

Recovering Antminer L3 firmware using SD card

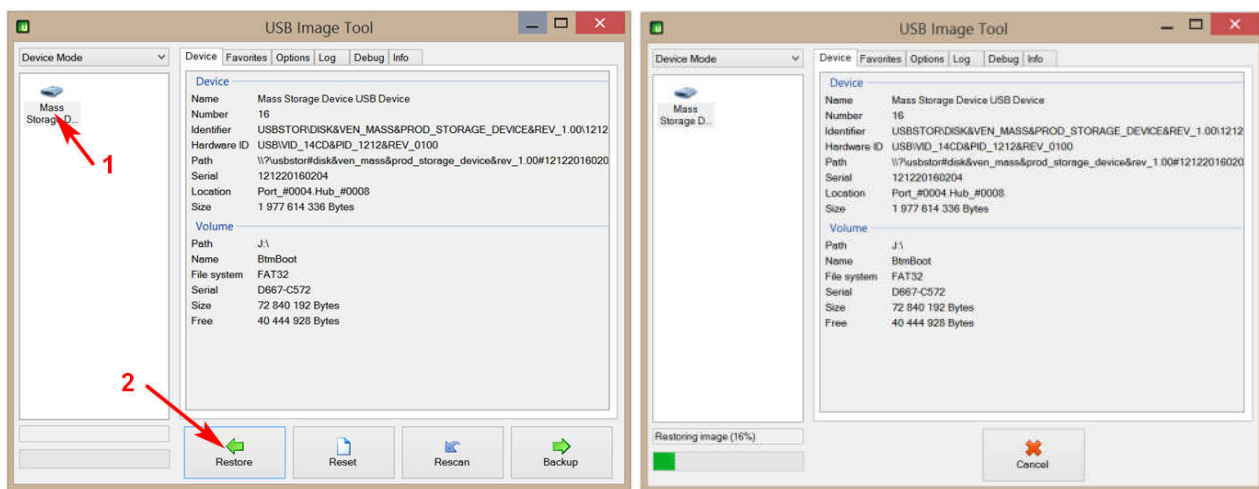
We need:

- microSD-card with a volume of 512MB or more (hereinafter referred to as the card);
- PC with microSD card reader;
- ASIC miner Antminer L3 assembly (hereinafter referred to as the miner) or separately its control board (hereinafter referred to as cnt.).

Note: it is desirable that when flashing from the cnt. everything is turned off except the power supply, incl. LAN cable and hashboard cables. It is also advisable to turn off the power from the hash board.

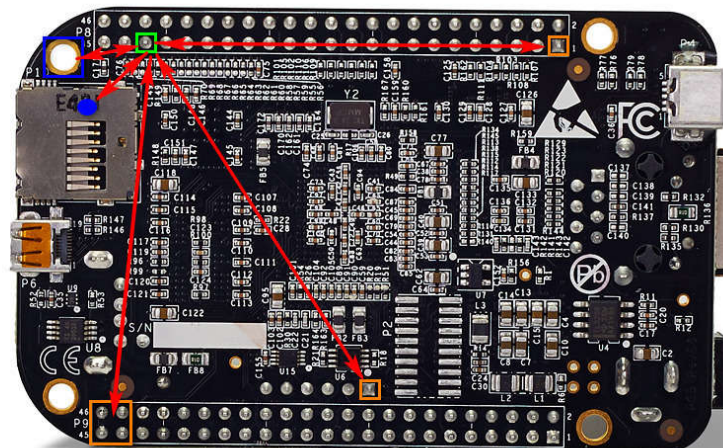
1. Burn SD Card

The file for recovering the cnt. miner L3_XXXXXXX_SD_recovery_by_SpLab_v.Y.Y.img is image file, which must be written to a card with a capacity of at least 512MB. To write a file, use the USB Image Tools program (located in the archive) or download its current version from the website <https://www.alexpage.de/usb-image-tool/download/> Unpack the usbit.zip archive and run USB Image Tool.exe. Insert the card into your computer's card reader. In The USB Image Tool select the SD card that appeared. Click the "Restore" button and select the file. Wait for the recording process to finish.



2. Turn off the power of the miner
3. Install the card in cnt.
4. Turn on the power of the miner
5. Wait until the red and green LEDs on the front panel flash together
6. Turn off the power, remove the card, connect all wires and loops, turn on the power

Note: if the cnt. is not flashed or reboots endlessly when trying to flash, then the cnt. it's necessary forcibly switch to boot mode from the card. To do this, in the off state, you must using tweezers, close the contact circuit as shown in the picture (green pin) output to "-" cnt. (any blue pin, or reach the wire to orange if it does not work out with blue). Turn on the power and after a couple of seconds remove the tweezers from the contacts. Wait for the firmware process to finish.



Indication

External signs of the normal firmware process from the card via two LEDs on the front panel (LAN cable disconnected):

- Cnt. is switched on with LEDs off;
- At the 5th second, both LEDs light up;
- At the 24th second both LEDs are extinguished;
- At the 60th second, both LEDs light up - this is the moment when the sewing in NAND Flash begins;
- At the 75th second, with the successful completion of the firmware process, both LEDs begin to flash synchronously.

The sign that the Cnt. does not see SD or it is incorrectly recorded: the Cnt. turns on with LEDs off and after 5 seconds the LEDs light up and burn indefinitely. And nothing happens.