BITMAIN

# S4 Server Manual



# Contents

1	Overvi	ew	3
2	Conne	ct to Server	3
3	Server	Configuration	.4
	3.1	Pool Setting	4
	3.2	Frequency Modification	5
4	Server	Status	.5
5	System	Configuration and status	6
	5.1	System Upgrading	6
	5.2	Password Modification	6
	5.3	Software Version Checking	7
	5.4	Restore Initial Setting	7



# **1** Overview

The S4 Server is a chassis style 2TH/s bitcoin server with PSU. It has been assembled before Fab out.



PSU inside: 1400W, 80PLUS gold, C14 input socket. Power line not included. You may look for one line with no less than 16A in your local market.

LCD screen: Here shows IP address, Hashrate, Max temperature. There are also status LEDS, reset button and beep on the screen.

Casing size: 3U Rack, 432mm\*442mm\*133mm.

# 2 Connect to Server

Step 1. The default DHCP network protocol distributes IP addresses automatically.

After you have your server hooked up, you will see the IP address on the LCD display.

Step 2. Connect your server to the PC with network cable.

Step 3. Enter server's IP address into your web browser, then login in to the server console. The default username and password for S4 is 'root'.

Through 'Network', you will be able to modify the server's IP address, and choose 'Save and Apply' after modifying it.



# S4 Server Manual

Last updated: 9/29/2014 Page 4 of 8

	<u> </u>	
System Miner Configuration Miner Status Network		
Network Settings		
Network setup for Miner		
Status	MAC-Addressn7C:66:9D:135:CD:E2	
Hostname	antMiner	
Protocol	DHCP	
IP Address		
Netmask		
Gateway		

# **3** Server Configuration

#### 3.1 Pool Setting

You can configure your server through ' Configuration->General Settings'.

Pool URL- In this column you should enter the URL of your desired pool.

Worker- This is your worker ID on the selected pool.

Password- This is the password for your selected worker.

#### Comment:

3.1.1 Server can be set up with three mining pools, the priority decreases from first pool (pool 1) to third pool (pool 3). The pool with low priority will start to work only when the high priority pool breaks down.

3.1.2 With 'Beeper ringing' checked, beeper will ring when the server stops mining, otherwise it won't ring even if the server stops mining.

3.1.3 With 'Stop running when temperature is over 80  $^{\circ}$ C' checked, the server will stop mining when the temperature exceeds 80  $^{\circ}$ C' to protect the server. If it 's unchecked, the server will still mine even in high temperature.

Click 'Save & Apply' to save and restart server.

stem Miner Configuration Miner Status Network		
neral Settings Advanced Settings		
er General Configuration		
-		
Pool 1		
URL	50.31.149.57:3333	
Worker	bitmainer_1	
Password	123	
Pool 2		
URL	stratum.antpool.com:3333	
Worker	antminer_1	
Password	123	
Pool-3		
URL	stratum.f2pool.com.25	
Worker	kuelei5151.2	
Password	123	
Setup		
Beeper ringing		
Stop running when temprerature is over 80å, f		



### **3.2 Frequency Modification**

You are able to modify the frequency value through 'Configuration->Advanced Settings'. E.g.: Voltage '0720' means operating voltage of chip is 0.72V. Voltage needs to be modified when adjusting the frequency.

ANTMINER		
System Miner Configuration Miner Status Network		
General Settings Advanced Settings		
Miner Advanced Configuration		
Settings		
Frequency	200M (default)	
Voltage	0720	
L		
		Save&Apply

### 4 Server Status

Click the status marked below, you can check the operating status of your server.

INER	Miner Configural	tion Miner Status 1	Vetwork		-	-	-	-	_			-	-	-			
Summa	iry					*****						****			+++++++++++++++++++++++++++++++++++++++		
	Elapsed	GH/S(5	s)	GH/S	(avg)		FoundBlocks		Utility		Loca	Work	9	wu		BestSha	re
	2d21h22m6s	1725.73	8	200	7.21		0		22.07		1487	10485	280	40.47		0	
Pools																	
Pool		URL	User	Status	Priority	GetWorks	Accepted	Rejected	Discarded	Stale	Diff	Diff1#	DiffA#	DiffR#	DiffS#	LSDiff	LSTim
0	http://5	0.31.149.57:3333	bitmainer 1	Alive	0	8950	91863	474	3160125	0	1.02K	110784064	94067712	485376	0	1024	0:00:0
1	http://stratu	m.antpool.com1:3333	antminer 1	Dead	1	0	0	0	0	0		0	0	0	0	0	0
2	http://5	0.31.149.57:3333	antminer 1	Alive	2	0	0	0	0	0	1.02K	0	0	0	0	0	0
total			_			8950	91863	474	3160125	0		110784064	94067712	485376	0		
HW		3240										0.0029%	0.0034%				
AntMin	er																
	Chain#	ASIC#	Frequen	су	Те	mp					ASI	C status					
	1	40	200			41			0000	0000 000	00000 00	000000 00000	000 00000000				
	2	40	200			38			0000	00000 000	00000 00	000000 00000	000 00000000				
	3	40	200		10	46			0000	0000 0000	00000 00	000000 000000	000000000000000000000000000000000000000				
	4	40	200		10	48			0000	0000 0000	00000 00	000000 000000	000 0000000				
	Fan#	Fa	in1			Fan	2			Far	3				Fan4		
10000			12.0			272	0			240	0				2600		

ASIC#: ASIC number in the chain Frequency: ASIC setting frequency Temp: Temperature, centigrade

ASIC status: o stands for OK, x stands for error.



# **5** System Configuration and status

### 5.1 System Upgrading

Through 'System->Upgrade', you will be able to upgrade your server.

INER						
ystem Miner Configuration Miner Status Network						
verview Administration Monitor Kernel Log Upgr	ide Reboot					
ograde						
Backup / Restore Click "Generate archive" to download a tar archive of the curr	ent 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	Perform reset				
To restore configuration files, you can upload a previously get	ierated backup archive here.					
Restore backup:	浏览					
Flash new firmware image Upload a sysupgrade-compatible image here to replace the ru	ning firmware. Check "Keep settings" to retain the current configuration.					
Flash new firmware image Upload a sysupgrade-compatible image here to replace the ru Keep settings:	nning firmware. Check "Keep settings" to retain the current configuration.					

'Keep setting' is chosen by default, you should choose it if you hope to preserve the current settings. You should cancel this option if you hope to restore to initial settings.

Click 'Browse' button to choose upgrade file. After choosing upgrade file, then click 'Flash image...' button, it will remind if upgrading software, start to download software after choosing upgrading software. During the upgrade process, you need to **wait patiently, and must keep power on, otherwise, the server should be shipped to factory to restore.** You will see bellow screenshot after upgrading successfully.



Choose 'Reboot' button, server will restart and run the new system. Choose 'Go Back', server will continue running the old system, will run new system when power on next time.

### 5.2 Password Modification

Through 'System->Administration', you can modify AntMiner login password, and choose 'Save' and 'Save and Apply' after modifying it.



Last updated: 9/29/2014 Page 7 of 8

I MINER		
System Miner Configuration Miner Status Network		
Overview Administration Monitor Kernel Log Upgrade	e Reboot	
Password		
Changes the administrator password for accessing the device		
Current Password	Lurrent Password	
New Password	New Password	
Confirmation	Confirmation Password	
		🙆 Reset 🖉 Save&Apply

### 5.3 Software Version Checking

Through 'System->Overview', you will be able to check the software version you used.

After upgrading the software, to check if you are using the latest version of software via 'File System Version'.

ANTMINER										
System Miner Configuration Miner Status Network	System Miner Configuration Miner Status Network									
Overview Administration Monitor Kernel Log Upgrade Reboot										
Overview										
System										
Miner Type	Antminer S4									
Hostname	antMiner									
Model	GNU/Linux									
Hardware Version	2.4.3.0									
Kernel Version	Linux 3.8.13 ∉65 SMP Wed Aug 6 17:17:59 CST 2014									
File System Version	Mon Sep 15 14:38:50 CST 2014									
Cgminer Version	3.12.0									
Uptime	10									
Load Average	3.07, 2.66, 1.49									
Memory										
Total Available	68804 kB / 509472 kB (14%)									
Free	440568 kB / 509472 kB (86%)									
Cached	0 K8 / 509472 K8 (0%)									
Buffered	164 kB / 509472 kB (00s)									
Network										
IP Status	201 Tratel 1007 Auforeau 1021681.6 800 Netmaaks 255.255.0									

### **5.4 Restore Initial Setting**

Press the 'Reset' button on the left bottom of LCD screen and hold on for 3 seconds, red led flashing every one second/1S. Release 'Reset' button, the server will restore the initial setting and restart automatically.



S4 Server Manual

Last updated: 9/29/2014 Page 7 of 8

#### **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 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.

設備名稱: ,型號:									
			有害物	勿质					
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	Ĩ	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									

#### 台湾 ROHS: