



Whats Miner All-in-one machine operation instruction

(Lite version)

V1.2(H3 platform)



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1. Introduction of M3 Integrated Miner



Whatsminer M3 integrated miner Bitcoin miner The product parameters are as follows: Computational power: 12TH/S Chip: 189 28nm ASIC Power consumption: 0.18~0.19kw/TH Supporting Power supply: Shenma Power supply P5 (220vU 2250W) Control board: with ambient temperature: -5 °C ~ 40 °C whole miner size: 375mm*130mm*225mm

2.Mine wiring, safety warning for operation on the shelf

2.1.Matters needing attention in connection of Miner

Mine machine 12V power line, power supply control line, fan line must be correctly connected, if due to the connection error, resulting in control board,

force board burning, the whole miner and veneer will not belong to the scope of warranty!

2.1.1.Points for attention in connection of Control Panel 12V Power Line

When connecting the power cord of the control board, the plug of the power cord and the clasp at the two ends of the power outlet of the control board must correspond to each other, and the plug of the power cord cannot be inserted into the control board socket by force. If backplugged, power on could burn down the control board and burn out the signal wiring

Correct connection of power cord plugs and sockets:



Wrong connection of power cord plugs and sockets:





2.1.2. Matters needing attention in connection of Power supply Control Line

The power supply control line is 3pin red, black and yellow wire, 3 small ports face out, the slot is inserted relative bit:



2.1.3. Matters needing attention in connection of Fan Line

Fan line is 4pin blue, yellow and red black line, 4 small mouth outside, card slot relative bit insert:



2.1.4. Matters needing attention in data wiring connection of Force Plate



2.1.5. Matters needing attention in connection of 12V Power Line with Power Plate

When connecting the power cord of the force board, the power cord connecting post and terminal must correspond to each other (yellow power cord is connected to the red cable, and the red pole is connected to the positive pole (V);). The black power cord is connected to the black pole, and the black pole is connected to the negative pole (V-), which is tightened with screws. If the connection is reversed, the power supply may burn down the miner.

Correct connection method of power cord connecting post and terminal:



2.1.6. Miner wiring inspection

After all miner onnections are connected, check again to confirm that the connection is correct.



2.2. Miner handling, on the shelf operation points for attention

In the process of ore miner handling and loading, data wire arrangement, power control line, fan wire are strictly prohibited as lifting handle, lifting miner and power supply. By connecting the teena miner and the power supply, the connection will be damaged, the connection will be loosened, and the control board will be physically damaged over the carrying capacity. The resulting hardware damage and failure will not belong to the scope of warranty!



3. Miner configuration environment preparation

3.1.Miner configuration equipment list

Serial	Serial number	Serial	Serial number tool name	Serial number tool
1	1 computer 1	1	1 computer 1 mine	
2	minemacher	1	Configuration of miner	
3	network switch	1	Configuration of miner and	Network switches can connect to
4	DHCP/NTP server / router 1, provides dynamic IP address 2 for initial power	DHCP/ NTP server / router	DHCP/NTP server / router 1, provides dynamic IP address 2 for initial power on the miner machine, and ntp network time miner	DHCP/NTP server / router 1, provides dynamic IP address 2 for initial power on the miner,

3.2. Miner network environment



By default, DHCP acquires dynamic ip, by default, so DHCP servers must be configured in the mine network, or the dhcp dynamic ip address service must be turned on by the router. The running time of miner and the correctness of calculation force statistics depend on the network ntp time. By default, the miner has multiple ntp server addresses of public network. In order to speed up the speed of obtaining network time by ntp and improve the time precision, It is recommended that a local ntp server be configured in the mine network.

4. Mine machine connection and check before power on

(1) before connection and electrification, the miner shakes the miner in accordance with the warning signs on the side of the miner to check whether any radiator or other device is off, to ensure that there is no radiator or other period of abscission before connection and power up. (2) the miner is connected to the power cord, the network port is connected to the switch, the control line of the power supply is connected to the I2C socket of the control board, and the signal wiring, the power control line and the fan control line are checked, so as to ensure



that the connection is correct, In order to power the miner.

Note: (1) 12V power cord connection post and terminal, control board power cord socket outlet corresponding to ensure the correct connection of the power source positive and negative pole, otherwise the power line positive and negative pole connection, it is possible to burn the power board, control board or power supply, Hardware damage due to power cord connection is not covered by warranty. (2) the power supply control line must be connected between the control board and the power supply, otherwise, the problem of low calculation force may be caused by the failure to control the output of the power supply voltage. (3) the control panel must be reliably connected with the fan line. If the fan line falls off or the connection is bad, it may cause the miner to be unable to cool down, and the load plate can be operated at lower frequency. In 2003, the calculation power decreased.

5.Mine data configuration (configured on the web page)

5.1. Query dynamic ip address obtained by miner

5.1.1.Running WhatsMinerTools Software

The data of miner is configured with PC connected to the same network where the miner is located, running the WhatsMinerTools software on PC, selecting the "probe ip" tab, setting the room number, rack number, layer number on the rack, and position number of the layer in which the miner is located. Click start.

Petert 17	Shelf: 1 Layer: 1	work Miner Status Position: 1 Step: 1	Start Shop	Skip Clear
ID	1P Addr	MAC Addr	Position	Time

5.1.2.Query the ip address reported by the miner

The main results are as follows: (1) after 30 s, the yellow light and green light of the net are always on and the green light twinkles under normal conditions. When the IPFOUND function button (prominent long button) is pressed on the panel of the miner control board, the two LED indicator lights on the right flicker several times, indicating that the miner has broadcast the IP and MAC addresses of the miner to the network.



(2) In the WhatsMinerTools software to view the dynamic access to the miner reported IP, MAC address, miner location.

Room: 1	Shelf: 1 Layer: 1	Position: 5 Step: 1	Start Sto	p Skip Clear
D	IP Addr	MAC Addr	Position	Time
	192.168.2.107	c0:08:02:00:76:13	1-1-1-1	2017-10-21 15:50:25
	192.168.2.118	c0:08:02:00:26:36	1-1-1-2	2017-10-21 15:50:29
	192.168.2.104 192.168.2.157	c0:08:02:00:0b:8c ea:a4:fa:9a:e6:40	1-1-1-3	2017-10-21 15:50:34 2017-10-21 15:51:30

Note: (1) if all the lights in the control panel of the miner are not on after the power is turned on, please check the 220V power supply line, the 12V power cord connection is reliable and the connection is correct. (2) if the indicator light on the right side of the miner control panel is not on, or the green light does not flash, please check whether the switch is normal, whether the connection is reliable, and whether the quality of the wire is defective. (3) the computer and miner running WhatsMinerTools software must be under the same net segment, otherwise it is possible that the software can not receive the broadcast message from the miner, so that the miner cannot be queried. Ipfound key reported ip address and mac address information. (4) if the computer and the miner are under the same network segment, and the dhcp service is turned on in the network, after pressing the ipfound button of the miner, the WhatsMinerTools software does not inquire about the ip, length of the miner and presses the reset button on the miner panel for more than 5s, so that the default configuration of the factory is restored. Then reboot the miner, then press the ipfound button to detect the ip address of the miner after 30 s. (5) if the computer is running WhatsMinerTo Ols software, click "start", not manually press the ipfound button, the software automatically found the miner's ip address, mac address, at this time, the miner's ipfound key may be stuck by the surface plate, Find the miner that shows the mac address in the software (the miner panel has mac address bar code), then reinstall the control panel to make sure that the control panel button and indicator light reveal the installation hole, and there is no jam.

MicroBT 5.2.Mining Pool & Miner data and configuration NTP Server address

5.2.1. Mining Pool & miner disposition

(1) after logging in, go to the Cgminer configuration page. (2) in the Cgminer configuration interface, modify mining pool address, miner name, and after modification, click "Save & Application" n the lower right corner to save the modified configuration.

	WhatsMiner	Status -	System -	Configuration -	Logo
	Configuratio				
	Please visit https://m	nicrobt.com	/support/ fo	r support.	
	NTP Service(E	Default: Global)	Global	v	
of the miner.	ntp p 192.168		-p 0.pool.nt	p.org -p 0.asia.poo	
JI UIG MINEI.	主矿池	Pool 1	stratum+tcp	://stratum.f2poo 🔻	
	Pool1	worker	microbt.init		
er	Pool1 pa	issword	1234		1
	备用矿池1	Pool 2	stratum+tcp	://stratum.bixin.(🔻	
	Pool2	worker	microbtinit.t	est	
	Pool2 par	ssword	1234		
	备用矿池2	Pool 3	stratum+tcp	://stratum.bixin.e 🔻	
	Pool3	worker	microbtinit.t	est	
	Pool3 pa	ssword	1234		

After the mine pool configuration is modified, the modified configuration must restart the cgminer program or the control panel before the modified configuration can take effect.

(3) Restart cgminer, to check that configuration changes take effect. In the miner interface, select: Status- > CGMinerStatus, into the CGMiner running state interface.

WhatsMir		<u> </u>	← Config	juration – Log	jout				
CGMin Please visit ht Summary	er St CGM tps://mic Syste		her t						
Elapsed	GHSav	Acce	pted	Rejected	NetworkBlocks	Bes	tShare	FanSpeedIn	FanSpeedOu
1h 43m 7s	1 <mark>2486.83</mark>	402		0	10	9,19	2,946	4,770	4,710
Devices	Enabled	Status	GHSav	GH\$5s	GH\$1m	GHS5m	GHS15m	LastValidV	Vork
SM0	Y	Alive	4211.90	4279.19	4350.12	4185.53	4167.47	Mon Mar 1	9 20:29:03 2018
SM1	Y	Alive	4093.00	5452.71	4225.56	4144.22	4147.67		9 20:29:03 2018
SM2	Y	Alive	4181.50	4605.47	4059.31	4094.05	417 <mark>2.26</mark>	Mon Mar 1	9 20:29:03 2018
Device	Frequency(avg)	Upfree	Completed	Effective	eChips	Tempe	rature1	Temperature2
SM0	672		1		63		85.00		0.00

In the cgminer status interface, click RestartCGMiner to restart the cgminer process.

WhatsMin	er Status -	System - Co	nfiguration - L	ogout			
	r Status	Restart CGMine	ır				
Elapsed	GHSav	Accepted	Rejected	NetworkBlocks	BestShare	FanSpeedIn	FanSpeedOut
1h 43m 7s	12486.83	402	0	10	9,192,946	4,770	4,710

(4) restart the control panel and check whether the configuration changes are effective. (if you do not choose to restart cgminer, configuration changes saved, you can also restart the control panel, so that the configuration takes effect) in the system interface, click "Reboot".

	er Status	7 (Girmin	stration						
Summary									
Elapsed	GHSav	Accep	oted	Rejected	NetworkBlocks	Bes	tShare	FanSpeedIn	FanSpeedOu
1h 43m 7s	12486.83	402		0	10	9,19	02,946	4,770	4,710
Devices									
Device	Enabled	Status	GHSav	GHS5s	GHS1m	GHS5m	GHS15m	LastValidV	/ork
SM0	Y	Alive	42 <mark>1</mark> 1.90	4279.19	4350.12	4185.53	4167.47	Mon Mar 1	20:29:03 2018
SM1	Υ	Alive	4093.00	5452.71	4225.56	4144.22	4147.67	Mon Mar 1	9 20:29:03 2018
SM2	Y	Alive	4181.50	4605.47	4059.31	409 <mark>4</mark> .05	4172.26	Mon Mar 19	9 20:29:03 2018
Device	Frequency(a	avg)	Upfree	qCompleted	Effectiv	eChips	Tempe	erature1	Temperature2

In the restart screen, click Perform reboot for restart confirmation.

WhatsMiner	Status -	System +	Configuration -	Logout
Reboot				
Reboots the operating	g system of y	our device		
Perform reboot	1			
T enoint reboot				
Powered by LuCI Mas	ster (git-16.3	36.70424-1fd	43b4) / OpenWrt D	esignated Driver 50046

After restarting about half a minute, the miner system will automatically jump to the

login interface.

5.2.2.Modify the address of the ntp synchronization server (optional)

(1) after login, select: Configuration- > CGMiner Configuration, in the interface to enter the Cgminer configuration page.

WhatsMiner Status -	System - Configuration - Logout
Configuration Please visit https://microbt.com/s	Interfaces CGMiner Configuration
NTP Service(Default: Global)	Global
ntp pools(-p 192.168.1.100)	-p 0.pool.ntp.org -p 0.asia.pool.ntp.
Pool 1	stratum+tcp://stratum.f2pool.com ¥
Pool1 worker	microbt.init
Pool1 password	1234
Pool 2	stratum+tcp://stratum.bixin.com:: *
Pool2 worker	microbtinit.test
Pool2 password	1234
Pool 3	stratum+tcp://stratum.bixin.com: *
Pool3 worker	microbtinit.test

(2) in the cgminer configuration interface, the address of four ntp servers has been configured by default when the ntp server address is added or modified, and the address of the ntp server can be modified or added to the local ntp server address according to the situation of the mine.

WhatsMiner	Status -	System -	Configuration +	Logout
Configurati	on			
Please visit https://mic		ipport/ for sup	oport.	
NTP Service(Defaul	t: Global)	ASIA		T
ntp pools(-p 192.16	68.1.100)	-p 0.pool.nt	p.org -p 0.asia.poo	l.ntp.

Default ntp server configuration: -p 3. asia.pool.ntp.org -p 2. cn. pool.ntp.org -p 1. cn. pool.ntp.org -p0. cn. pool.ntp. org followed by the ntp server domain name or ip address, The ntp server address can be modified or added according to the situation of the mine.

(3) after modifying the address of the ntp server, click "Save & Application" in the lower right corner.

5.3. Configure miner static IP address (optional)

The IP address obtained by miner DHCP is modified to static IP address of miner operation network planning.

(1) input the queried miner dynamic ip, in the browser with root user, default password: root, login miner interface.

root		
	quired password.	password.

(2) after logging into the miner, select: Configuration- > Interfaces, to enter the configuration interface of the network interface in the miner interface.

WhatsMiner	Status - System - Configuration - Logout
Status	Interfaces CGMiner Configuration
System	
Model	WhatsMiner M3
Hostname	M3.HB10.ZYNQ-CB12.P3
Firmware Version	20171106.10.1.FV
Kernel Version	#60 SMP PREEMPT Wed Jun 28 18:59:24 CST 2017
CGMiner Version	4.9.2-20171031-git-3121900
Local Time	Wed Nov 15 11:09:06 2017
Uptime	1h 6m 24s
Load Average	2.32, 2.00, 1.85

(3) in the "Configuration" interface, click "Edit"

WhatsMine	🖌 Status 👻 System 👻 Configuration 👻 Logout	
LAN		
Interface	s	
Interface O	verview	
Network	Status	Actions
LAN	Uptime: 1h 9m 14s MAC-Address: B0:03:20:00:02:07	Z Edit
eth0	RX: 40.58 MB (872638 Pkts.)	*
euro	TX: 5.81 MB (16335 Pkts.) IPv4: 192.168.2.172/24	

(4) in the interface modification interface, the protocol (protocol) selects "Static address" and then clicks "Switch protocol".

LAN			
			e interfaces" field and enter the names of several
juration			
Status	eth0	Uptime: 0h 7m 49s MAC-Address: 36:8C:E5:AA:B9:CD RX: 6.18 MB (100153 Pkts.)	
		TX: 808.22 KB (2554 Pkts.) IPv4: 192.168.2.112/24	
Protocol	address	×	
rotocol?	witch protocol		
Back to O	verview		Save & Apply
	ponfigure the networrated by spaces. guration Status Protocol Static rotocol?	onfigure the network interfaces. Yn rated by spaces. You can also us guration Status Etato Protocol Static address	Infigure the network interfaces. You can bridge several interfaces by ticking the "bridge rated by spaces. You can also use <u>VLAN</u> notation INTERFACE. VLANRE (e.g.: eth0. 1). puration Status Uptime: Oh 7m 49s MAC.Address: 36 8C:E5.AA:B9:CD RX: 6.18 MB (100153 Pkts.) IFV4: 192.168.2.112/24 Protocol Static address otocol? Static address Status Status Mac.Address: Status

(5) in the static address configuration interface, the IP address, mask, gateway, broadcast address and DNS address are changed to the actual planned address of the miner. Click "Save & Apply" in the lower right corner after modification.

Status	eth0	Uptime: 0h 11m 47s MAC-Address: 36:8C:E5:AA:B9:CD RX: 9.29 MB (150598 Pkts.) TX: 1.19 MB (3875 Pkts.) IPv4: 192.168.2.112/24	
Protocol	Static address	×	
IPv4 address	192.168.1.221		
IPv4 netmask	255.255.0.0	×	
IPv4 gateway	192.168.0.1		
IPv4 broadcast	192.168.255.255		
Use custom DNS servers	192.168.0.1	<u>ta</u>	
E Ba	ack to Overview		Save & Apply



保存应用后,需要重新用新设置的静态 IP 地址才能登录矿机(否则一直页面显示 加载中直到加载失败)。

After saving the application, you need to re-use the newly set static IP address to log in to the miner (otherwise, the page appears loaded until the load fails).

5.4. English and Chinese language switching of Miner Page

WhatsMiner Status -	System - Configuration - Logout	AUTO REFRESH ON
System Here you can configure the basic	System Administration Reboot s hostname or the timezone.	
System Properties		
General Settings Logging	Language and Style	
Language Design	中文 (Chinese) Bootstrap	如果进行中英文语言 切换,勾选后点击保 存按钮 Save & Apply

6.Miner running condition check

After the ore miner is connected to the running network, log in the miner and check the running state of the miner.

(1) in the miner interface, choose: Status- > CGMiner Status, to enter the cgminer running state interface.

(2) check the whole calculation force of miner, the speed of fan before and after, connect mining pool, single board calculation force, single board temperature and so on.

	TOLATI	ash rate					Con 1	In/Out	t fan s	pee	d	
osed	GHSav Accepted		Rejecte	Rejected NetworkBlock		BestShare		FanSpeedin Fan		SpeedOut		
245	11660.74	127	0	3		3,454	424	6,180	5,70	0		
ices	Hash	rate of ea	ch ha	sh board	ł							
ice	Enabled	Status GHS	2V (GHS5s GH	S1m	GHS5m	GH\$15m	LastVa	lidWork			
)	Y	Alive 3894	24	1641.29 363	4.71	3725,55	3076.84	Wed O	ct 25 18 17 0	07 2017		
ė.	Y	Alive 3836	17	4966.14 397	9.61	3799.78	3048.78	Wed O	Wed Oct 25 18:17:07 2017			
2	Y	Alive 3929	40 3	3727.72 398	7.42	3940.95	3145.07	Wed O	et 25 18:17:0	7 2017		
ice	Frequency	(avg) Up	freqComp	leted	Effectiv	eChips	Tempe	rature1	Temp	erature2		
)	635	1			63		86.50		0.00			
c.	635	1			63		85.00		0.00			
E.	635	Ť.			63		85.50		0.00			
				Effectiv each ha				highes hash			iture (of
ols			Active	User	Status	Difficulty	GetWorks	Accepted	Rejected	Stale	LST	LSD
iols ool Uf	RL		Austre	110000						0	Wed Oct	6553
ool Uf		tturn 12 poal com 3333	true	microbil init	Alive	65536	106	127	0		25 18:16:49 2017	6003
ool Uf	atum+tcp://stra	ıtum İZpoal cam 3333 ıtum bixin cam 3333		microbt init	Alive Alive	65536 0	108	127	0	0	18.16.49	0

This section contains no values yet

Note: (1) if the connection of the miner is correct and the network is normal, the frequency search test will begin automatically after the miner is powered on. The frequency search test phase will take about 15 minutes. After the frequency search is over, it will only enter the formal mining stage. What is shown here is the calculation force of normal operation. If the search frequency is not over, see the calculation force will be lower than the normal operation of the calculation force.

(2) if the temperature of the outlet is above 85 degrees and the speed of the fan is more than 6100 revolutions, the miner will run at a lower frequency and the calculating force will be lower than the normal one. Ventilation and cooling measures should be done to ensure the mine operation environment. The ambient temperature of the miner is below 40.

(3) if the fan line is not reliably connected to the control board, the corresponding fan rotation speed in the miner interface is 0, which leads to the excessive temperature of the miner, the reduction of the frequency of the force plate and the decrease of the calculating



force.

(4) If the temperature is not detected in the state interface and the temperature is not detected, it is necessary to lower the electric power line of the miner and reinsert the power line of the corresponding force plate, and the two ends of the data wire arrangement (one end of the control board and one end of the force board) to ensure the reliability of the connection.

7.Batch data configuration, status check, firmware

upgrade

WhatsMinerTool software can be used for batch data configuration, status check, firmware upgrade, detailed operation see "Shenma miner WhatsMinerTool operation guide".

8. Disassembly and installation of

integrated miner

8.1. Disassembly and installation of Power supply

8.1.1.Power disassembly miner

1) .Unplug three load board connections (see figure 1 / 2 / 3), two fan lines (see figure 4 / 5) and one power line (see figure 6) before removing the power supply



After drawing, as shown in the figure:



2) Separate load plate connection columns are removed (at the outlet side) in turn, as shown in the figure:



After disassembly, as shown in the figure:



2) The third step is to remove the eight screws on both sides of the fixed power supply, as shown inthefigure:



 $2\,)\,$. Pull out the power supply from left to right (note that the power cord is not broken), as shown in the

figure:



After the power supply is removed, the figure is as follows:



8.1.2.Installation of power supply

1) .1) when installing the power supply, fix the 4 screws of the control panel cover bracket first, then adjust the position of the armrest support and then tighten the screw, as shown in figure:



2) make sure to tighten the screws when connecting the bar with the terminal, otherwise it will affect the calculation force, as shown in figure:



3) .The control board of the line corresponding to plug-in, the power installation is complete.

8.2. Disassembly and installation of Control Panel

8.2.1.Disassembly of control panel

1) .1) remove the 2 screws of the fixed control and the 4 screws of the support of the fixed control plate respectively, as shown in the figure:



2) Remove the four baffle screws from the outlet of the fixed power supply, as shown in the figure:



2) Then move the control panel support from left to right, and the control panel is removed from right to left, as shown below:



8.2.2.Installation of control panel

The mounting direction of the control panel is arranged in reverse order according to the control board removal, and the screws are tightened accordingly to prevent the control board from loosening.

8.3.Disassembly and installation of Force Plate

8.3.1.Disassembly of force plate

1) .There are three force plates on each miner, and the corresponding relationship between the control board and the control board is shown in the figure.:



2) .To remove the problematic force plate, the four baffle screws and the corresponding connecting posts for the fixed outlet fan need to be removed, as shown in the figure:

<image>

3) . After the connection column corresponding to the fan and the force plate is removed, the faulty force plate is extracted, as shown in the



figure:

4) .After taking out the force plate, use WeChat to scan the serial number of the force plate and provide it to the relevant after-sales technicians, as shown in the figure:







8.3.2.Installation of force plate

1) .1) when the force plate is loaded into the chassis, one hand holds the force board into the force board slot, a portable starting force board connecting column and the force board connection line, and the sequence enters the chassis, as shown in figure:





2) .2) after the installation of the force plate, install the fan. When installing the fan, pay attention to the fan connection line on the right, be careful of the wrong direction, or you will need to reinstall, as shown in the figure:

