

BITMAIN E3 Antminer Server



BITMAIN E3 Antminer Server Installation Guide

[Home](#) » [BITMAIN](#) » BITMAIN E3 Antminer Server Installation Guide 

Contents

- [1 BITMAIN E3 Antminer Server](#)
- [2 Product Usage Instructions](#)
- [3 E3 Server Installation](#)
- [4 Overview](#)
- [5 Connecting the Power Supply](#)
- [6 Setting Up the Server](#)
- [7 Configuring the Server](#)
- [8 Monitoring Your Server](#)
- [9 Administering Your Server](#)
- [10 Regulation](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)

BITMAIN

BITMAIN E3 Antminer Server



Specifications

Parameters	Value
Product model	E3
Total quantity of hash chips	18 PCS
Total quantity of hash boards	3 PCS
Total hash rate	190 MH/s
DC voltage input	11.60~13.00 V
DC current input @12V DC input @25	58.9 A +4%
DC Power @12V DC input @25	707 W +4%
220VAC Power @25 ,93%	760 W +4%
conversion efficiency of APW3++	220VAC Power efficiency @25 ,93%
Weight without package	10.5 kg
Operation temperature	0-40°C
Storage temperature	-40-85°C
Operation humidity	5%RH-95%RH prevent condensation
Noise	76 dB
Networking connection mode	Ethernet Cable
Power connection mode	All two PCI-E ports are required to power the board. You can use one PSU to power multiple boards, but do not attempt to power one board with two PSUs. 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).
Size (Length*Width*Height)	399.5mm*130mm*328.15mm

Product Usage Instructions

Connecting the Power Supply

Seven PCI-e connectors are located at the top of the E3 server for connecting the PSU as follows:

- Six PCI-e connectors for the hash boards. Each hash board has a set of two PCI-e connectors.
- One PCI-e connector located on the controller.

Each hash board 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 six PCI-e connectors on the top of the E3 server, ensuring that each hash board is powered by the same PSU.
2. Connect a PSU power cable connector to the E3 PCI-e connector on the controller.
3. Connect the network cable to the ETH port.
4. To power up your E3 server, connect the PSUs to the power wall outlet.

Frequently Asked Questions (FAQ)

- **Q: Can I use multiple power supplies to power the E3 server?**

A: Yes, you can use multiple power supplies, but ensure each hash board is powered by the same PSU to avoid damage and instability.

- **Q: What is the networking connection mode for the E3 server?**

A: The networking connection mode is Ethernet Cable.

E3 Server Installation

Guide

Document Version 0.1 July 2018

- © Copyright Bitmain Technologies Holding Company 2007 – 2022. All rights reserved.
- Bitmain Cayman (hereinafter referred to as 'Bitmain') reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice.
- Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to Bitmain's terms and conditions of sale supplied at the time of order acknowledgment.
- Bitmain warrants performance of its products to the specifications applicable at the time of sale in accordance with Bitmain's standard warranty. Testing and other quality control techniques are used to the extent Bitmain deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.
- Bitmain assumes no liability for third-party applications assistance. Customers are responsible for their products and applications using Bitmain components. To minimize the risks associated with customer products and applications, customers should provide adequate design and operating safeguards.
- Bitmain does not warrant or represent that any license, either express or implied, is granted under any Bitmain patent right, copyright or other Bitmain intellectual property right relating to any combination, machine, or process in which Bitmain products or services are used. Information published by Bitmain regarding third-party products or services does not constitute a license from Bitmain to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from Bitmain under the patents or other intellectual property of Bitmain.
- Resale of Bitmain products or services with statements different from or beyond the parameters stated by Bitmain for that product or service voids all express and any implied warranties for the associated Bitmain product or service and is an unfair and deceptive business practice. Bitmain is not responsible or liable for any such statements.
- All company and brand products and service names are trademarks or registered trademarks of their respective holders.
- All text and figures included in this publication are the exclusive property of Bitmain, and may not be copied, reproduced, or used in any way without the express written permission of Bitmain. Information in this document is subject to change without notice and does not represent a commitment on the part of Bitmain. Although the information in this document has been carefully reviewed, Bitmain does not warrant it to be free of errors or

omissions. Bitmain reserves the right to make corrections, updates, revisions or changes to the information in this document.

Bitmain
Tel: +86-400-890-8855
www.bitmain.com

Overview

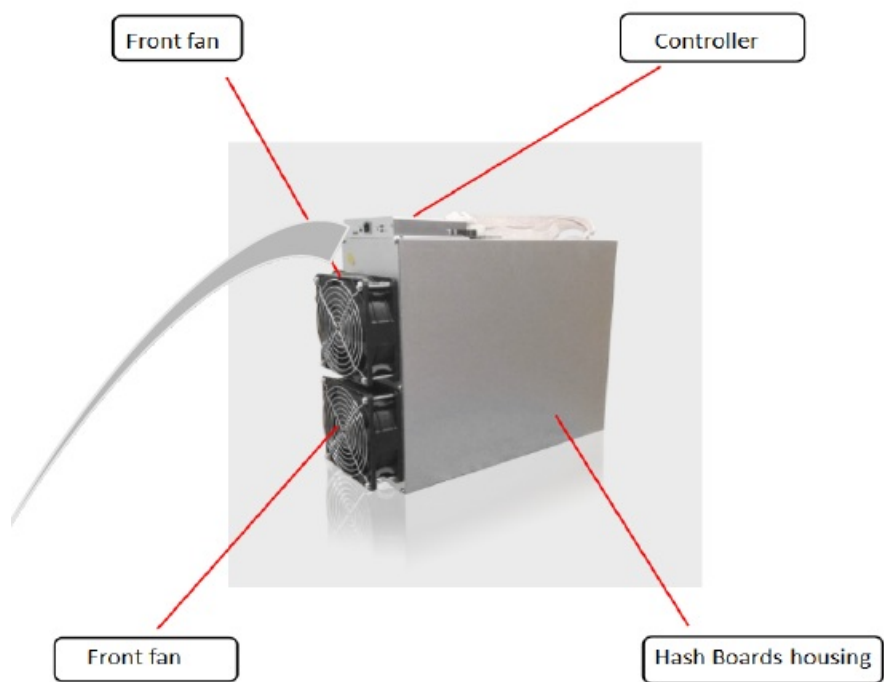
The E3 server is Bitmain’s newest version in the E3 server series. All E3 servers are tested and configured prior to shipping to ensure easy set up.

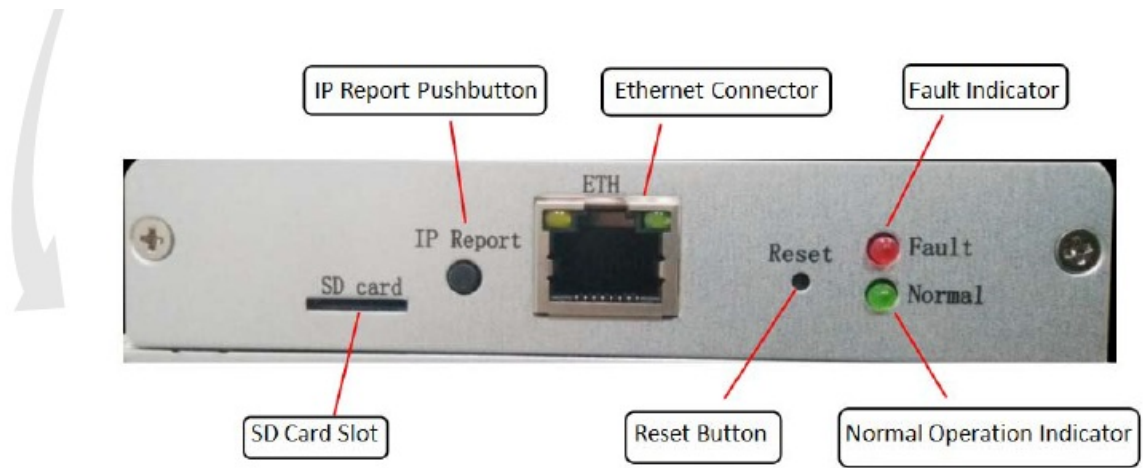


You must provide your own ATX power supply.

E3 Server Components

The E3 server main components and controller front panel are shown in the following figure:





Specifications

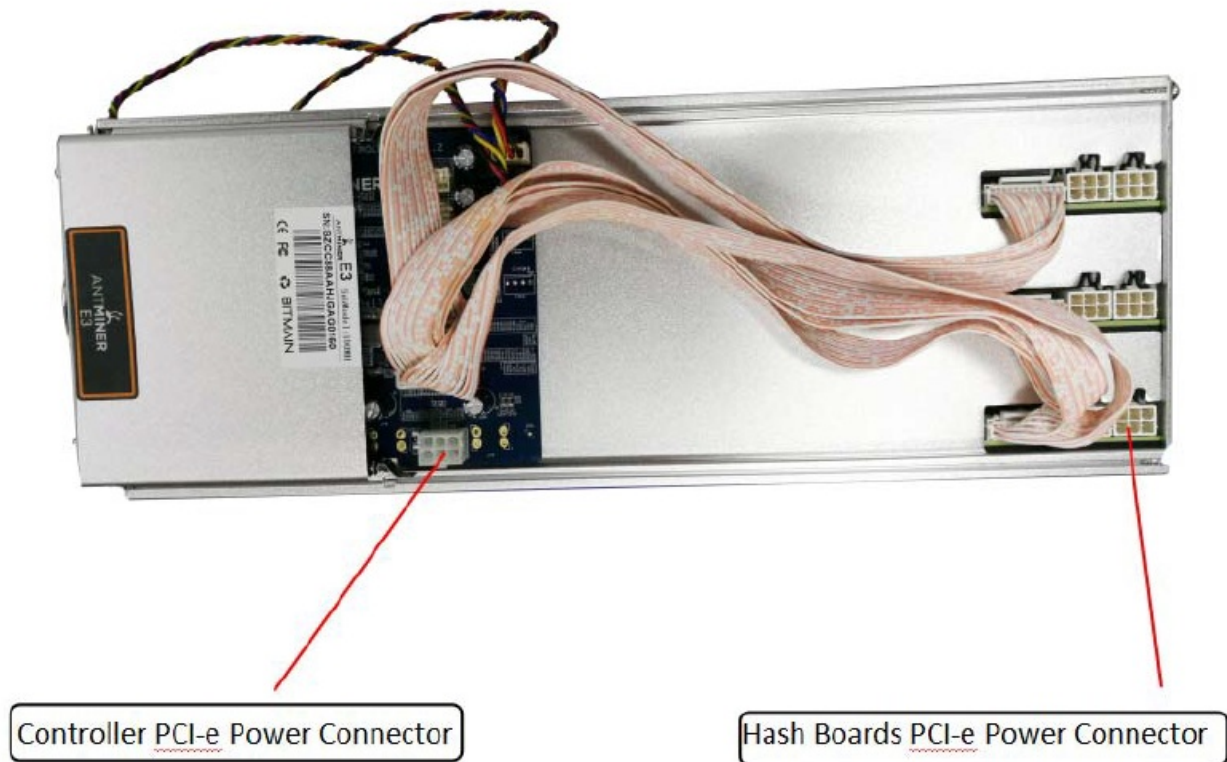
Parameters of E3 Server		
N O.	Parameters	Value
1	Product model	E3
2	Total quantity of hash chips	18 PCS
3	Total quantity of hash boards	3 PCS
4	Total hash rate	190 MH/s
5	DC voltage input	11.60~13.00 V
6	DC current input @12V DC input @25°C	58.9 A +4%
7	DC Power @12V DC input @25°C	707 W +4%
8	220VAC Power @25°C ,93% conversion efficiency of APW3+	760 W +4%
9	220VAC Power efficiency @25°C ,93% conversion efficiency of APW3++	4 J/MH +4%
10	Weight without package	10.5 kg
11	Operation temperature	0-40 °C
12	Storage temperature	-40-85 °C
13	Operation humidity	5%RH-95%RH prevent condensation
14	Noise	76 dB
15	Networking connection mode	Ethernet Cable
16	Power connection mode	<ul style="list-style-type: none"> • All two PCI-E ports are required to power the board. You can use one PSU to power multiple boards, but do not attempt to power one board with two PSUs. • 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).
17	Size (Length*Width*Height)	399.5mm*130mm*328.15mm

Connecting the Power Supply

- Seven PCI-e connectors are located at the top of the E3 server for connecting the PSU as follows:
 - Six PCI-e connectors for the hash boards. Each hash board has a set of two 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 six PCI-e connectors on the top of the E3 server, ensuring that each hash board is powered by the same PSU.



2. Connect a PSU power cable connector to the E3 PCI-e connector on the controller.
3. Connect the network cable to the ETH port.
4. To power up your E3 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.

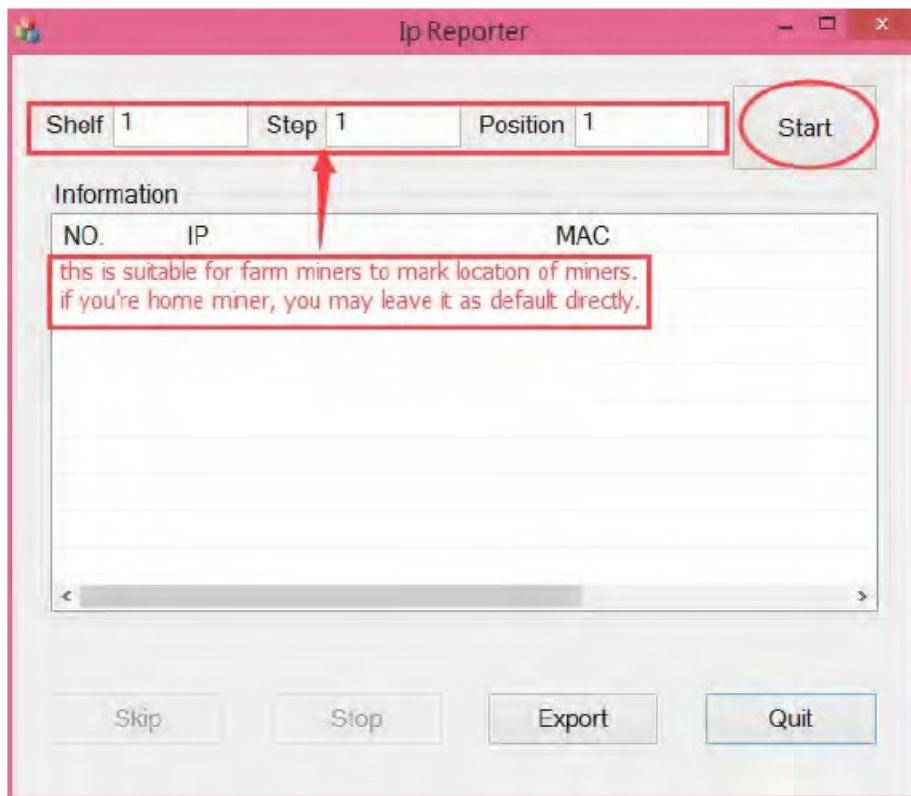
1. Go to the following site:

<https://shop.bitmain.com/support/download?archivesId=007201609060536053940Xi8MfLU067F&type=0>

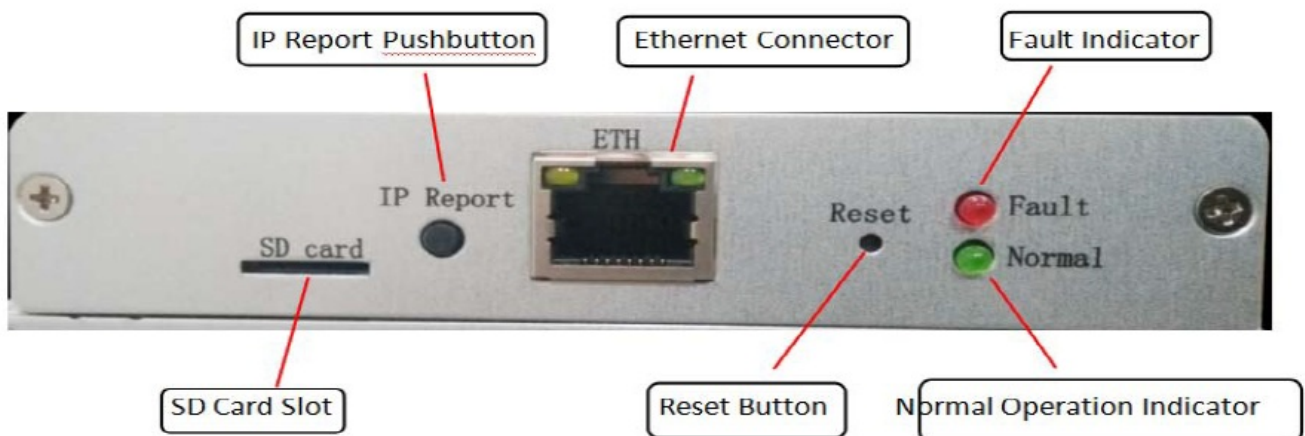
2. Download the following file: IPReporter.zip
3. Extract the file.

The default DHCP network protocol distributes IP addresses automatically.

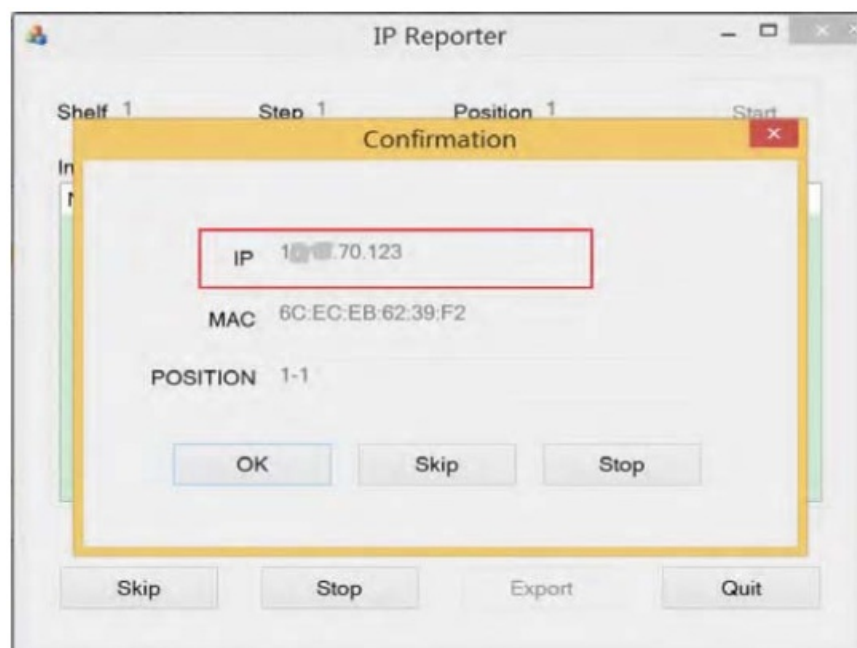
4. Right-click IPReporter.exe and run it as Administrator.
5. Select one of the following options:
 1. **Shelf, Step, Position** – suitable for farm servers to mark the location of the servers.
 2. **Default** – suitable for home servers.
6. Click Start.



7. On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).

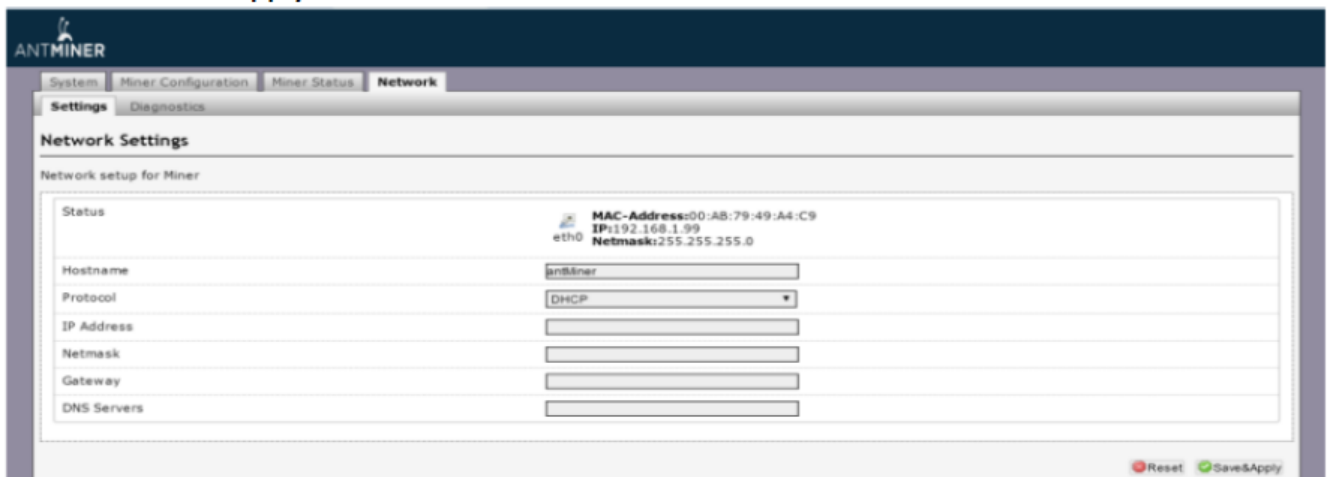


The IP address will be displayed in a window on your computer screen.



8. In your web browser, enter the IP address provided.

9. Proceed to login using root for both the username and password.
10. In the Network section, you can assign a DHCP IP address (optional).
11. Click Save & Apply.



Configuring the Server

Setting Up the Pool

To configure the server:

1. click General Settings.
2. Set the options according to the following table:

Option	Description
Pool URL	<ul style="list-style-type: none"> Enter the URL of your desired pool. The E3 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.

Click Save & Apply to save and restart the server.

System Miner Configuration Miner Status Network

General Settings

Miner General Configuration

Pool 1

URL stratum-eth.antipool.com 8008

User 0x00000000000000000000000000000000

Password antminer_1

Pool 2

URL stratum-eth.antipool.com 443

User 0x00000000000000000000000000000000

Password antminer_1

Pool 3

URL stratum-eth.antipool.com 25

User 0x00000000000000000000000000000000

Password antminer_1

Setup

Reset Save&Apply

Monitoring Your Server

To check the operating status of your server:

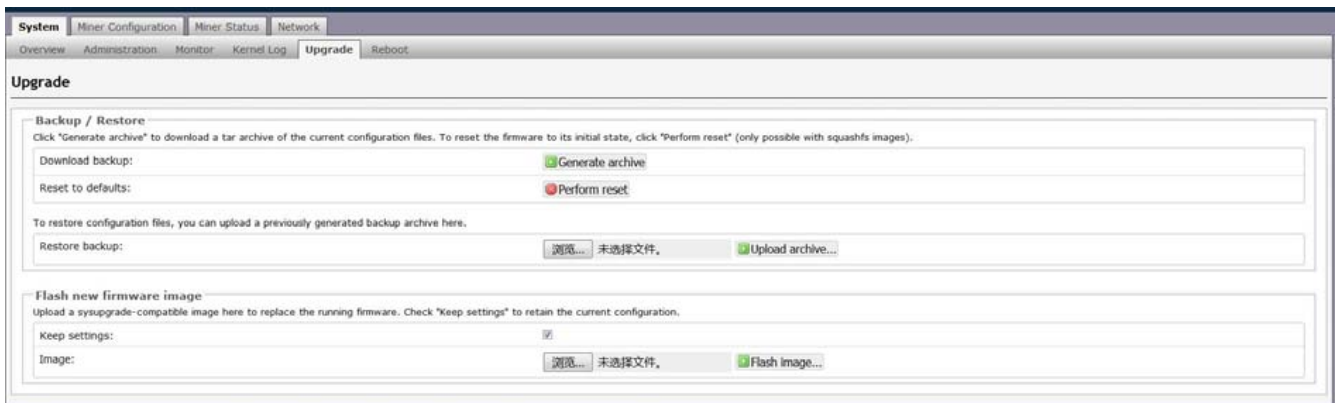
1. Click the status marked below.
2. Monitor your server according to the descriptions in the following table:

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	<p>One of the following statuses will appear:</p> <ul style="list-style-type: none"> • O - indicates OK • X - indicates error • - - indicates dead

Make sure that the E3 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:

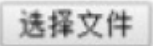
1. In System, click Upgrade.



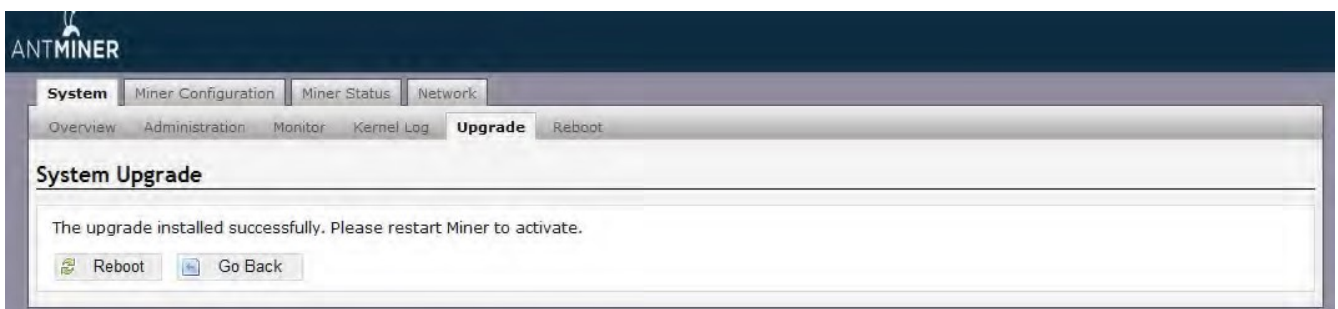
The screenshot shows the 'System' tab with the 'Upgrade' sub-tab selected. The page is titled 'Upgrade' and contains two main sections: 'Backup / Restore' and 'Flash new firmware image'. In the 'Backup / Restore' section, there are buttons for 'Generate archive', 'Perform reset', and 'Upload archive...'. In the 'Flash new firmware image' section, there is a checkbox for 'Keep settings' (which is checked) and a 'Flash image...' button. The 'Keep settings' checkbox is highlighted with a red box and the text '选择文件' (Select file).

2. For Keep Settings:

1. Select the check box to keep your current settings (default).
2. 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 E3 firmware can be upgraded and if yes, will then proceed to flash the image.

4. When the upgrade is completed, the following message appears:



The screenshot shows the 'System' tab with the 'Upgrade' sub-tab selected. The page is titled 'System Upgrade' and displays a message: 'The upgrade installed successfully. Please restart Miner to activate.' Below the message are two buttons: 'Reboot' and 'Go Back'.


5. Click one of the following options:

1. **Reboot** - to restart the server with the new firmware.
2. **Go Back** - to continue mining with the current firmware. The server will load the new firmware next time it is restarted.

Modifying Your Password

To change your login password:

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



The screenshot shows the 'System' tab with the 'Administration' sub-tab selected. The page is titled 'Password' and contains a form to change the administrator password. The form has three input fields: 'Current Password', 'New Password', and 'Confirmation Password'. At the bottom right of the form are two buttons: 'Reset' and 'Save&Apply'.

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 This 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 E3 Antminer Server [pdf] Installation Guide E3, E3 Antminer Server, Antminer Server, Server
--	--

References

-  [BITMAIN](#)
-  [BITMAIN](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.