



# BITMAIN AntMiner S3 Bitcoin Miner User Manual

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BITMAIN

AntMiner S3 Manual

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## 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, which has been assembled before Fab out.

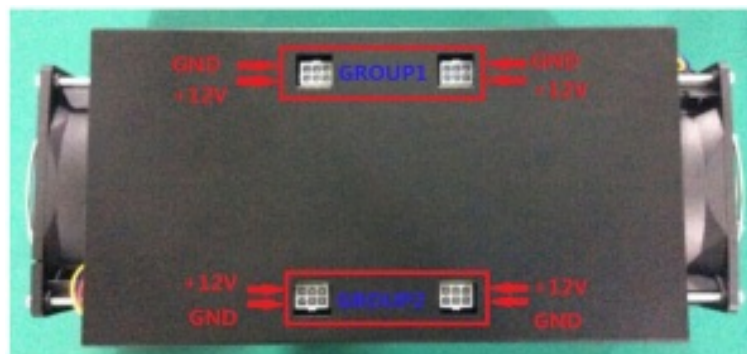


**Notice:**

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 a 12V Power line. Note not to reverse positive (+12V) to negative (GND).



**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 on 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. \*\*\*

## 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, passwords can be set casually.

### Comment:

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

## Miner Status

### 5.1 Miner Status web page

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

**ANTMINER**

Status System Network Logout

Overview Firewall Routes System Log Kernel Log Processes Realtime Graphs Miner Configuration **Miner Status**

**Miner Status**

Summary

Elapsed	GH/5[5s]	GH/5[avg]	FoundBlocks	Getworks	Accepted	Rejected	HW	Utility	Discarded	Stale	LocalWork	WU	DiffA	DiffR	DiffS	BestShare
36m 2s	412.36	440.87	0	45	214	0	0	5	3,579	0	395,703	6,158	219,136	0	0	0

Pools

Pool	URL	User	Status	Priority	GetWorks	Accepted	Rejected	Discarded	Stale	Diff	Diff1#	DiffA#	DiffR#	DiffS#	LSDiff	LSTime
0	http://192.168.110.60:3333	antminer_44_133	Alive	0	43	214	0	3579	0	1.02K	4192	219136	0	0	1024	0:00:05
1	http://50.31.149.57:3333	antminer_133	Alive	1	2	0	0	0	0	128	0	0	0	0	0	Never
2	http://stratum.antpool.com:3333	antminer_44_133	Dead	2	0	0	0	0	0	0	0	0	0	0	0	Never

AntMiner

Chain#	ASIC#	Frequency	Fan	Temp	ASIC status
1	16	218.75	2220	42	oooooooooooooooo
2	16	218.75	2100	43	oooooooooooooooo

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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 the boot procedure

1. When power is on, Red LED flashes on and off, the Green LED is off, the LEDs (Yellow LED and Green LED) for the Ethernet interface are off.
2. When upgrading, the Red LED flashes on and off quickly, and changes to be on after finishing the 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.
2. 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.

## System Configuration

### 6.1 Password Modification

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

## 6.2 System Upgrade

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

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

**AntMiner S3 Manual**  
**Last updated: 7/18/2014**

## Documents / Resources

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