FMS 1.3 User Guide

• Installation

1. Double click fms.exe icon to start the installer.



2. Specify the installation directory in the following installer window:

🖶 Setup - fms version 1.0 –	-		×
Select Destination Location Where should fms be installed?			
Setup will install fms into the following folder.			
To continue, click Next. If you would like to select a different folder,	click I	Browse.	
C:\Program Files\fms	E	B <u>r</u> owse	
At least 125.1 MB of free disk space is required.			
Next	>	Ca	ancel

3. Click Next:

🛃 Setup - fms version 1.0		_		×
Select Additional Tasks Which additional tasks should be performed?				
Select the additional tasks you would like Setup to perfo	orm while	installing	fms, th	en
Additional shortcuts:				
Create a desktop shortcut				
< <u>B</u> ack	<u>N</u> e	xt >	C	ancel

4. Click Next:

🖟 Setup - fms version 1.0	—		×
Ready to Install Setup is now ready to begin installing fms on your computer.			
Click Install to continue with the installation, or click Back if you change any settings.	want to r	eview or	
Destination location: C:\Program Files\fms		1	^
Additional tasks: Additional shortcuts: Create a desktop shortcut			~
<		>	
< <u>B</u> ack	Install	Ca	incel

5. Click Install to start installation:

🛃 Setup - fms version 1.0	_		×
Installing Please wait while Setup installs fms on your computer.			
Extracting files C:\Program Files\fms\Qt5Widgets.dll			
		Ca	ancel

Once the progress is completed:

🛃 Setup - fms version 1.0	- 🗆 ×
	Completing the fms Setup Wizard
	Setup has finished installing fms on your computer. The application may be launched by selecting the installed shortcuts.
	Click Finish to exit Setup.
	Launch fms
	Einish

Click finish to finish the installation.

• User interface Introduction



1. Double click the desktop icon

fms to enter FMS:

FMS FMS					-		\times
Scan Upgrade Setting							
Overview							
Temperature Summary	Miner Summary		Hashrate Summary				
Max : 0°C (32°F) Min : 0°C (32°F)	Total Count: 0 Poo	ol 1: 0 Total	: 0(T) Average	: 0(T)			
Average : 0°C (32°F)	Pool 2: 0 Poo	013:0					
State \bigtriangledown Pool & Worker Number of M	iners in Pool IP (0)	AUC Count	Miner Count	Elapsed Time	Real-T	Time Ha	shrat
							Þ

Scan	manual scanning
LED ON	Batch turn on LED
LED OFF	Batch turn off LED
Upgrade	firmware upgrade
Restart	Batch restart miners
Change Pool	Batch change pool setting
Setting	change settings
Temperature Summary	temperature monitoring
$Max: \ 0^{\circ}C(32^{\circ}F) \qquad \qquad Min: \ 0^{\circ}C(32^{\circ}F)$	
Average : 0°C (32°F)	



	Miner Sur	nmary		
Total Count:		Pool 1:		
Pool 2:		Pool 3:		miner monitoring
	Hashrate Su	mmary		
Total :	0(T)	Average :	0(T)	
				hash rate monitoring

The State column provides checkboxes to select or unselect each miner for other operations (like firmware Upgrade). The Pool & Worker column shows the mining pool and miner ID.

• Usage

1. Miner Discovery

If the miners and the management PC are in the same network, use the following procedure to discover the miners. Click Settings to bring up the Base Config window:

FMS Setting		?	\times
Base Config			
Monitor time interval :	5	minute	
High temperature alarm threshold of ambient temperature :	30		
Low temperature alarm threshold of ambient temperature :	0		
Temperature unit:	O ℃ O ℉		
Save			
IP Config + -			
IP			

Click "+" button and enter the subnet IP range for the miners (e.g. 192.168.193.1-192.168.193.255), and click Confirm to auto-discover the miners.

FMS FMS Setting		? ×
Base Config]
Monitor time interval :	5	minute
High temperature alarm threshold of ambient temperature :	30	
Low temperature alarm threshold of ambient temperature :	0	
Temperature unit:	O°C ●°F	
Save FMS IP Config + + - IP Rang: 192.168.193.1-192.168.193 (eg:192.168.0.1 - 192.16	? ×	
Confirm Cancel		

Select miners and click Save, the discovered miner IP addresses will be shown in the main window:

FMS FMS				-	- 🗆	×
Scan Upgrade Setting						
Overview						
Temperature Summary	Miner Summary	Hashra	ate Summary			
Max : 32°C (89°F) Min : 32°C (89°F)	Total Count: 1 Pool 1: 1	Total : 0(T) Average : 0((T)		
Average : 32°C (89°F)	Pool 2: 0 Pool 3: 0					
State 🗸 Pool & Worker	Number of Miners in Pool	IP (1)	AUC Count	Miner Count	Elapsed 1	Гim
stratum+tcp://btc.ss.poolin.com:443 : cctrix.001	1	192.168.189.135	1	1	9m 1s	

2. Firmware Upgrade

Select the miner to be upgraded in the main window, and click Upgrade

FMS FMS					-	- 🗆	×
Scan Upg	rade Setting						
Overview							
	Temperature Summary	Miner Summary	Hashr	ate Summary			
Max	: 32°C (89°F) Min : 32°C (89°F)	Total Count: 1 Pool 1: 1	Total: 0(1	T) Average : 0((T)		
Average	: 32°C (89°F)	Pool 2: 0 Pool 3: 0					
 	Pool & Worker	Number of Miners in Pool	IP (1)	AUC Count	Miner Count	Elapse	d Tim
	stratum+tcp://btc.ss.poolin.com:443 : cctrix.001	1	192.168.189.135	1	1	24m	n 1s

Select the firmware file in the popup window: QFileDialog.getOpenFileName()

M QFileDialog.getOpenFileName()					
Look in:	📙 C: \Users\AD\Desktop\新建文件夹(2) 💽 💽 🐼	•			
AD	A10MM3APP_19052902.aup				
File <u>n</u> ame:	A10MM3APP_19052902.aup	Or	en		
Files of type:	All Files (*)	Car	icel		

Click Open to begin the upgrade process.



The following dialog will be shown if the upgrade is successful:

FMS FMS	?	\times
All upgrades were successful!		
OK		

3. Batch Turn On/Off LED

First select one or multiple miners from table by clicking the checkbox of state column. Then click LED ON or LED OFF button to switch LED for selected miners. During the process, a progress dialog will popup. When the progress dialog finish, it means LED switching operation finish and a result dialog will popup.

4. Batch Restart

First select one or multiple miners from table by clicking the checkbox of state column. Then click Restart button to restart all selected miners. During the process, a progress dialog will popup. When the progress dialog finish, it means restart operation finish and a result dialog will popup. After restarted, these miners need some time to initialize and probably don't appear in FMS until they begin mining.

5. Batch Change Pool

First select one or multiple miners from table by clicking the checkbox of state column. Then click Change Pool button to change pool setting for all selected miners. A pool setting dialog will popup to allow users choose which pool they want to use. After conform, FMS will start to change pool setting for selected miners and restart them. During the process, a progress dialog will popup. When the progress dialog finish, it means changing operation finish and a result dialog will popup. After restarted, these miners need some time to initialize and probably don't appear in FMS until they begin mining.

6. Batch Change Static IP Settings Step 1: Launch Batch Change IP Dialog



Click check box to select all the miners needed to set new static IP. Then click button to launch Batch Change IP Dialog:

H∭ Batch Change IP				?	×	
Is monitoring LED status, please turn on LED in order						
	order	current IP	LED	target IP		
1	9999999	192.168.193.24	OFF			
2	9999999	192.168.193.159	OFF			
3	9999999	192.168.193.149	OFF			
4	9999999	192.168.193.167	OFF			
5	9999999	192.168.193.160	OFF			
6	9999999	192.168.193.221	OFF			
7	9999999	192.168.193.220	OFF			
IP Sattings (Format: IDs. Mask. Gateway, DNS1, DNS2)						
Please input ip settings here. For example: 192.168.1.2 - 254, 255.255.0, 192.168.1.1, 192.168.1.1, 8.8.8.8						
Start Monitoring LED Stop Monitoring LED Preview						
				Canc	el Apply	

Its topmost line will show operation result or error info or any hint. Below it is a table to show info about all selected miners. The 'order' column means the order number this miner's LED is turned on manually. The default 999999 indicates it has not been turned on yet. The 'current IP' column means current miner IP address. The 'LED' column means LED status of miner. Please note that 'turn off LED' only means LED is not white color. In fact LED will always be on in some other color. The 'target IP' column means which IP address will be set into this miner.

Step 2: Turn On LED in Order

When LED status are all OFF in the table, topmost line usually will show:

Is monitoring LED status, please turn on LED in order

Then it's time to turn on LED of selected miners one by one in the order you want. To turn on LED, please short press FUNC button of miner. Please note that there is another RESET button, DO NOT press it by mistake. And please DO NOT long press FUNC button, or the miner will be rebooted. When the LED turns to white color, then automatically turns to original color by AMF, it means AMS has known this miner's order and next one can be turned on. If white LED is still there, please wait for several seconds, it's possible AMS has some delay. But if white LED don't be turned off in 10 seconds, it probably indicate this miner lost connection or some other issue. If so, please try to reboot this miner and wait, or find some other help.

In AMS side, when any LED has been turned on, AMS will update the miner's LED column and then turn off it. Message like below will show in topmost line:

192.168.193.167 has been turned on in order 1

When all selected miners have been turned on at least one time, a dialog will be popped out:



If select 'No', LED status monitor will be stopped to avoid affections of later LED on operation. If monitor has been stopped and you want to change order again, please press

Stop Monitoring LED

Start Monitoring LED button to stop monitor.

If any order is wrong, please turn on the first wrong miner again to clear all order numbers after it.

button. Anytime you can press

Step 3: Edit IP Settings

After all miners have their order number, it's time to edit IP settings.

Just below the table is IP Settings edit box. Every line in it means an static IP range/group. Every line should includes 5 parts: IP range/group, subnet mask, gateway IP address, primary DNS address, second DNS address. They should be separated by a comma like:

192.168.193.2-5,255.255.255.0,192.168.193.1,8.8.8.8,202.106.0.20

This example means IP range is from 192.168.193.2 to 192.168.193.5, which contains 4 IP addresses. Subnet mask is 255.255.255.0 gateway is 192.168.193.1, primary DNS is 8.8.8.8 and second DNS is 202.106.0.20.

IP range/group part supports several format:

Contiguous range: a hyphen between two number indicate a contiguous range.
 For example:

192.168.1-3.5 Means 4 IP addresses: 192.168.1.5, 192.168.2.5, 192.168.3.5, 192.168.4.5. Range can be used in multiple parts of IP address. For example: 192.168.1-2.5-6 Means 4 IP addresses: 192.168.1.5, 192.168.1.6, 192.168.2.5, 192.168.2.6

Means 4 IP addresses: 192.168.1.5, 192.168.1.6, 192.168.2.5, 192.168.2.6.

- Multiple group: in any part of IP address, slash can be used to union multiple range or individual number. For example:
 192.168.1.3/6/7
 Means 3 IP addresses: 192.168.1.3, 192.168.1.6, 192.168.1.7.
 It can be mixed with range. For example:
 192.168.1-2.4-5/8/10/14-15
 Means 12 IP addresses: 192.168.1.4, 192.168.1.5, 192.168.1.8, 192.168.1.10, 192.168.1.14, 192.168.1.15, 192.168.2.4, 192.168.2.5, 192.168.2.8, 192.168.2.10, 192.168.2.14, 192.168.2.15.
- 3) Default prefix: if IP address doesn't contains 4 parts, the omitted parts will be filled with current IP address same position parts. For example, if all current IP addresses belong to 192.168.3.0, then 5.7-10 means 192.168.5.7-10.

Please edit IP settings according to above format. After that, you can go to next step.

Step 4: Preview

Press button will let AMS show setting results about which miner will have which new IP address. AMS fill target IP column in order with IP address series extracted from your IP settings.

It any settings error, an error message will be displayed in topmost line. Please correct IP settings and press Preview button again.

Step 5: Apply Changes



After all miners have their target IP, please press button to apply these changes tominers. If you hope AMS to automatically reboot miners after changing static IP address, please

check . If Auto Restart is not checked, AMS will only change IP settings and these miners will still work with current IP address until next reboot.

7. Version of FMS

Two ways to find out version of FMS:

1) top left corner of the main page

/// FMS 1.0 − □ ×							
Scan Upgrade Setting							
Overview	Town on the Original States) <i>Communication</i>	TT1-				
	Temperature Summary	Miner Summary	Hasn	rate Summary			
Max : 37°C (98°F) Min : 31°C (87°F)		Total Count: 6 Pool 1: 5	Total : 183	(T) Average :	30(T)		
Average	: 34°C (93°F)	Pool 2: 1 Pool 3: 0					
State 7	Pool & Worker	Number of Miners in Pool	IP (6)	AUC Count	Miner Count	Elapsed Tin	
	stratum+tcp://btc.ss.poolin.com:443 : cctrix.001	1	192.168.193.24	1	1	1d 19h 50m 2	
	stratum+tcp://btc.ss.poolin.com:443 : cctrix.001	1	192.168.193.16	1	1	5m 10s	
	stratum+tcp://btc.ss.poolin.com:443 : cctrix.001	1	192.168.193.20	1	1	2m 59s	
	stratum+tcp://btc.ss.poolin.com:443 : cctrix.001	1	192.168.193.221	1	1	2d 21h 13m 4	
	stratum+tcp://btc.ss.poolin.com:443 : cctrix.001	1	192.168.193.220	1	1	22h 1m 41s	
	stratum+tcp://stratum.bixin.com:3333 : bixin.001	1	192.168.193.27	1	1	15h 38m 31s	
						Þ	

2) details in the installation package properties

🧬 fms.exe 雇性 🛛 🕹 🗙					
常规 兼容性 安全 详细信息 以前的版本					
雇性 值 说明 文件说明 fms Setup 类型 应用程序 文件版本 1.0.0 产品名称 fms 产品版本 产品版本 1.0 版权 大小 83.4 MB 修改日期 2019/7/11 11:02 语言 语言中性					
确定取消	应用(<u>A</u>)				