BITMAIN



AntMiner D3 Installation Guide

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1.Overview.

1. Overview

The AntMiner D3 is Bitmain's newest version in the AntMiner D3 series. It boasts a state-of-the-art BM1760 custom-made chip using 28nm technology. All AntMiners D3 are tested and configured prior to shipping to ensure easy set up.





Power supply unit is **not included**. Please provide your own ATX power supply.



1.Overview.

1.1 AntMiner D3 Components

The AntMiner D3 main components and controller front panel are shown in the following figure:





1.2 Specification

Hash Rate	17 GH/s±5%
Rated voltage	11.60 ~ 13.00V
Frequency	487M
Estimated wall outlet power consumption (with	
APW3, 93% efficiency, 25°C ambient temperature)	970W + 7%
Estimated wall outlet power efficiency (with	
APW3, 93% efficiency, 25°C ambient temperature)	57mJ/MH + 7%
Dimensions (L x W x H)	320mm*130mm*190mm
Net weight without packaging	4.2kg
Operating ambient temperature	0~40°C



The miner does not contain a DC/DC converter; therefore, higher input voltage will cause higher Mining efficiency.



2. Connecting the Power Supply

2. Connecting the Power Supply

Ten PCI-e connectors are located at the top of the AntMiner D3 for connecting the PSU as follows:

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

Each hashboard must be powered by the same PSU on both connectors to prevent

Possible damage and instability.

To connect the power supply:

1. Connect PSU power cable connectors to each of the nine PCI-e connectors on the top of the AntMiner D3, ensuring that each hash board is powered by the same PSU.



- 2. Connect a PSU power cable connector to the AntMiner D3 PCI-e connector on the controller.
- 3. Connect the network cable to the ETH port. (WIFI is unavailable for AntMiners)
- 4. To power up your AntMiner D3, connect the PSUs to the power wall outlet.







ANTMINER



Figure 2-2. PCI-E Connectors - Incorrect Connection

3. Setting Up the Miner

3. Setting Up the Miner

To set up the miner:

NTMINER

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 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 miners to mark the location of the miners.
 - Default suitable for home miners.
- 6. Click Start.

Shelf 1 Information NO. IP	Step 1	Posit	ion 1	Start	5
NO. IP	1				
					-
this is suitable for			MAC		
	farm miners to m				
if you're home mi	ter, you may lea	ve it as defa	ult directly.		
1.1.					
<					>
-					-
01110	Stop		Export	Quit	
Skip				Quit	



3. Setting Up the Miner



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.

	I	P Reporter		
Shelf 1	Step 1	Position	n 1	Start ×
n 1		Similation		
	IP 1010.70.12	23		
	MAC 6C:EC:EB:	62:39:F2		
PC	DSITION 1-1			
	ОК	Skip	Stop	
Skip	Stop	E	xport	Quit

- 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 Static IP address (optional).

11.	Click	Save	&	Арр	ly
-----	-------	------	---	-----	----

MINER System Miner Configuration Miner Status Net	work	
System Miner Configuration Miner Status Net Settings Diagnostics	work	
Network Settings		
Network setup for Miner		
Status	MAC-Address:D4:36:39:11:49:88 IP:192.168.200.15 Netmask:255.255.254.0	
Hostname	antMiner	
Protocol	DHCP ¢	
IP Address		
Netmask		
Gateway		
DNS Servers		
		Reset Save&Apply
	Copyright © 2013-2014, Bitmain Technologies	Crister Carter (p)

4. Configuring the Miner

ANTMINER

4. Configuring the Miner

4.1 Setting Up the Pool

To configure the miner:

- 1. In Miner Configuration, click General Settings.
- 2. Set the options according to the following table:

Option	Description
Pool URL	Enter the URL of your desired pool. The AntMiner D3 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.

er General Configuration		
Pool 1		
URL	stratum-dash.antpool.com:6099	
Worker	antminer_1	
Password	123	
Pool 2		
URL	stratum-dash.antpool.com:443	
Worker	antminer_1	
Password	123	
Pool 3		
URL	stratum-dash.antpool.com:25	
Worker	antminer_1	
Password	123	
Setup		
Customize the fan speed percentage	□ □ %	



4.2 Modifying the Frequency

You are able to modify the frequency value through 'Miner Configuration —>Advanced Settings'.

Bitmain recommend a default frequency of AntMiner D3, and Overlocking the miner will void the warranty immediately.

System Miner Configuration Miner Status Network		
General Settings Advanced Settings		
Ainer Advanced Configuration		
Settings Frequency	Default setting	
		Reset Save&Appl



5. Monitoring Your Miner

5. Monitoring Your Miner

To check the operating status of your miner:

1. Click Miner Status.

2. Under AntMiner, monitor your miner 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 miner 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

ner St	atus																		
Summa	ary																		
	Elapsed	d	MH/S(RT)		MH/S(a	vg)		FoundB	locks		LocalV	Vork		Utility	,	wu		BestShare	8
	32m42s	S	17,106.6		17,462.	53		0			10,6	01		5.78	22	25.03		449552	
Pools																			
Pool			URL		User	Status	Diff	GetWorks	Priority	Accepted	Nonce#	DiffA#	DiffR#	DiffS#	Rejected	Discarded	Stale	LSDiff	LSTi
0	stra	atum+tcp://	stratum-dash.antpoo	l.com:6099	Avery1989.03	L Alive	32.0000	50	0	189	63,852	7,360	0	0	0	1,070	0	32	0:00
1	str	ratum+tcp://	stratum-dash.antpod	ol.com:443	Avery1989_0	1 Alive	64.0000	3	1	0	0	0	0	0	0	0	0	0	Nev
2	st	tratum+tcp:/	/stratum-dash.antpo	ol.com:25	antminer_1	Dead	0.0000	0	2	0	0	0	0	0	0	0	0	0	Nev
total								53		189	63,852	7,360	0	0	0	1,070	0		
HW			4								0.0063%	0.0543%							
AntMin	er																		
Chair	1#	ASIC#	Frequency	MH/S(RT)	нw	Temp(PCB)	Temp(Chip)	ASIC status										
1		60	487	5680.34	0	56		69					0000000 0000	0000 0000000	0000				
2		60	487	5714.23	4	54		67	00000000 0000000 0000000			00000000	0000000 0	0000000 0000	00000 0000000	0000			
3		60	487	5712.02	0	57		71			0000000	00000000	00000000 (0000000 0	0000000 0000	00000 0000000	0000		
	Fan#				Far	1								F	an2				
Sne	ed (r/n	nin)			4,2	90								4	,290				

Note: The D3 miner will stop running when the Temp(PCB) exceeds to 85°C, there will be an error message "Fatal Error: Temperature is too high!" shown in the bottom of kernel log page.

6. Administering Your Miner



6. Administering Your Miner

6.1 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 miner use. (Screenshot below of S9 AntMiner just for your reference to display the message, the message shows on your computer shall prevail.

System Miner Configuration Miner Status	Network	
Overview Administration Monitor Kernel	Log Upgrade Reboot	
Overview		
System		
Miner Type	AntMiner S9	
Hostname	antMiner	
Model	GNU/Linux	
Hardware Version	0.1.1.0	
Kernel Version	Linux 3.10.31-Itsi-00003-qcf03eb9 #81 SMP Mon Apr 25 11:20:36 CST 2016	
File System Version	Fri May 27 11:57:58 CST 2016	
Cgminer Version	4.9.0	
Uptime	4 10 10 10 10 10 10 10 10 10 10 10 10 10	
Load Average	0.70, 0.71, 0.68	
Memory		
Total Available	27540 kB / 1016172 kB (3%)	
Free	988632 kB / 1016172 kB (97%)	
Cached	0 kB / 1016172 kB (0%)	
Buffered	0 kB / 1016172 kB (0%)	
Network		
IP Status	Type: DHCP Address: 192.168.20.30 MbD: Maraski: 255.254.0	

6.2 Upgrading Your System

Make sure that the AntMiner D3 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 miner's firmware:

1. In System, click Upgrade.

tem Miner Configuration Miner Status Network		
view Administration Monitor Kernel Log	Upgrade Reboot	
rade		
Backup / Restore		
	he current configuration files. To reset the firmware t	b 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 previ	usly generated backup archive here.	
Restore backup:	选择文件 未选择任何文件	Upload archive
Flash new firmware image Upload a sysupgrade-compatible image here to repla	e the running firmware. Check "Keep settings" to reta	n the current configuration.
Keep settings:	8	
Image:	选择文件 未选择任何文件	Flash image

- 2. For Keep Settings:
 - Select the check box to keep your current settings (default).
 - Clear the check box to reset the miner 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 AntMiner D3 firmware can be upgraded and if yes, will then



proceed to flash the image. (Note: Please do not extract the update file and keep the power on during updating firmware or otherwise the AntMiner need to be returned to the factory to repair. And around two minutes will be needed to complete updating.)

System Miner Configurati	ion Miner Status Ne	twork		
Overview Administration	Monitor Kernel Log	Upgrade	Reboot	
pgrade				
	ige			
pgrade	ige			

3. When the upgrade is completed successfully, the following message will appear: (Screenshot below of S9 AntMiner just for your reference to show the message, the message shows on your computer shall prevail.).



6.3 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	
assword			
hanges the administrator passy	ord for accessing the device		
Current Password		Current Password	
New Password		New Password	
Confirmation		Confirmation Password	

6.4 Restoring Initial Settings

To restore your initial settings, two methods below for your reference.

1. Turn on the miner and let it run for 5 minutes.



2. On the controller front panel, press and hold the **Reset** button for 10 seconds.



Resetting your miner will reboot it and restore its default settings. The red LED will automatically flash once every 15 seconds if the reset is operated successfully.