Baikal miner

GIANT PlUS

USER'S GUIDE

http://www.baikalminer.com

Start Giant Plus

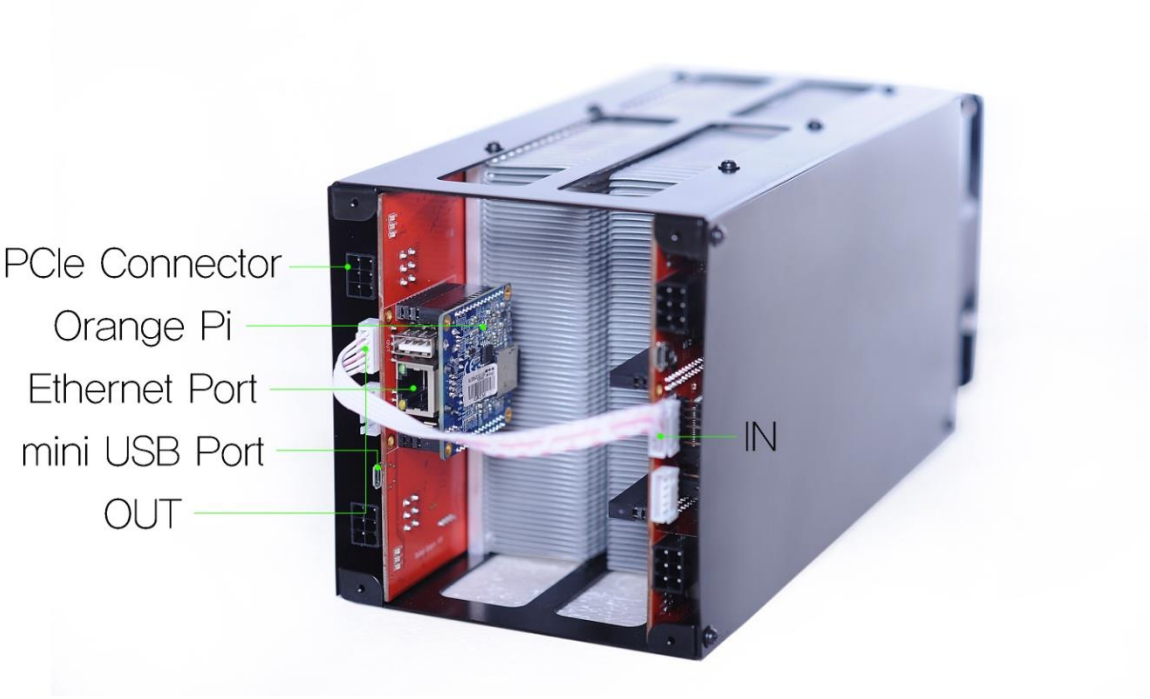
Installation guide

✓ Giant Plus Specifications

Input Power	12V DC ATX Power(600W Recommended)
Interface	Ethernet
Operation Temp	0 ~ 40 ℃
Dimension	300mm(L) x 123mm(W) x 135mm(H)
Weight	3000g

Algorithm	Hash Rate	Power (at the wall, with 25℃ ambient temp)	Power Efficiency
X11	2000MH/s±10%	450W±5%	0.22J/MH
X13	1600MH/s±10%	450W±5%	0.28J/MH
X14	1600MH/s±10%	460W±5%	0.28J/MH
X15	1600MH/s±10%	480W±5%	0.3J/MH
Quark	2000MH/s±10%	260W±5%	0.13J/MH
Qubit	2000MH/s±10%	300W±5%	0.15J/MH

✓ Introduction



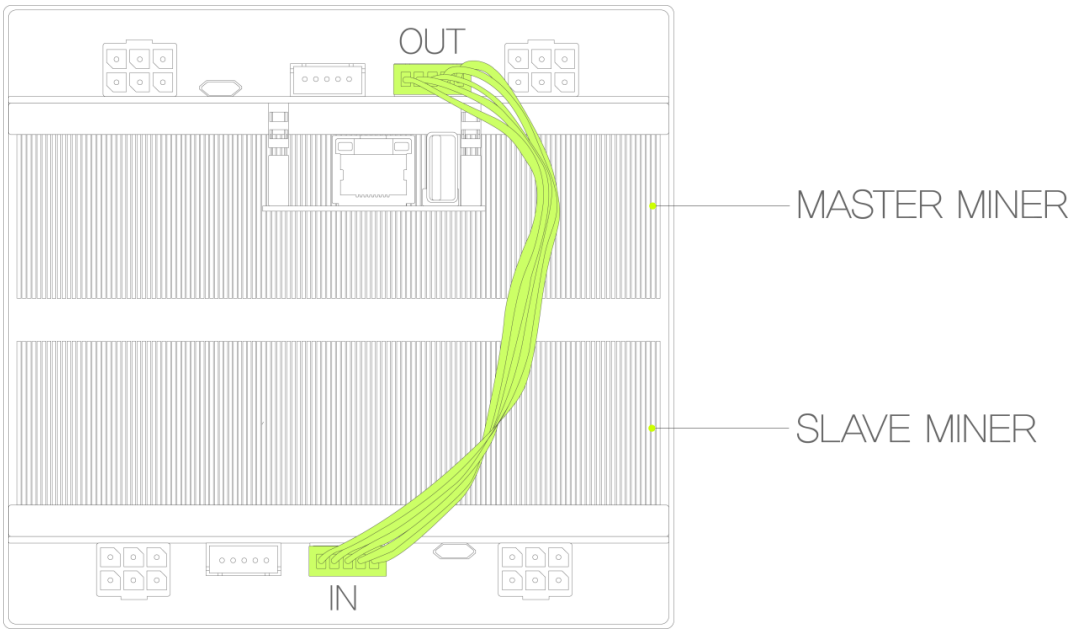
✓ Package Contents

Giant Plus Miner *1ea
5-pin single row cable *1ea

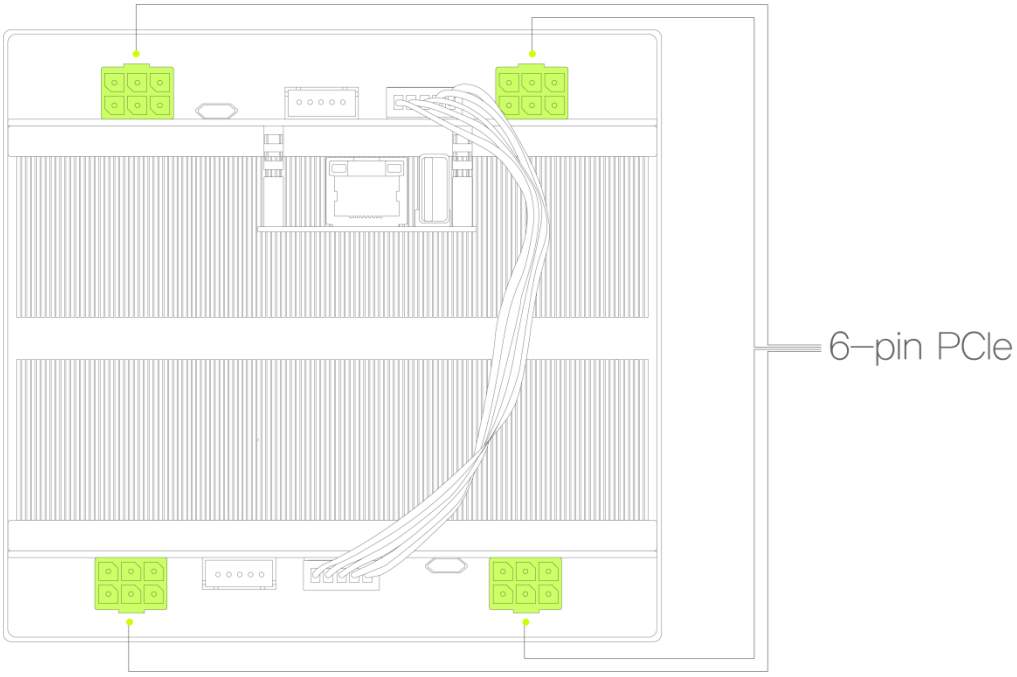
Note 12V DC ATX Power Supply is not package contained but required for the installation.

✓ Connection Guide

1. The board with OrangePi Zero attached is a master miner and the other one becomes a slave miner.
2. Connect two boards with a 5-pin single row cable. OUT port of master miner and IN port of slave miner should be connected.



3. Plug ATX power to 6-pin PCIe Con of both on each board.



<Connection guide for 6-pin power cable>

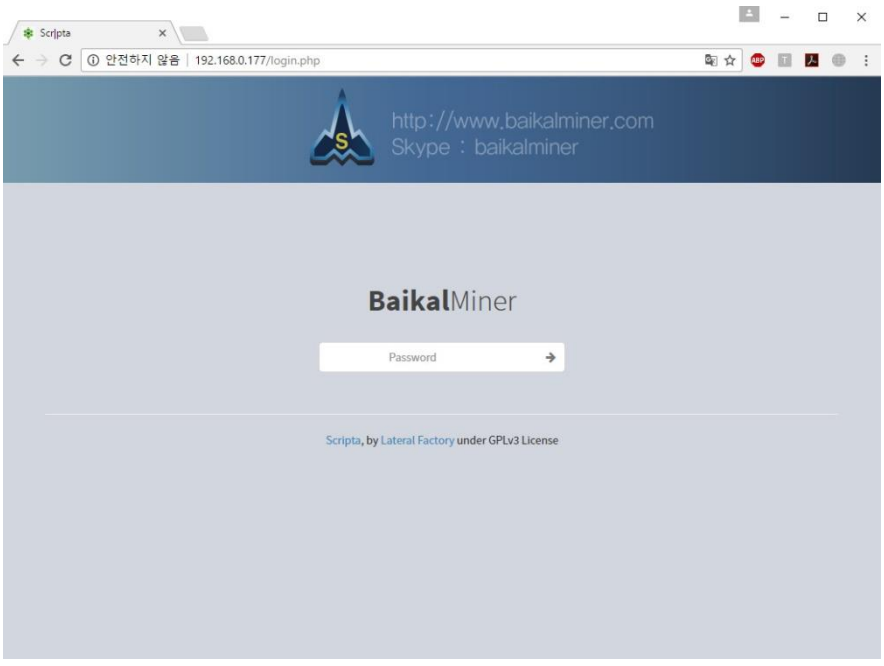
4. Connect Ethernet port on Orange Pi to Ethernet.
5. Power the ATX power supply on

Note Setting Giant plus miners in daisy-chain

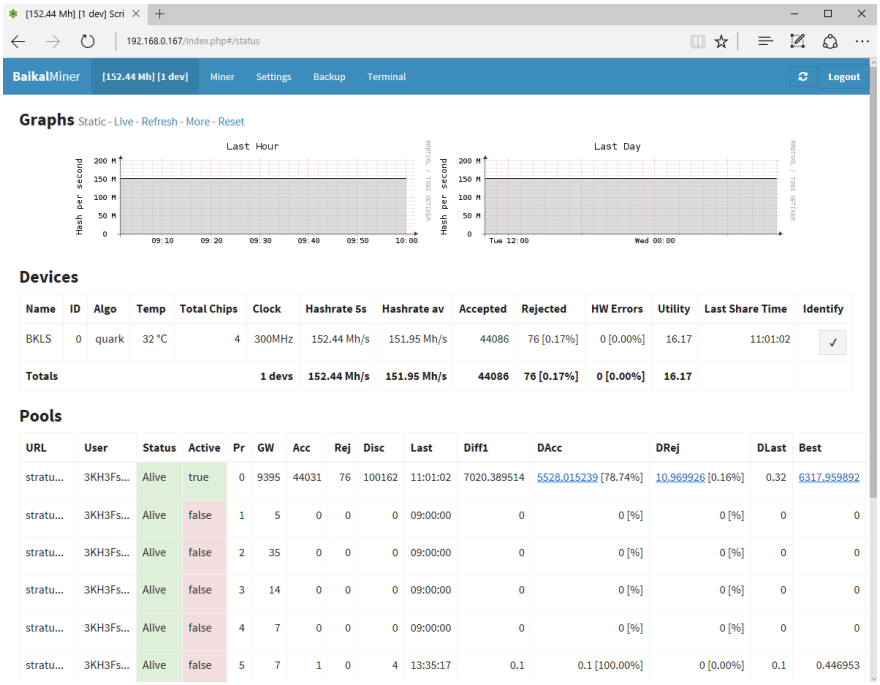
- 4 Giants at maximum
- Only 1 Orange Pi and Ethernet connection are required for the chain
- We recommend using Giants individually.
- Example :

✓ Pool setting

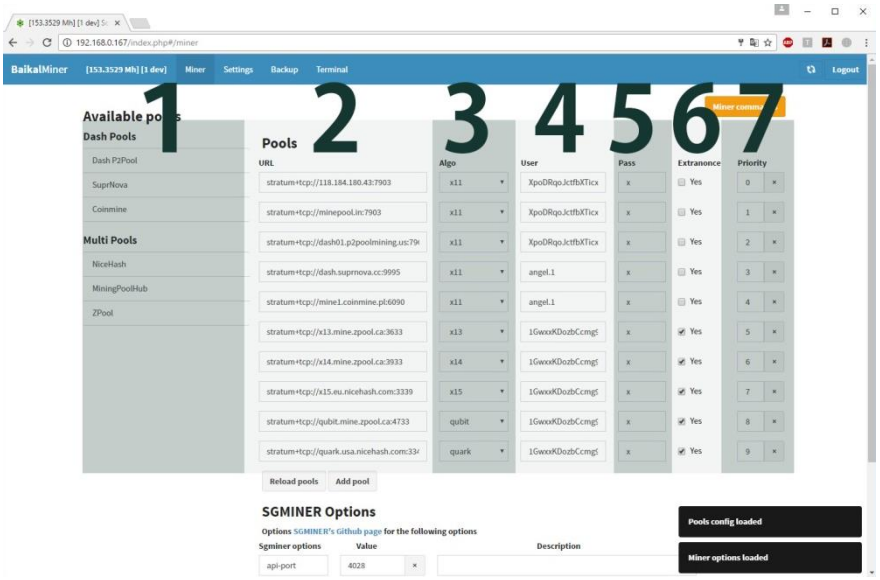
1. Enter Giant IP address on your web browser to access pool setting page and log in with ‘baikal’ as password.
   (IP address can be found either on setting page of your internet router or by using our program *BaikalScanner.exe* from download link)



2. First page you'd see if you log in successfully.



3. Go to Miners tab to set pool lists and give them mining details.



① Pool links for your information
② Server URLs from each pools.
③ Select Algorithm type.
④ Enter your wallet address.
⑤ Pool password (normally set as x)
⑥ Check box for pools supporting Extranonce.

- Check the box if the pool supports Extranonce (such as nicehash or zpool etc.)
- Leave the box unchecked if the pool doesn't support Extranonce.

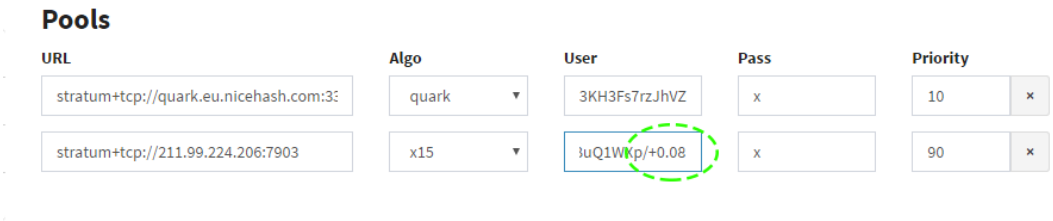
- ◆ Availability of supporting Extranonce should be asked to Pool Operator.

⑦ Give priorities with your own numbers; However, the first number should be 0. The system counts lowest number (which is 0,) as first and the next as second regardless how big are the numbers.

Note

For P2Pool you should add **/+0.08** at the end of your account to manage the hashrate for the best outcome.

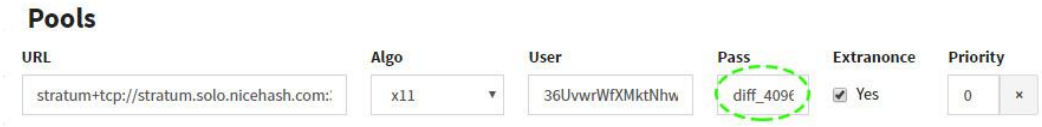
Example)



Note

If you are solo mining at Nicehash, add “diff_4096” as below to the password field.

Example)

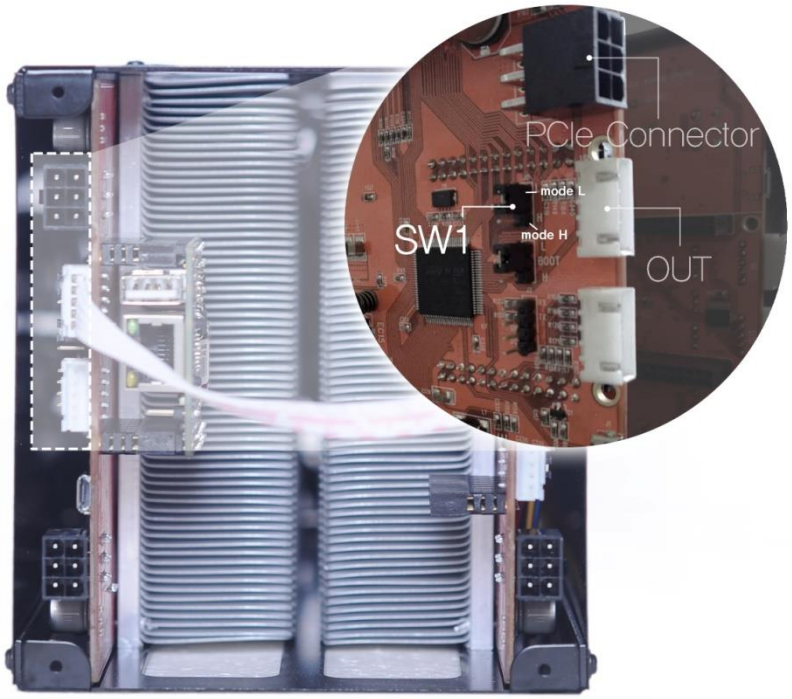


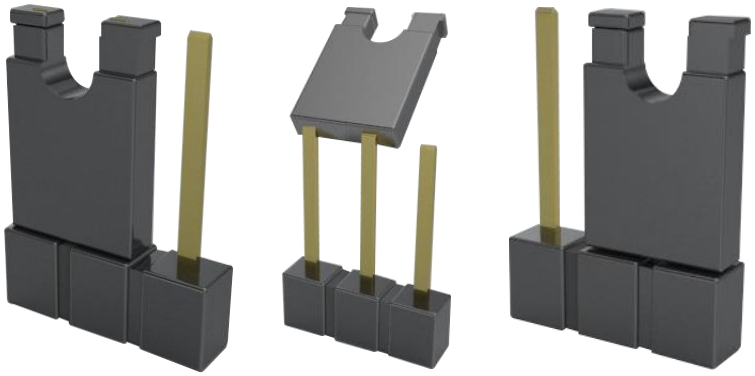
Link for more details : *Can I adjust mining difficulty*

Keep Giant Plus Up-to-date

Upgrade guide

✓ Configuration





Mode H
DFU Boot mode

Mode L
Normal mode

✓ Firmware Update

1. Before the installation :
   ① Power off Giant Plus.
   ② Remove **5 pin single row cable** connecting two miner boards.
   ③ Take covers on both sides off to control SW1.

④ Set SW1 to H on both boards.

⑤ plug micro USB cable to USB Con on any of two boards.
Make sure Giant Plus is off before connecting micro USB cable.

⑥ Power the selected board on by plugging in 2 of power cables on the board and check LEDs have lights flow through.

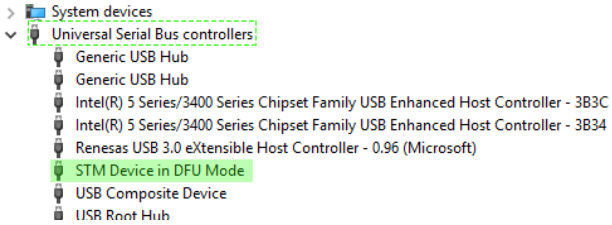
⑦ Download following list of updating tools available from here (file: Baikal_Giant_Plus_V00_DATE.zip) :

Name	Description
dfu-util.exe	USB DFU(Device Firmware Utility) protocol based flash programming console application.
update_firmware_giant plus.bat	Firmware update batch file.
zadig_2.1.2.exe	USB Driver Installer
baikal_Giant Plus.bin	Firmware binary image.

2. Install DFU Utility driver

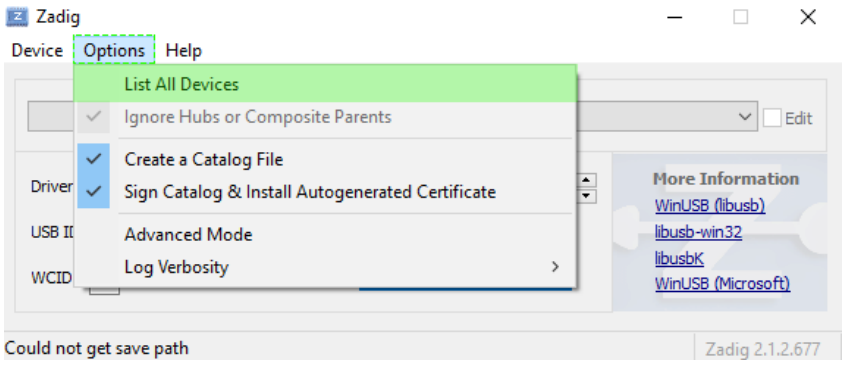
① Connect the other end of micro USB cable to your PC.

② Check if you have STM Device in DFU Mode on device manager.

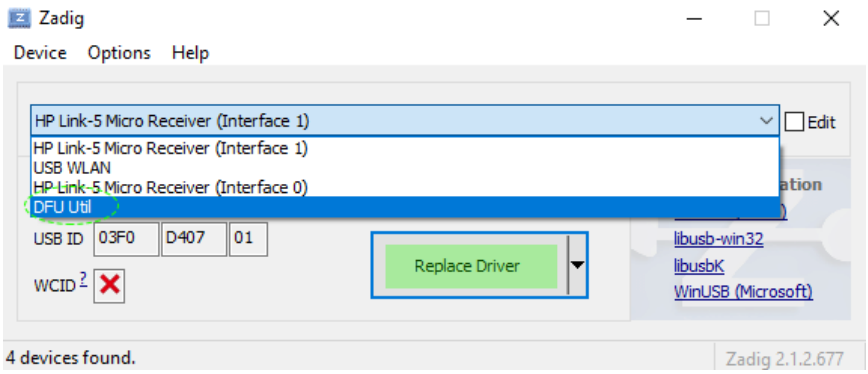


③ Run zadig_2.1.2.exe

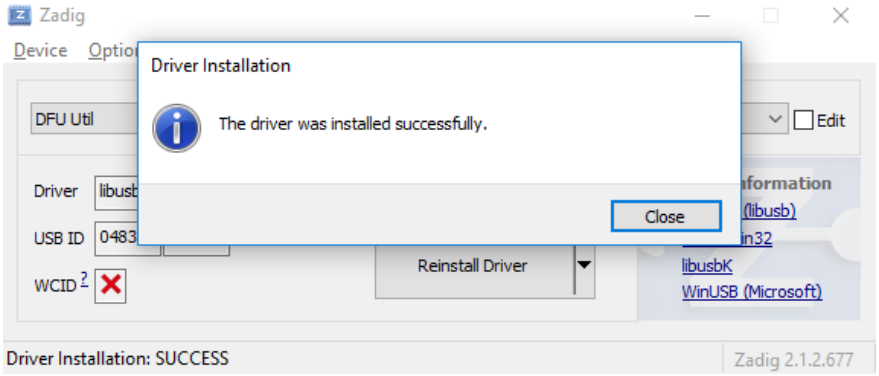
④ Select Options>List all devices.



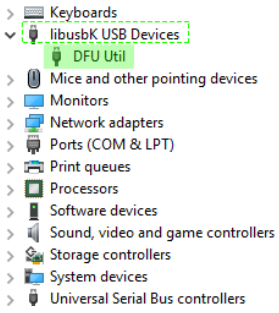
⑤ Select 'DFU Util' on USB device list, then replace driver.



⑥ It should be followed by pop-up message below.

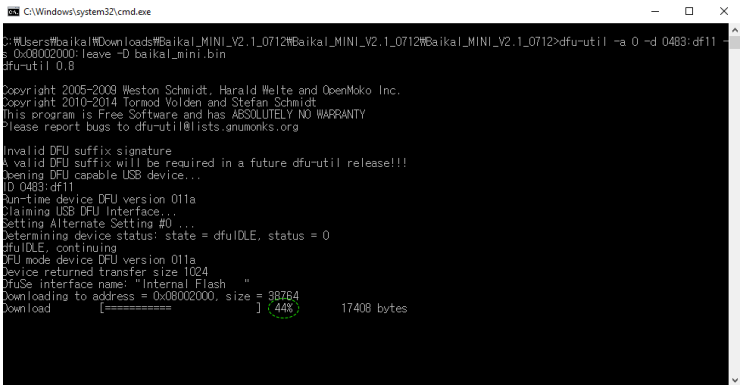


⑦ DFU Util would appear as a replacement of STM Device in DFU Mode on Device Manager if installed successfully.



3. Update firmware

① Run **update_firmware_giant_plus.bat** and console window would pop up.



② When the progress reaches 100% window will close itself.

4. Finish

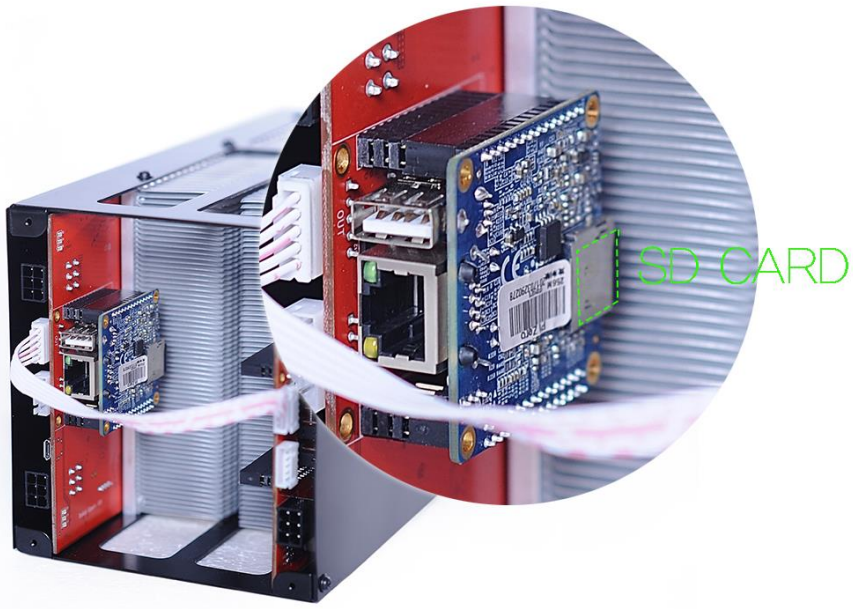
① Power off Giant Plus miner by unplugging power cables.
② Remove micro USB cable from the miner board and insert it into the other one.
③ Repeat step 01-5 to 03-2 for updating the other one as well.
④ Remove micro USB cable from the board.
⑤ Set SW3 to 'L' for mining mode.
⑥ Connect the master miner and the slave miner with 5-pin dual row cable.
⑦ Plug in 4 of power cables to start mining.

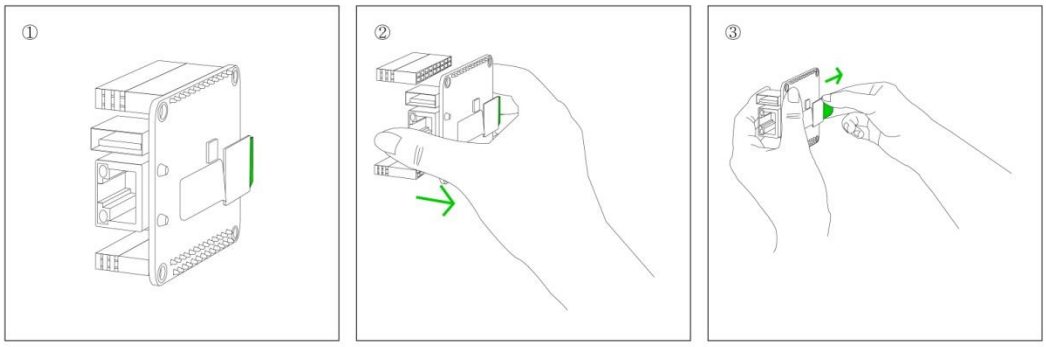
✓ SD Card Update

OrangePI SD Card setup guide

1. Download PiZero image and Win32diskImager Utility from following links :
   Download Link 1 : Google
   Download Link 2 : Baidu

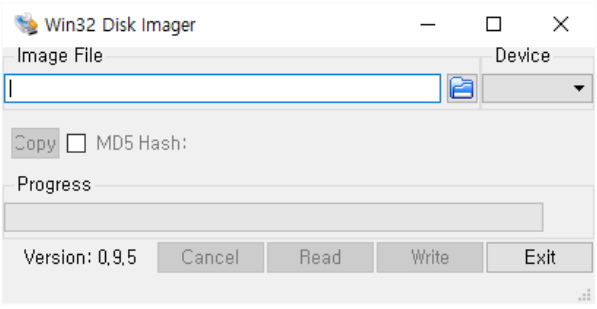
2. Update OrangePI SD Card
   ① Turn Giant Plus off.
   ② Remove the SD Card from the OrangePI Controller.



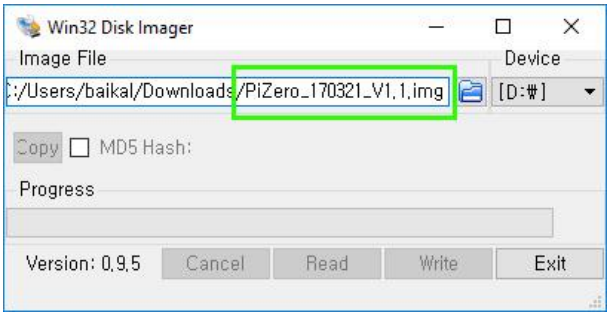


③ Read the SD card on your computer and check which drive letter it assigned.

④ Run the win32diskImager utility.

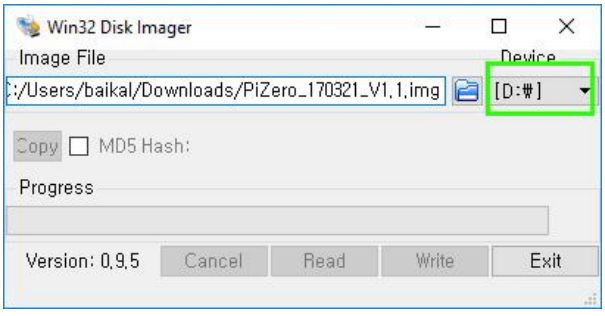


⑤ Select the PiZero_170321_V1.1.img



⑥ Select the driver letter of the SD card in the device box.

⑦ Be careful to select the correct drive; if you get the wrong one you can destroy your data on the computer's hard disk!



⑧ Click Write and wait for the write to complete.

⑨ You are now ready to plug the card into your OrangePI