BITMAIN



S17e Server Installation Guide

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1. Overview

The S17e server is Bitmain's newest version in the 17e server series. Power supply APW9+ is part of S17e server. All S17e 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.

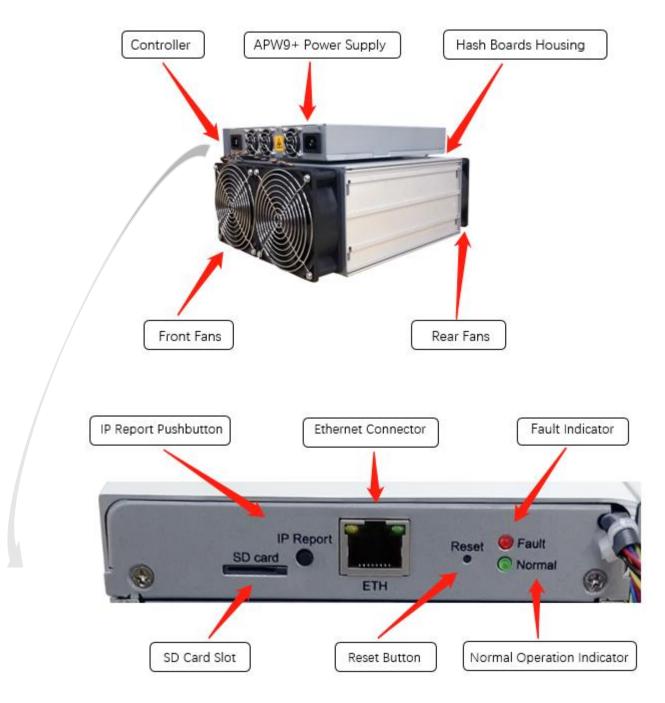
4. DO NOT remove any screws and cables tied on the product.

5. DO NOT PRESS the metal button on the cover.



1.1 S17e Server Components

The main components and controller front panel of S17e servers are shown in the following figure:



APW9+ Power Supply:



Note:

1.Power supply APW9+ is part of S17e server. For detailed parameters, please refer to the specifications below.

2.Additional two power cords are needed.



1.2 Specifications

Product Glance	Value
Version	S17e
Model No.	266-A
Crypto Algorithm/Coins	SHA256/BTC/BCH
Hashrate, TH/s	64.00
Reference power efficiency on wall @25°C, J/TH	45.00+10%

Detailed Characteristics	Value					
	Min	Тур	Max			
Hardware Configuration						
Miner Size (Length*Width*Height, w/o package), mm ⁽¹⁻¹⁾		338.0*175.0*304.0				
Net weight, kg ⁽¹⁻²⁾		10.50				

Notes:

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



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.
- 3. Extract the file.

.

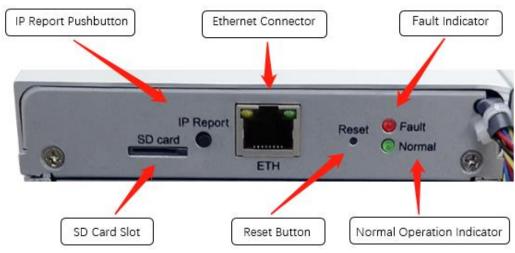
The default DHCP network protocol distributes IP addresses automatically.

- 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.

Shelf 1	Step	1	Position	1	Sta	rt
Information	-					
NO.	IP			IAC		
	le for farm mir ne miner, you					
i youre nor	ne miner, you	may leave	it as tierault t	inecuy.		
<						>
<						>

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.

		Confirmation		×
	IP 1010.70.1	123		
	MAC 6C:EC:EE	3:62:39:F2		
POS	SITION 1-1			
	ОК	Skip	Stop	

- 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.

System Miner Configuration Miner Status Network		
Settings Diagnostics		
Network Settings		
Network setup for Miner		
Status	MAC-Address:C4:F3:12:67:78:17 IP192.163.101 etho Hemmak:25:25.25.5.0	
Hostname	antMiner	
Protocol	DHCP	
IP Address		
Netmask		
Gateway		
DNS Servers		
		Reset Save&Apply



3.Configuring the Server

3. Configuring the Server

Setting Up the Pool

To configure the server:

1. click General Settings.

System Miner Configuration Miner Status Network Miner General Configuration	
Pool 1	
URL	stratum+top //stratum antpool.com 3333
Worker	antminer_1
Password	123
Pool 2	
URL	stratum+tcp://stratum.antpool.com.443
Worker	antminer_1
Password	123
- Pool 3	
URL	stratum+tcp://stratum antpool.com 25
Worker	antminer_1
Password	123
L	
	Reset Save&Apply

2. Set the options according to the following table:

Option	Description
Pool URL	Enter the URL of your desired pool. The S17e 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.
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.

NER																				
System M	iner Configur	ation Miner	Status Netw	ork																
100000																				_
iner Stat	us																			
Summary																				
	Flapsed		GH/	S(RT)		GH/S(avg)		For	undBlocks		Loc	alWork		Utility		wu		BestShare	
	55m10s		610			61342				0			870		11.22		61867.7		20085307	
	Samilus		6110	37.74		61.342	61			0			1871		11622		6106717		20085307	
Pools																				
Pool			URI			User	Status	Ditt	GetWorks	Priority	Accepted	Ditt I #	DIIIA#	DittR#	Ditt5#	Rejected	Discarted	Stale	I SDIIT	15
0		stratum (trp://	/stratum.antpoo	Loam:33	33	antminer_1	Allvo	65,5K 102 0 610 0 40435712 7110656 0 1				109	1752	0	65536	0:0				
1		stratum i top;	//stratum.antpo/	al.com:44	3	antminer_1	Albe		1	1	0	0	0	0	0	0	0	0	0	
2		stratum (top)	//stratum.antpo	ol.com;2	5	antminer_1	Albe		1	2	0	0	0	0	0	0	0	0	0	
total									104	3	619	0	40435712	7110656	0	109	1752	0		
HW			15										0.0000%							
AntMiner																				
Chain#	ASIC#	Frequency	GH/S(RT)	HW	Temp(PCB)	Temp(Chip)	mp(Chip) ASIC status													
1	135	450	21756,59	0	32-47-32-47	52-56-53-57														
2	135	370	19769.00	13	34-43-33-45	52-53-52-56						00000000000								
3	135	380	19662.14	2	33-44-32-46	50-50-47-53														
	Fanil				fan1				fan2					fan3				fan4		
E .	reed (r/min)				5880				5880					58.80				5880		

Note: The S17e server is with automatic frequency. Firmware will stop running when the Temp (PCB) reaches to 85 $^{\circ}$ C or Temp(chips) reaches to 98 $^{\circ}$ 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)	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:
	• O - indicates OK
	• X - indicates error
	• indicates dead



5. Administering Your Server

5. Administering Your Server

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 uses. In the examples below, the servers are respectively using firmware version 20190910.

System Miner Configuration Miner Status Network	
Overview Administration Monitor Kernel Log Upgrade Reboot L	ocate
Overview	
System	1
Miner Type	Antminer S17e
Hostname	antMiner
Model	GNU/Linux
Hardware Version	Socket connect failed: Connection refused
Kernel Version	Linux 4.6.0-xilinx-gff8137b-dirty #25 SMP PREEMPT Fri Nov 23 15:30:52 CST 2018
File System Version	Tue Sep 10 22:21:45 CST 2019
CGminer Version	
Uptime	4
Load Average	0.00, 0.01, 0.01
Memory	
Total Available	123412 kB / 233744 kB (53%)
Free	110332 KB / 233744 KB (47%)
Cached	0 kB / 233744 kB (0%)
Buffered	996 kB / 233744 kB (0%)
- Network	
1P Status	Type: DHCP Address: 192.158.1.99 atho Netmask: 255.255.255.0

5.2 Upgrading Your System

Make sure that the S17e 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**.

Overview Administration Monitor Kernel Log Upgrade Upgrade Upgrade Reboot Reboot	ystem Miner Configuration Miner Status Network		
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: Image: Configuration files, you can upload a previously generated backup archive here. Restore backup: Image: Configuration files, you can upload a previously generated backup archive here. Restore backup: Image: Configuration files, you can upload a previously generated backup archive here. Restore backup: Image: Configuration files, you can upload a previously generated backup archive here. Restore backup: Image: Table XC/#, Image: Configuration files, you can upload a previously generated backup archive here.	Overview Administration Monitor Kernel Log Upgrade Reb	ot	
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: Reset to defaults: Perform reset To restore configuration files, you can upload a previously generated backup archive here. Restore backup: Flash new firmware image Upload a sysupgrade-compatible image here to replace the running firmware. Check "keep settings" to retain the current configuration.	ograde		
Reset to defaults:		ion files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).	
To restore configuration files, you can upload a previously generated backup archive here. Restore backup: Flash new firmware image Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration.	Download backup:	Generate archive	
Restore backup: 建築	Reset to defaults:	Perform reset	
Flash new firmware image Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration.	To restore configuration files, you can upload a previously generated back	p archive here.	
Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration.	Restore backup:	浏览… 未选择文件。 Upload archive…	
Keen sattings		. Check "Keep settings" to retain the current configuration.	
Not study at	Keep settings:	V	
Image: 演选 未选择文件, IIF lash image	Image:	浏览… 未选择文件。 IBFlash image…	



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 **Browse**) button and navigate to the upgrade file. Select the upgrade file, then click **Flash image**. A message appears notifying you if the S17e firmware can be upgraded and if yes, will then proceed to flash the image.
- 4. When the upgrade is completed, the following message appears:

NTMINER	
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.

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**.

System Miner Configuration Miner Status Network Overview Administration Monitor Kernel Log Upgrade Reboot Password		
Changes the administrator password for accessing the device		
Current Password	Current Password	
New Password	New Password	
Confirmation	Confirmation Password	
L		
		Reset 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.



Environmental Requirements

Please run your server in accordance with the following requirements

1. Basic Environmental Requirements:

1.1. Climatic Conditions:

Description	Requirement
Operating Temperature	0-40°C
Operating Humidity	10-90%RH (non-condensing)
Storage Temperature	-20-70℃
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	ррb	< 10		
Cl ₂	ppb	< 1		
NO ₂	ppb	< 50		
HF	ppb	< 1		
NH ₃	ppb	< 500		
O ₃	ррb	< 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 your 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。						

設備名稱: S17e 服務器型號: 266-A