


ANTMINER S17 Mining Server



ANTMINER S17 Mining Server Installation Guide

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ANTMINER S17 Mining Server



Product Information

Specifications

- **Version:** S17+
- **Model No.:** 266-Aa
- **Crypto Algorithm/Coins:** SHA256/BTC/BCH
- **Hashrate:** 73.00 TH/s
- **Reference power on wall:** 2920 Watt (40.00 + 10%)
- **Hardware Configuration:** Miner Size (Length*Width*Height, w/o package): 298.0*175.0*304.0 mm
- **Net weight:** 10.00 kg (Including PSU weight)

FAQ

- **Q:** Can I use a different power supply with the S17+ server?
 - **A:** It is recommended to use the provided APW9+ power supply to ensure optimal performance and compatibility.
- **Q:** How can I troubleshoot network connection issues with the server?

- **A:** Check the network settings on the server and ensure that the IP address is correctly assigned using the IPReporter tool.

Overview



Front View



Back View

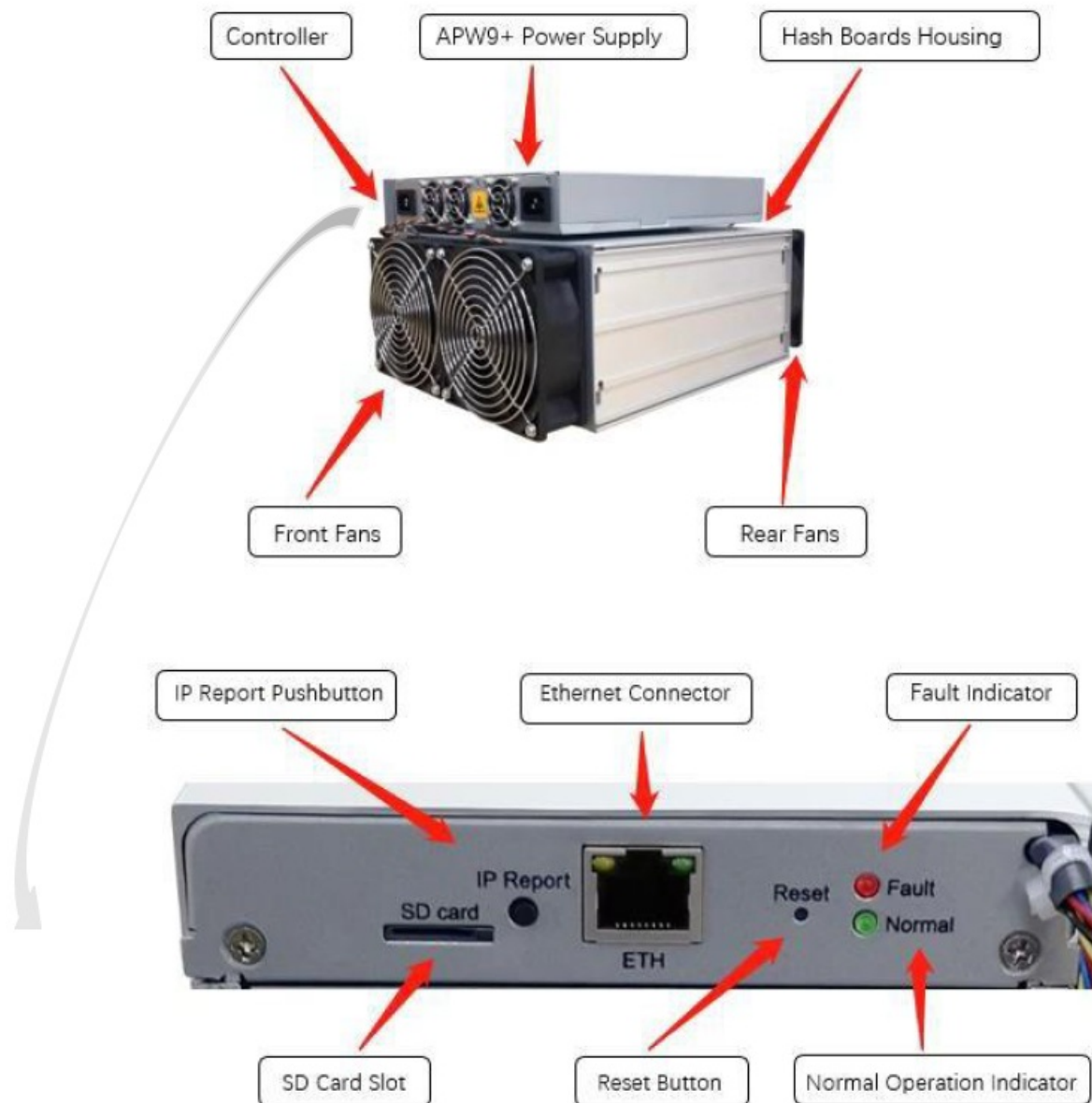
The S17+ server is Bitmain's newest version in the 17+ server series. Power supply APW9+ is part of S17+ server. All S17+ servers are tested and configured prior to shipping to ensure easy set up.

Caution

1. 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.
2. 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.
3. Please refer to the layout above to place your goods in usage in case of any damage.
4. DO NOT remove any screws and cables tied on the product.
5. DO NOT PRESS the metal button on the cover.

S17+ Server Components

The main components and controller front panel of S17+ servers are shown in the following figure:



APW9+ Power Supply:



Note:

1. Power supply APW9+ is part of S17+ server. For detailed parameters, please refer to the specifications below.
2. Additional two power cords are needed.

Specifications

Product Glance	Value
Version Model No.	S17+ 266-Aa
Crypto Algorithm/Coins	SHA256/BTC/BCH
Hashrate, TH/s	73.00
Reference power on wall, Watt	2920
Reference power efficiency on wall @25°C, J/T H	40.00+10%

Hardware Configuration	
Miner Size (Length*Width*Height, w/o package),mm(1-1)	298.0*175.0*304.0
Net weight, kg (1-2)	10.00

Notes

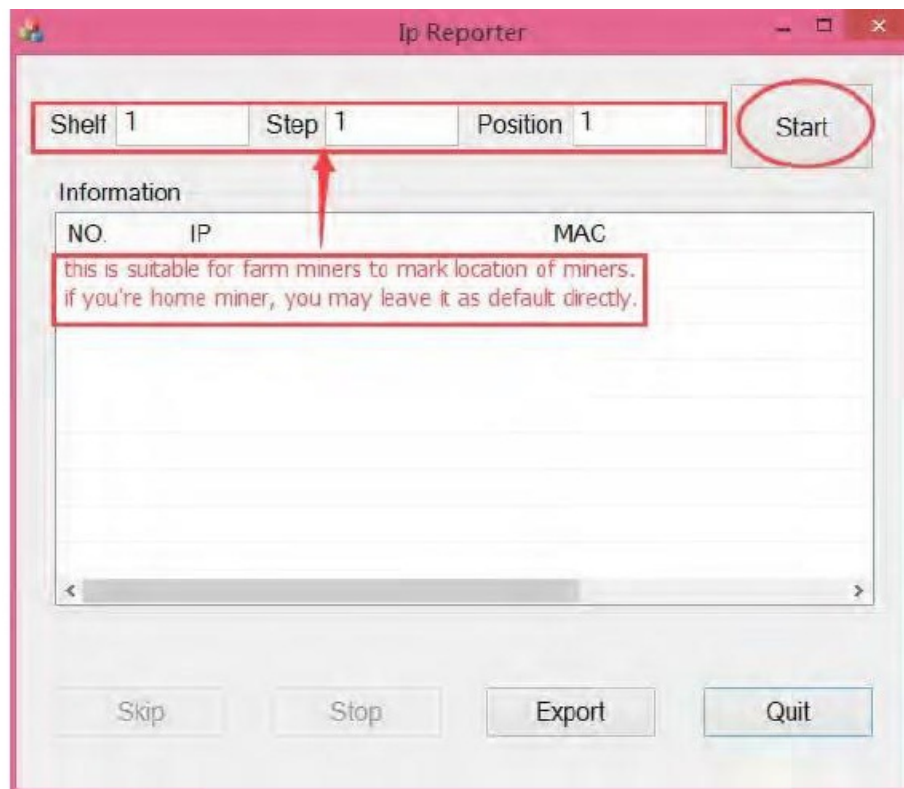
- (1-1) Including PSU size
- (1-2) Including PSU weight

Setting Up the Server

To set up the server:

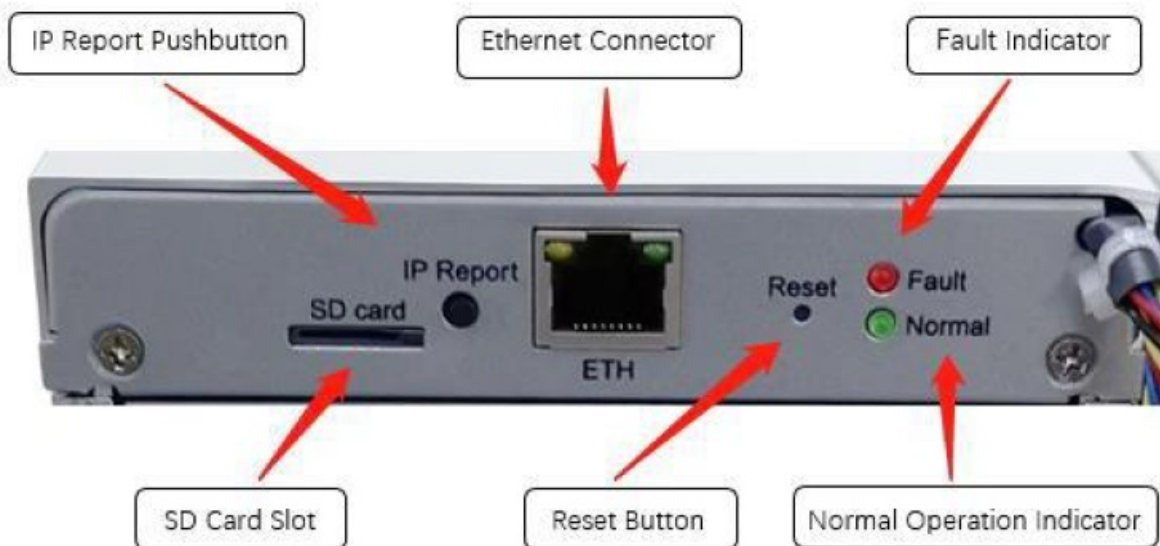
The file IPReporter.zip is supported by Microsoft Windows only.

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.
 - **Note:** 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.

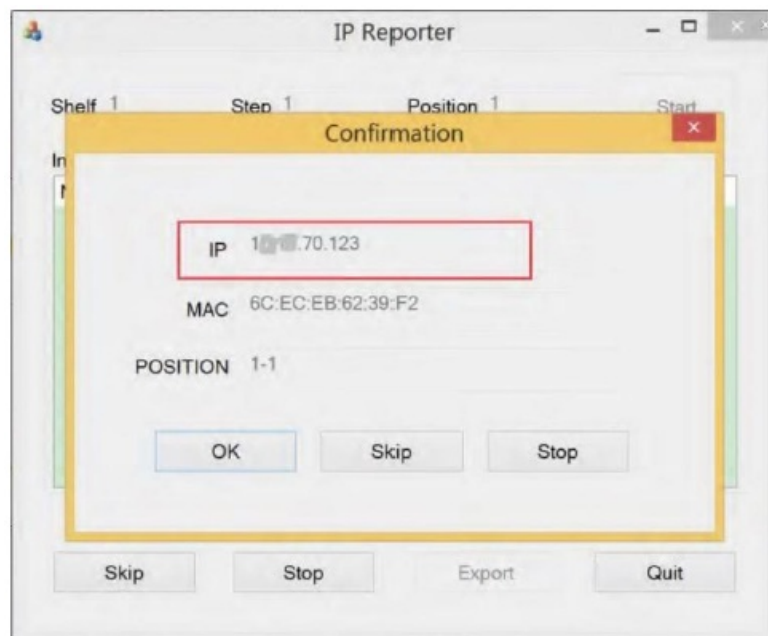


6. Click Start.

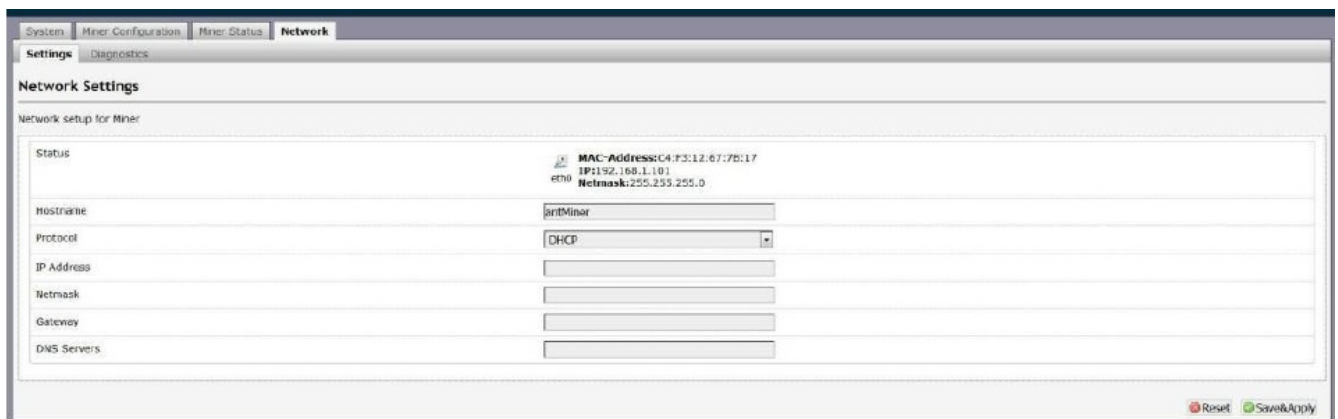
7. On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).



- 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 root for both the username and password.
10. In the Network section, you can assign a DHCP IP address (optional).

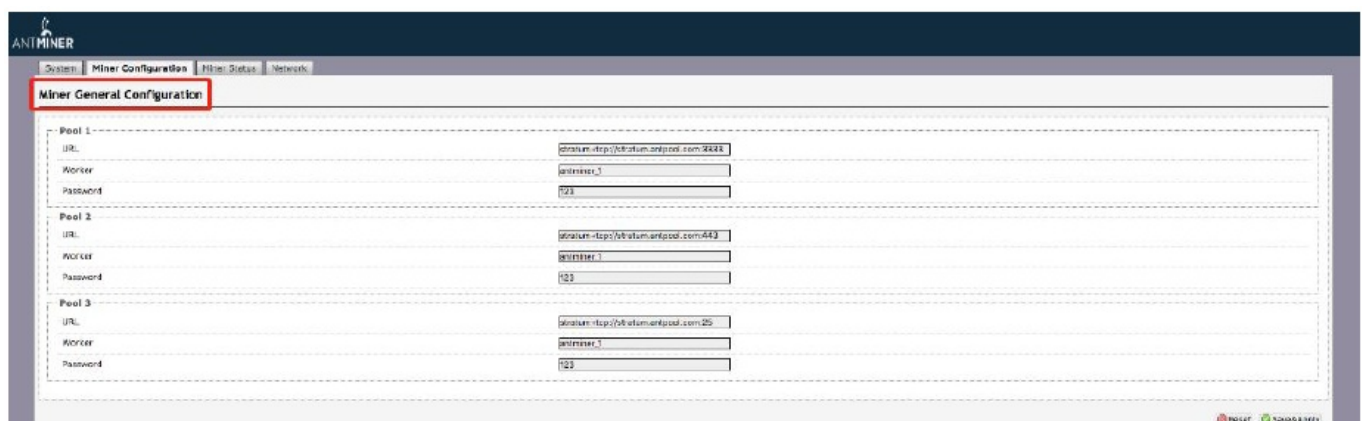


11. Click Save & Apply.

Configuring the Server


Setting Up the Pool

To configure the server:



1. click General Settings.

- Set the options according to the following table:

Option	Description
Pool URL	<p>Enter the URL of your desired pool.</p> <div>  <p>The S17+ 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.</p> </div>
Worker	Your worker ID on the selected pool.
Password	The password for your selected worker.

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

Monitoring Your server

To check the operating status of your server:

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System

Miner Configuration

Miner Status

Network

Miner Status

Summary

Elapsed

GH/s(RT)

GH/s(avg)

FoundBlocks

LocalWork

Difficulty

WU

BestShare

1344m52s

73707.04

73550.5

0

3701

15.04

1044181.75

1107770131

Pools

Pool	URL	User	Status	GR	GetWorks	Priority	Accepted	Diff1#	Diff2#	Diff3#	Diff4#	Diff5#	Rejected	Discarded	Share	LSDiff	LSTime
0	No URL	No User	Alive	25.5K	195	0	1750	0	114566880	0	0	0	0	0	0	82516	8:08:38
1	No URL	No User	Alive	32.8K	1	1	0	0	32768	0	0	0	0	0	15	32768	1:45:02
2	No URL	No User	Alive		1	2	0	0	0	0	0	0	0	0	0	0	0
total					197	3	1751	0	114766768	0	0	0	0	0	1461	15	
WU																	
	10																

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Chips#	ASIC#	Frequency	GH/s(RT)	HWP	Temp(PCB)	Temp(Chips)	ASIC status										
1	05	562	23894.85	7	51-51-52-63	70-77-72-80	00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000										
2	05	562	24036.11	5	53-01-55-65	73-78-74-85	00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000										
3	05	562	25455.97	7	51-50-52-62	72-74-75-77	00000 00000 00000 00000 00000 00000 00000 00000 00000 00000 00000										

Firmware

Flash

512KB

Flash

512KB

Flash

512KB

Flash

512KB

Flash

512KB

Flash

512KB

Flash

512KB

Flash

512KB

Flash

512KB

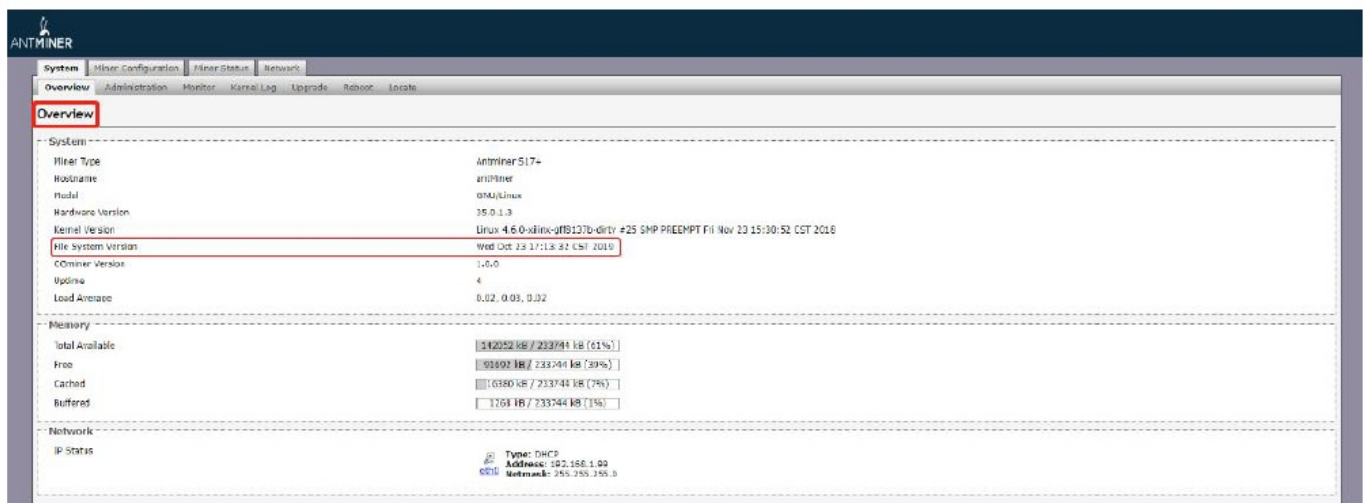
- Click the status marked below.
 - Note:** The S17+ server is with automatic frequency. Firmware will stop running when the Temp (PCB) reaches to 80°C or Temp(chips) reaches to 100°C there will be an error message “Fatal Error: Temperature is too high!” shown in the bottom of kernel log page.
- Monitor 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

Administering Your Server

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 uses. In the examples below, the servers are respectively using firmware version 20191023.

Upgrading Your System

Note

- Make sure that the S17+ 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:

System | Miner Configuration | Miner Status | Network

Overview | Administration | Monitor | Kernel Log | **Upgrade** | Reboot

Upgrade

Backup / Restore
Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).

Download backup: Generate archive

Reset to defaults: Perform reset

To restore configuration files, you can upload a previously generated backup archive here.

Restore backup: 浏览... 未选择文件。 Upload archive...

Flash new firmware image
Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration.

Keep settings: ☒

Image: 浏览... 未选择文件。 Flash image...

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 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 S17+ firmware can be upgraded and if yes, will then proceed to flash the image.
4. When the upgrade is completed, the following message appears:

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System | Miner Configuration | Miner Status | Network

Overview | Administration | Monitor | Kernel Log | **Upgrade** | Reboot

System Upgrade

The upgrade installed successfully. Please restart Miner to activate.

Reboot Go Back

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 when it is restarted.

Modifying Your Password

To change your login password:

System | Miner Configuration | Miner Status | Network

Overview | **Administration** | Monitor | Kernel Log | Upgrade | Reboot

Password

Changes the administrator password for accessing the device

Current Password:

New Password:

Confirmation:

Reset Save&Apply

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

Note

- 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

Basic 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	$\leq 30\text{mg/m}^3$
Dust (suspended)	$\leq 0.2\text{mg/m}^3$
Dust (deposited)	$\leq 1.5\text{mg/m}^2\text{h}$

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.		

FCC STATEMENT

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.

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Documents / Resources

	ANTMINER S17 Mining Server [pdf] Installation Guide S17 Mining Server, S17, Mining Server, Server
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References

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