# BITMAIN

# AntMiner S3 Manual



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# **1** Overview

AntMiner S3 is the third generation Bitcoin Mining Rig, which uses the state of the art BM1382 chip powered by the 28nm tech process with ultra-low power consumption, has been assembled before Fab out.



Notice:

- 1. You should prepare your own ATX Power Supply.
- 2. WIFI antenna not Included.

# 2 Power Supply

One AntMiner contains four power sockets, which are formed into two groups as below. Only two sockets are enough to support one unit, but one of the two sockets of each group must be connected to 12V Power line. Note not to reverse positive (+12V) to negative (GND).



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#### **3** Connect to Miner

#### 3.1 WAN setting

Step 1. Connect AntMiner and your PC via Ethernet network cable.

Step 2. Enter AntMiner's IP address: 192.168.1.99 into your web browser, then login Miner Management interface, both of username and password are 'root' by default.

Step 3. Modify the IP address of the WAN interface. Click "Network->Interfaces->WAN" to modify the IP address of WAN in the following page.

\*\*\* If you decide to change the AntMiner's IP address, Please Write It Down & DO NOT FORGET

it. If you forget the IP address, you will not be able to access AntMiner again. \*\*\*

	Ŷ 免费wr
tatus System Network Logout	Autor Frend Director
AVAN LAN	ROUCES FIREWall Diagnostics
WAN LAN	
nterfaces - WAN	
On this page you can configure the network interface 'ou can also use VLAN notation INTERFACE. VLANNR (e.g.:	s. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by space stud. 1.
Common Configuration	
General Setup Advanced Settings Physical Setting	and Firewall Settings
Status	Uptime: 6h 9m 44s MAC-Address: 20:59:A0:C3:3F:06 eth 1R: 2:99 MB [1663 Pkts.] eth 1R: 2:56 MB (10690 Pkts.] IPv4: 19:2.168.199/24
Protocol	Static address
IPv4 address	192.168.1.99
IPv4 netmask	255.255.0
IPv4 gateway	192.168.1.1
IPv4 broadcast	192.169.1.255
Use custom DNS servers	192.168.1.1
DHCP Server	
General Setup	
Ignore interface	* • Disable <u>DHCP</u> for this interface.
	a Danet a Save a Pour 6
	Whether Works and Wo



# 4 Pool Setting

Through 'Status->Miner Configuration ', you will be able to configure your AntMiner.

Pool URL- 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. In general password can be set casually.

#### Comment:

\*AntMiner can set up three mine pools, the priority decreases from first pool (pool 1) to third pool (pool 3). There are three Pool Balance option:

Failover: Automatic backup when Miner faults; 'Failover' is by default. **The low priority pool will** start to work, only when the high priority pool encounter fault.

Balance: Change multipool strategy from failover to even share balance.

Load Balance: Change multipool strategy from failover to quota based balance.

\*Beeper ringing option

True: Beeper is to alert once the AntMiner stops mining. 'True' is by default.

False: Beeper won't alert, even if the AntMiner stops mining.

\* Stop running when temperature is over 80 degrees centigrade option

True: AntMiner does not mine if the temperature is over 80 degrees centigrade to protect the AntMiner. 'True' is by default.

False: AntMiner continues mining even in high temperature.

verview Firewall Routes System Ion Kernellon I	Processes Realtime Graphs Miner Con	figuration Miner Status			
nfiguration					
Pool 1	50.31.149.57:3333				
Pool1 worker	antminer_1				
Pool1 password	123				
Pool 2	http://stratum.antpool.com:6688				
Pool2 worker	bm1_1				
Pool2 password	123				
Pool 3	stratum+tcp://stratum.50btc.com:3333				
Pool3 worker	info@bitmaintech.com				
Pool3 password	123				
Pool Balance(Default: Failover)	Failover	-			
Beeper ringing(Default: true)	true	-			
Stop running when temprerature is over 80 degrees centigrade(Default: true)	true	No.			



### 5 Miner Status

#### 5.1 Miner Status web page

Through 'Status->Miner Status', you will be able to check your AntMiner running status.

Status S	ystem Netwo	rk Logout															
Overview	Firewall Rout	tes System Lo	g Kernel Log Pr	ocesses	Realtime Gr	aphs Mine	er Configurat	ion Miner	Status								
iner <mark>Sta</mark> t	tus																
Summary	y																
Elapsed	GH/S(5s)	GH/S(avg)	FoundBlocks	Getworks	Accept	ed Reje	cted HW	Utility	Discarded	Stale	Local	Work	wu	DiffA	DiffR Di	iffs Be	estShare
36m 2s	412.36	440.87	0	45	214	0	0	5	3,579	0	395,	703	6,158 2	19,136	0	0	0
Pools																	
Pool	UR	L	User	Status	Priority	GetWorks	Accepted	Rejected	Discarded	Stale	Diff	Diff1#	DiffA#	DiffR#	DiffS#	LSDiff	LSTim
0	http://192.168	.110.60:3333	antminer_44_133	Alive	0	43	214	0	3579	0	1.02K	4192	219136	0	0	1024	0:00:0
1	http://50.31.1	149.57:3333	antminer_133	Alive	1	2	0	0	0	0	128	0	0	0	0	0	Never
2 h	http://stratum.an	tpool.com:3333	antminer_44_133	Dead	2	0	0	0	0	0		0	0	0	0	0	Never
AntMiner																	
	Chain#	As	SIC#		Frequency		Fa	in	Temp					ASIC sta	tus		
	1 16		218.75			2220 42			00000000 00000000								
	2		16		218.75		21	00	43				000	00000 00	000000		

ASIC#: The number of ASIC in the chain Fan: Fan speed Temp: Temperature, centigrade Frequency: ASIC setting frequency ASIC status: o stands for OK, x stands for error.

#### 5.2 LED status during boot procedure

- 1. When power on, Red LED flashes on and off, Green LED is off, the LEDs (Yellow LED and Green LED) for Ethernet interface are off.
- 2. When upgrading, the Red LED flashes on and off quick, and changes to be on after finishing upgrade. If AntMiner doesn't upgrade the firmware, Red LED flashes on one time then into STANDBY Mode.
- 3. LEDs (Yellow LED and Green LED) for Ethernet interface, Yellow LED is on, Green LED flashes on and off.
- 4. Start to mine, Red LED is off, Green LED flashes quick.
- 5. Stop mining, AntMiner switches to STANDBY Mode.

#### 5.3 Fault Indication: Beeper and LED status

1. Beeper rings by default when AntMiner faults. You are able to configure if beeper ring alarm through 'Status-> Miner Configuration'. You are also able to configure if AntMiner is continuing mining when the ambient temperature is higher than 80 degrees centigrade on



the same page.

- AntMiner runs normally, Green LED flashes quickly. AntMiner is in the STANDBY Mode, Green LED flashes every 1 second. Green LED flashes every 1 second and Beeper rings if the Ethernet network breaks.
- 3. AntMiner runs normally, Red LED is off. When the ambient temperature is higher than 80 degrees centigrade, and one fan only is spinning, the Red LED flashes every 1 second; When the ambient temperature is higher than 80 degrees centigrade, and all fans do not spin up, the Red LED is on, beeper rings; Two fans do not spin up only, the Red LED is on.

#### **6** System Configuration

#### 6.1 Password Modification

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

:	Status	System Net	work Lo	gout				
	System Administration Software Startup			Scheduled Tasks	LED Configuration	Backup / Flash Firmware	Reboot	
R	Router Password							
Cł	Changes the administrator password for accessing the device							
	Password				<u>&gt;</u>			
	Confirmation			2				

#### 6.2 System Upgrade

Through 'System->Backup / Flash Firmware' you will be able to upgrade your AntMiner.

Status System Network Logout		
System Administration Software Startup	Scheduled Tasks LED Configuration	ackup / Flash Firmware Reboot
Flash operations		
Actions Configuration		
Backup / Restore Click "Generate archive" to download a tar archive o	f 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 prev	iously generated backup archive here.	
Restore backup:		浏览… I I Upload archive
Flash new firmware image		
Upload a sysupgrade-compatible image here to repl	ace the running firmware. Check "Keep settin	gs" to retain the current configuration (requires an OpenWrt compatible firmware image).
Keep settings:		<b>X</b>
Image:		(1) 测览) 国 Flash image

'Keep settings' is chosen by default, you should choose it if you hope to preserve the current



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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 to start to download this file to your system. After downloading, please click 'Proceed' button, then upgrade system. During the upgrade process, you need to **wait patiently, and must keep power on, otherwise, AntMiner will restore to initial settings.** AntMiner will be connected to login interface after finishing system upgrade.