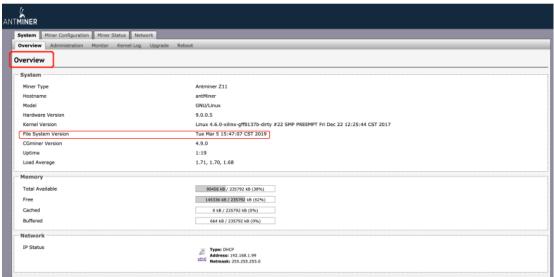
5. Administering Your Server

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5.1 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 20190305.



5.2 Upgrading Your System



Make sure that the Z11 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**.





5. Administering Your Server

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 选择文件 (Browse) button and navigate to the upgrade file. Select the upgrade file, then click Flash image. A message appears notifying you if the Z11 firmware can be upgraded and if yes, will then proceed to flash the image.
- 4. When the upgrade is completed, the following message appears:

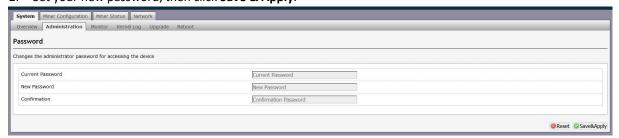


- 5. Click one of the following options:
 - **Reboot** to restart the server with the new firmware.
 - **Go Back** to continue mining with the current firmware. The server will load the new firmware next time it is restarted.

5.3 Modifying Your Password

To change your login password:

- 1. In **System**, click the **Administration** tab.
- 2. Set your new password, then click Save & Apply.



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.



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 your purchased the product.

台湾 ROHS:

設備名稱: Z11 服務器,型號: 240-Z

	有害物质					
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. "o" 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