

INNOSILICON

A5+ DashMaster USER MANUAL



INNOSILICON A5+ DashMaster

High Efficient DashMaster

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1. OVERVIEW

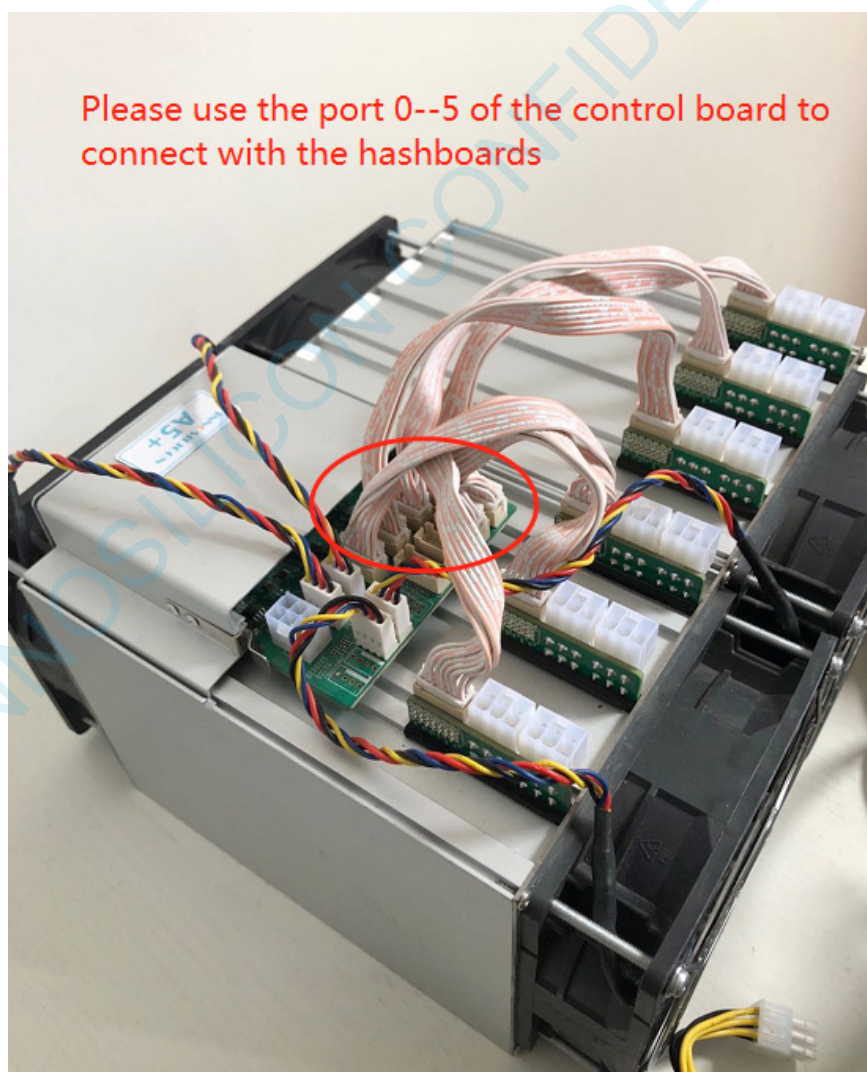


Part Number	A5+ DashMaster ASIC
Hash Rate	65Gh/s (+-8%)
Power	1500 +/-8%
Size (L×W×H)	265mm(L) x 250mm(W) x 155mm(H)
Net Weight	6.02KG (without PSU)
Operating Temperature	0-40 °C
Network Connection	Ethernet

2. CABLE CONNECTION

2.1 CHECK THE MINER BEFORE POWER ON

- Check the warranty sticker is well or not, especially the hashboards PSU port side. If the warranty sticker is damaged when you received the miner, please contact our After-sales.
- Before you power on the miner, shake the miner softly, if you can hear the sound of metal banging on metal, please contact our After-sales.
- Check if the fan work well, if you find the fans broken please contact our After-sales.
- Check the cable connection, if it is different from below picture, please connect the cables as below.



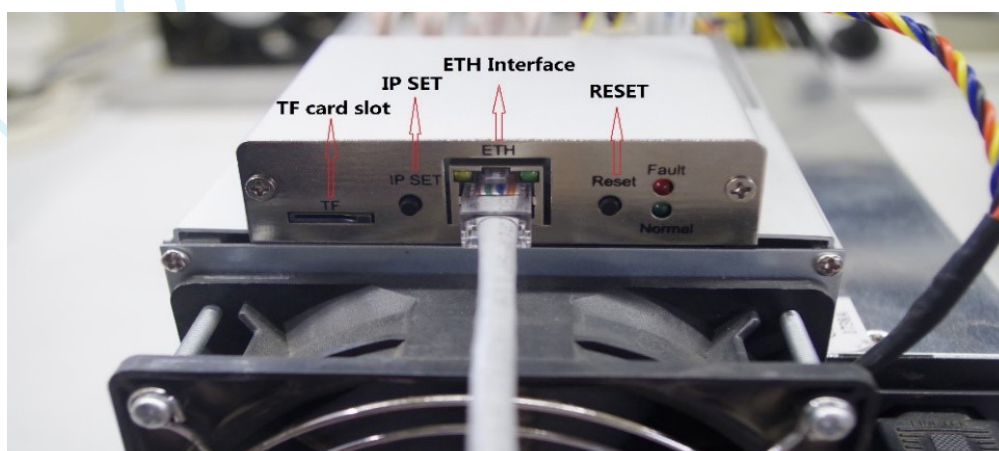
2.2 CONNECT THE PSU

Every hashboard needs to be inserted with 2 PSU cables according to the following image, Controller only needs 1 PSU cable.



2.3 CONNECT THE ETHERNET CABLE

Insert one end of the Ethernet cable into the router and the other end into the slot shown in the following image, you should plug in the miner one by one, only when you have accomplished IP Setting of the previous one you can plug in another miner .



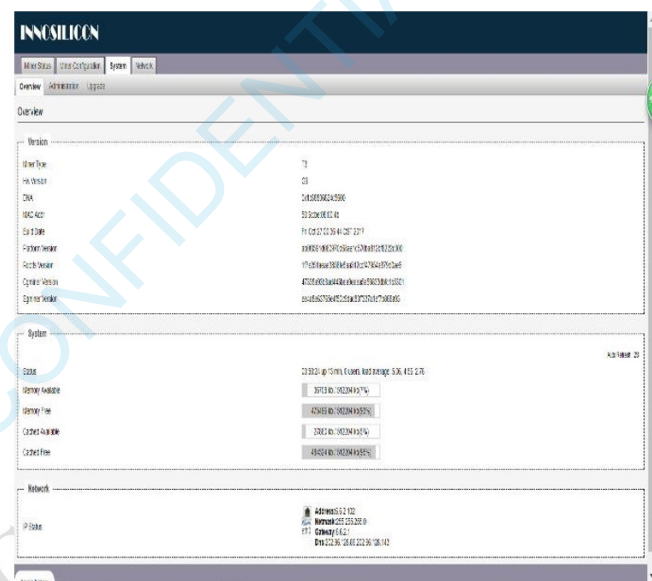
IP SET button: Press it more than 5 seconds to recover the IP to 192.168.1.254.

RESET button: Your miner will restart if you press it. It wont recover your settings to the default.

3. ENTER THE MINER CONSOLE

By default, the miner uses Static IP to access the control webpage of the miner.

Input 192.168.1.254 into the browser, then click 'Enter' to enter the miner's control webpage (Chrome is the suggested browser).

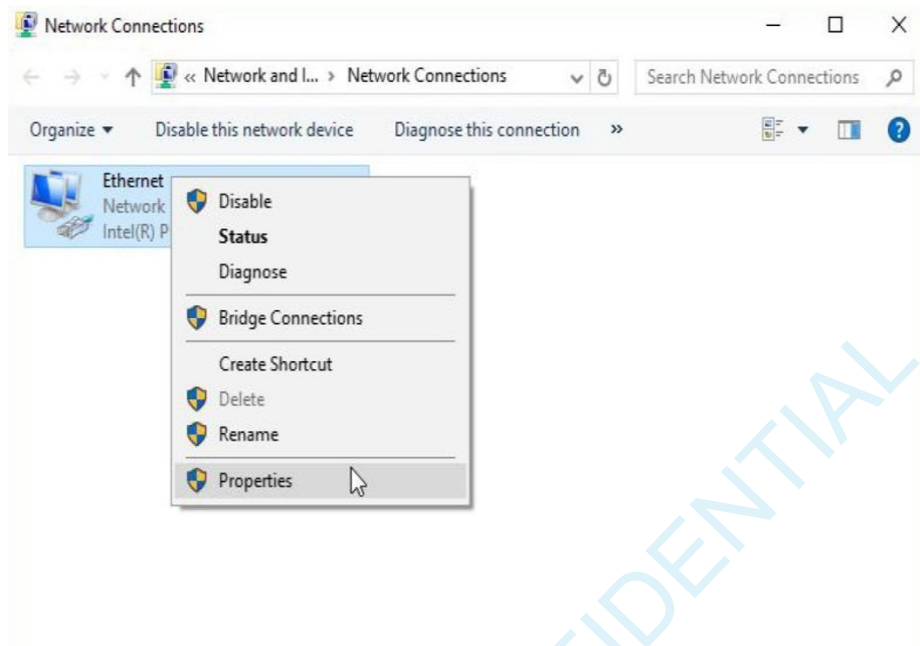


Cant access the miner console?

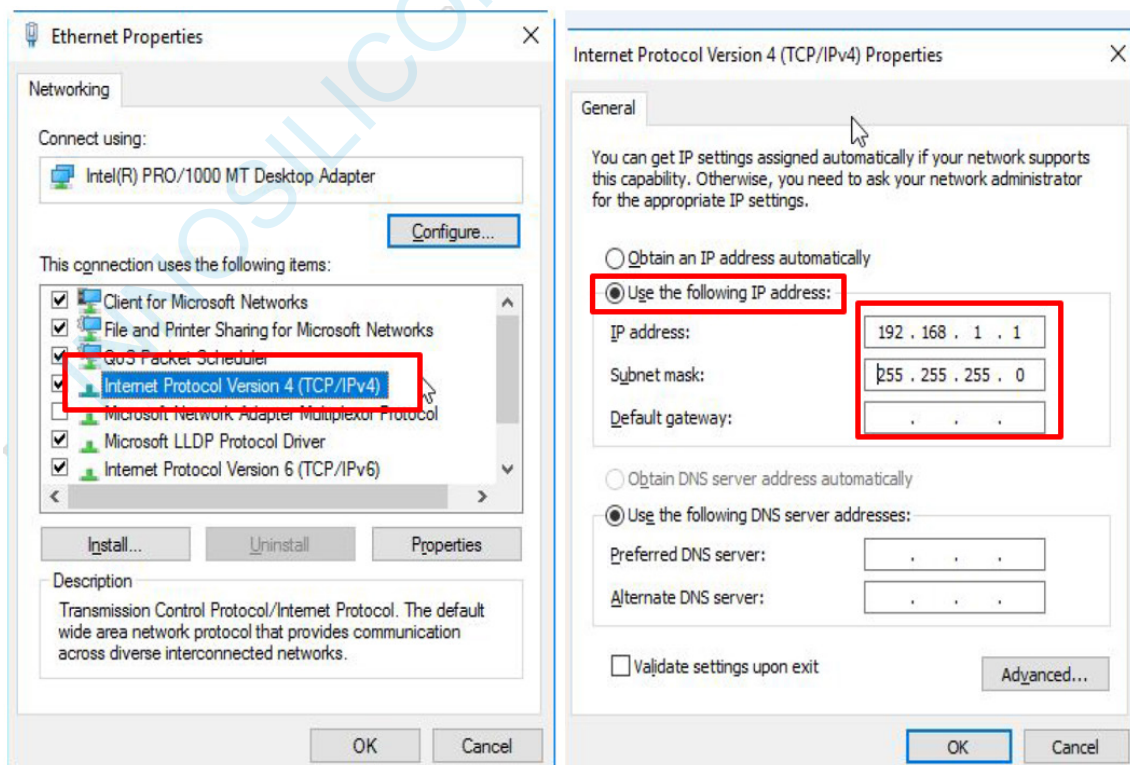
Maybe it is because miner IP and the router IP have a different network segment, two ways to solve it:

- Modify the router IP to 192.168.1.1, then try again.
- Don't want to change the network segment of the router? Do it as below:

Connect the miner and computer with a network cable. Open the windows system control panel, go to Network and Internet — Network and share center — change the adapter settings, the mouse cursor to the “Local Area Connection” click the right mouse button to view properties.



- In the properties panel, double click the “Internet protocol version 4(TCP/IP)” . Then select the “Use the following IP address”, fill in the IP address and Subnet mask as the right image.



- Press the OK button twice to confirm the changes. Then modify the IP address of the miner (Do it as the follow 4.4) to guarantee the miner and the router have the same network segment. Then connect the miner with the router, connect the PC with the router and select the “Obtain the IP address automatically”. Now you can enter the IP through the browser into the control interface

4. CONFIG THE MINER

4.1 Enter ‘Miner Configuration’ page, select ‘General Settings’. Click the lower right corner enter log in page.

Config

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Miner Status **Miner Configuration** System Network

General Settings

Miner General Configuration

Pool1

URL: stratum+tcp://dash.s.innomining.com:2000

Worker: imno.102

Password: x

Pool2

URL:

Worker:

Password:

Pool3

URL:

Worker:

Password:

Pool4

URL:

Worker:

Password:

Frequency

Miner Running Frequency(Mhz): 1100

(Note: 1100MHz is our default frequency with voltage VID range of 20 to 16. The lower VID value means the higher voltage or higher power consumption. If you want to try overclock frequency, you usually need to adjust VID to be lower. Warning: overclock is at your own risk and vary in performance from miner to miner. It may damage miner in overheating condition.)

Voltage

Miner Operational Voltage(Level): 12

(Note: VID 16 is our default voltage setting and the most suitable value of VID may vary from miner to miner. User can slightly adjust VID up or down to get the best performance. 1100MHz is our default frequency with voltage VID range of 20 to 16. The lower VID value lower means the higher voltage. If you want to try higher overclock frequency, you may need to adjust VID to be lower. Warning: overclock is at your own risk and vary in performance. It may damage miner in overheating condition.)

Config

4.2 Enter the default password “12345678”, then click lower right corner configuration page.

✓ Login

to enter

Password is wrong/error?—Please contact our after-sales people.

4.3 Enter the mining pool's URL, Worker, password according to the following image, then click

Submit

.The miner will start mining, and the page will return to the 'Miner Configuration' page. It will show the user's modified setting.

Note: As the factory reset will not reset the password to "12345678", you need to remember what you have modified your password to. Should you forget the password, it can only recovered through our paid support. (Very IMPORTANT!!!)

Note, over clock is at your own risk and vary in performance from miner to miner. It may damage the miner in overclock condition

4.4 To avoid IP conflict when using 2 or more miners at the same time, the IP address needs to be changed. Enter the network interface shown in the following image, and modify the IP address to you need, then click the “Save” to save it.

Note : If you change the miner IP address to another network segment, after you save it there will be 3 circles keep spinning,that is ok.

- > IP address: If the router address is 192.168.0.1 , you can change the miner’s IP address to 192.168.0.# (# can be any number between 10-253 but every miner’s # must be unique) .
- > Subnet mask: Keep it consistent with your computer.
- > Gateway: Same with the router address.
- > DNS: It is recommended to modify the DNS to the local network operator near the location of the miner. For example, the mining machine uses telecommunication broadband in Beijing, China. Search in Baidu or Google search engine "Beijing Telecom DNS" to get the DNS: 219.141.136.10. Then use this DNS for your miner.

When the above information is input, click the lower right corner

✓ Save&Apply

to save.

Current IP setting

IP Status	eth0	IP Address: 6.6.2.102 Netmask: 255.255.255.0 Gateway: 6.6.2.1 Dns: 202.96.128.86, 202.96.128.143
IP Address	<input type="text" value="192.168.1.254"/>	
Netmask	<input type="text" value="255.255.255.0"/>	
Gateway	<input type="text" value="192.168.1.1"/>	
DNS Servers 1	<input type="text" value="114.114.114.114"/>	
DNS Servers 2	<input type="text" value="8.8.8.8"/>	

✓ Save&Apply

4.5 Enter ‘Miner Status’ page to check the status on the mining pool configuration and performance of the miner.

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Miner Status

Miner Configuration

System

Network

Miner Status

Miner Status

Summary

Running Time	Accepted / Rejected	HW	Fan Speed	Total HashRate(MHS)
00d 00h 00m 09s	153 / 0	2	0%	69117.58

MinerInfo

Chain#	Accepted / Rejected	HW	Temp min / Temp max / Temp avg	Status	HashRate(MHS)
ASC0	34 / 0	0	0 / 0 / 0	Alive	11433.09
ASC1	30 / 0	0	0 / 0 / 0	Alive	11633.85
ASC2	22 / 0	0	0 / 0 / 0	Alive	11546.95
ASC3	22 / 0	0	0 / 0 / 0	Alive	11472.41
ASC4	29 / 0	0	0 / 0 / 0	Alive	11525.75
ASC5	16 / 0	2	0 / 0 / 0	Alive	11503.03

Warning: if a chain is down, please check loose cable connection, low temperature or overheating conditions.


Pools

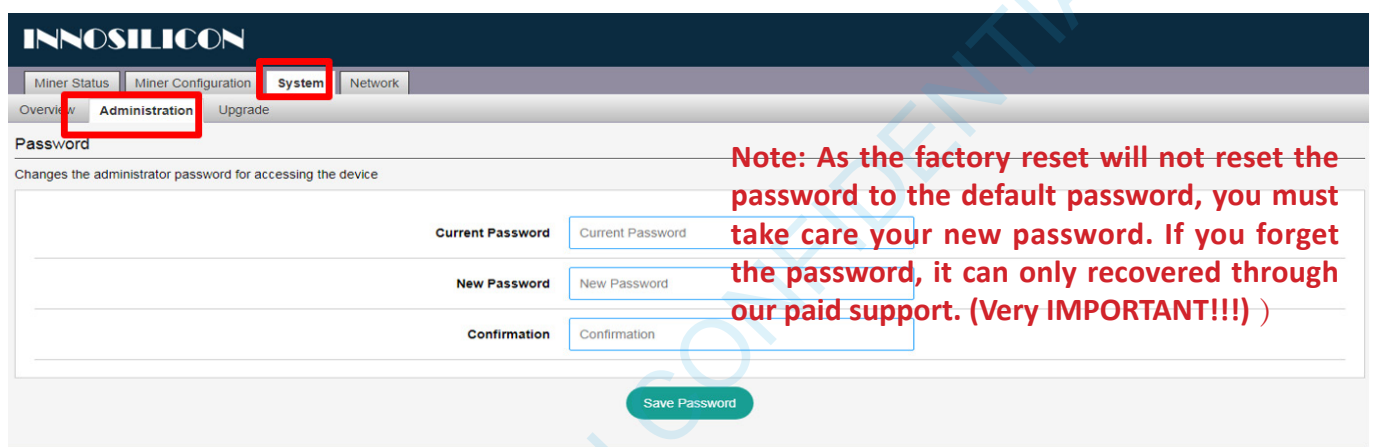
Pool	URL	User	Status	GetWorks	Accepted	Rejected
1	stratum+tcp://dash-s2.1nnomining.com:2000	innosil31	Alive	2	154	0

HW: means error in calculating

5. APPENDIX

5.1 MODIFY THE LOGIN PASSWORD

Select the "Administration" interface at System, then you can modify your password. Then click  to save your new password.




Note: As the factory reset will not reset the password to the default password, you must take care your new password. If you forget the password, it can only recovered through our paid support. (Very IMPORTANT!!!)

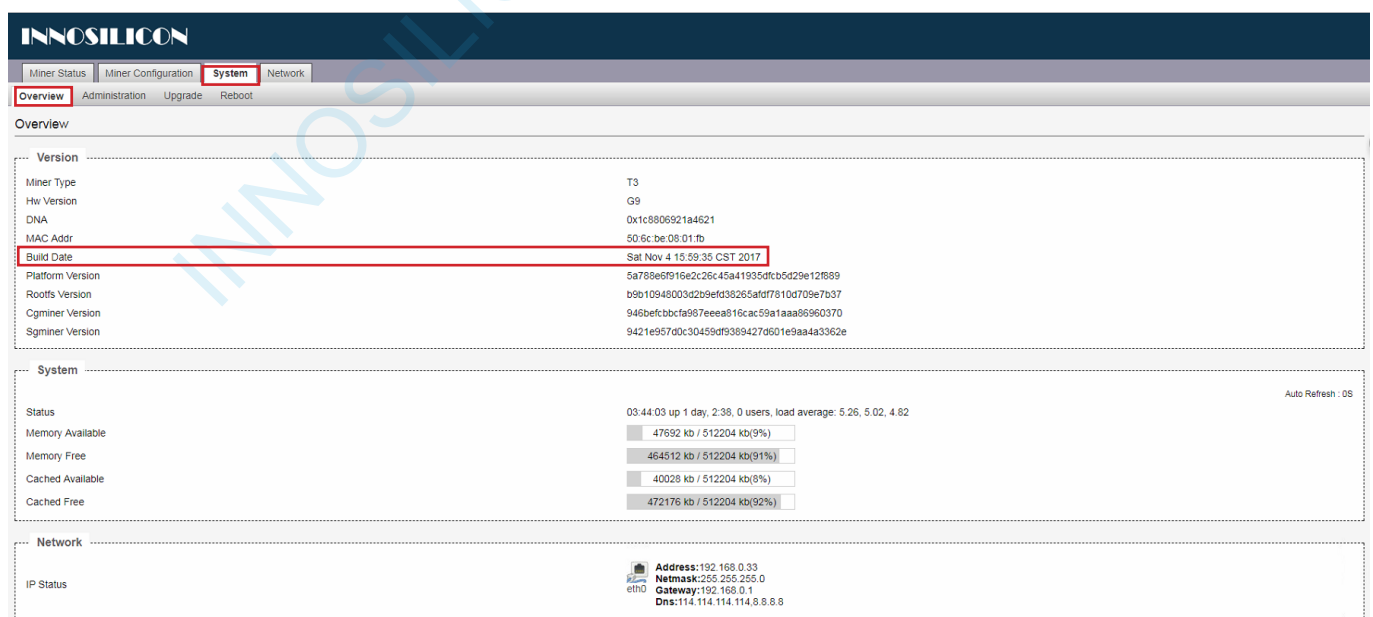
Current Password:

New Password:

Confirmation:



5.2 UPGRADE THE FIRMWARE



Version

Miner Type	T3
Hw Version	G9
DNA	0x1c8806921a4621
MAC Addr	50:6c:be:08:01:fb
Build Date	Sat Nov 4 15:59:35 CST 2017
Platform Version	5a788e6f916e2c26c45a41935dfc:b5d29e12f889
Rootfs Version	b9b10948003d2b9efd38265afdf7810d709e7b37
Cgminer Version	946b6fcbbcfa987eeea816cac59a1aaa96960370
Sgminer Version	9421e957d0c30459df93894279601e9aa4a3362e

System

Status: 03:44:03 up 1 day, 2:38, 0 users, load average: 5.26, 5.02, 4.82


Memory Available: 47692 kb / 512204 kb(9%)

Memory Free: 464512 kb / 512204 kb(91%)

Cached Available: 40028 kb / 512204 kb(8%)

Cached Free: 472176 kb / 512204 kb(92%)

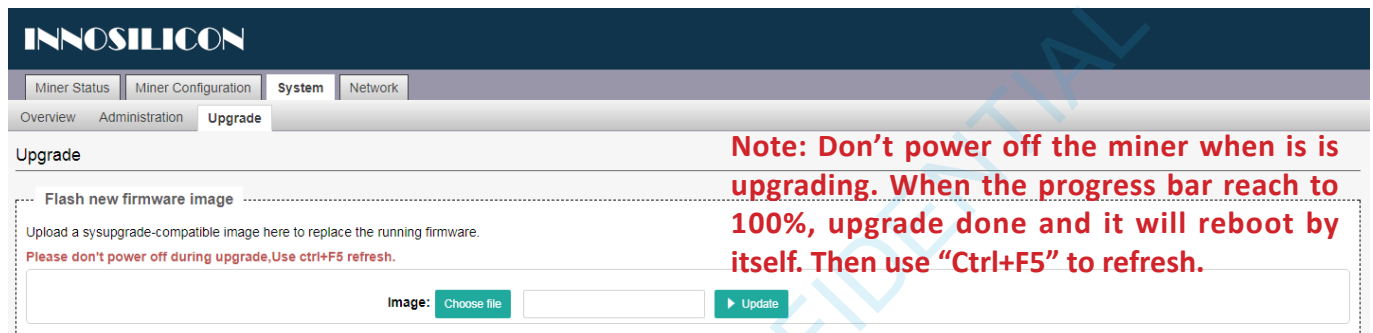
Network

IP Status:  Address: 192.168.0.33
Netmask: 255.255.255.0
Gateway: 192.168.0.1
Dns: 114.114.114.114, 8.8.8.8

Build date is the version of the firmware. If your miner build date is before NOV 24, please upgrade your miner via a TF card. Here is the instruction: <http://www.innosilicon.com.cn/api/download.php?url=TF-card-firmware-update-manual-en.pdf>

If your miner build date is NOV 24 or later, a web upgrade is OK, you can do it as below .

Select the “Upgrade” interface at System option, click to choose the firmware you want to upgrade, click the “update” to start the upgrade. The upgrade is success when you see the progress bar reach to 100%.



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Miner Status Miner Configuration **System** Network

Overview Administration **Upgrade**

Upgrade

Flash new firmware image

Upload a sysupgrade-compatible image here to replace the running firmware.
Please don't power off during upgrade, Use ctrl+F5 refresh.

Image:

Note: Don't power off the miner when is is upgrading. When the progress bar reach to 100%, upgrade done and it will reboot by itself. Then use "Ctrl+F5" to refresh.