

AlphaPex DG1/DG1+ Upgrade Solution

Introduction

Release version: V1.0.0

Release Date: 2024-04-10

Security Level: Top-Secret Secret Internal Public

1 Overview

For upgrading the firmware version of DG1/DG1+, here are the 3 methods that you can choose:

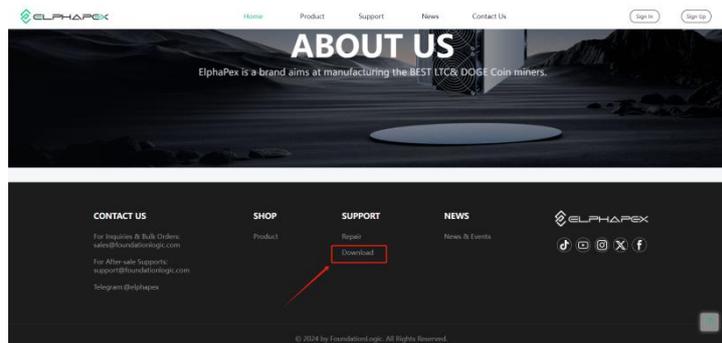
- ① **Upgrading by using AlphaPex Tool (Batch Upgrade)**
- ② **Upgrading by the miner back-end interface (Individual Upgrade)**
- ③ **Flashing SD card upgrade (Individual Upgrade, if the above upgrade methods failed, please try this method)**

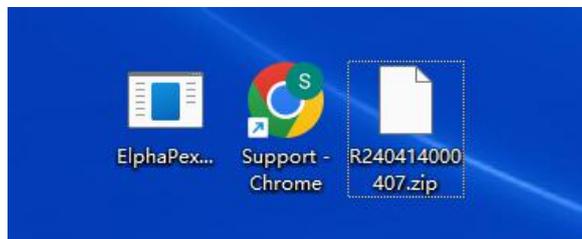
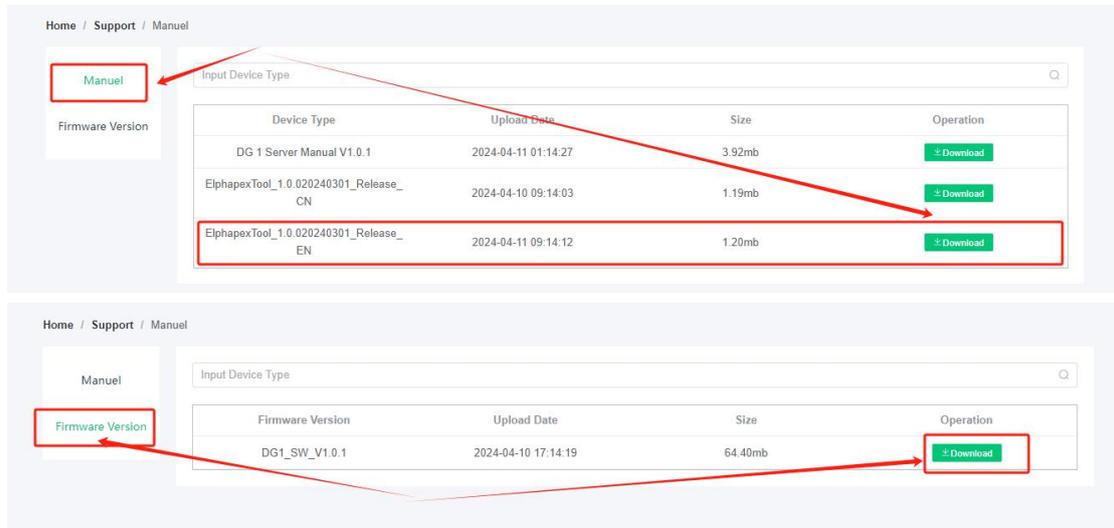
2 Preparing Tools

Hardware: computer (Windows), mining machine , router.

Software: **Latest firmware file** on official website, **AlphaPexTool**, **AlphaPex_SDDiskTool**, **Google Chrome** (or Firefox).

Open Chrome and go to the official website of [AlphaPex](#) to download the latest **AlphaPexTool**, **AlphaPex_SDDiskTool** and **DG1 firmware version**. Once you have prepared these files, proceed to the next step.





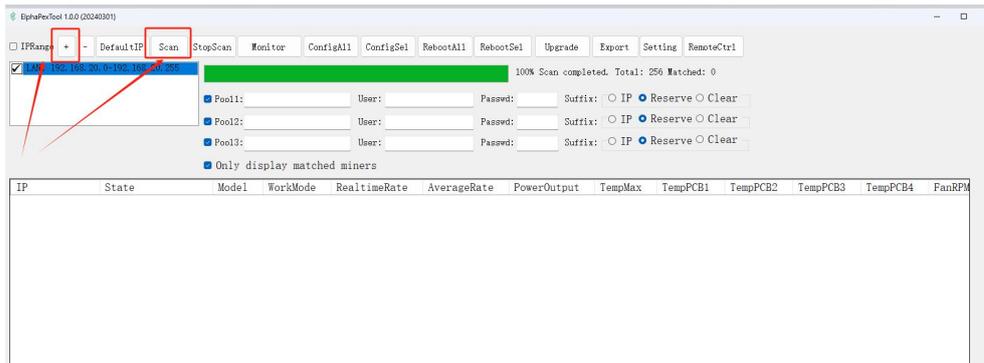
3 Connected properly

Connect the computer to the router, the mining machine (or control board) is also connected to the router (router to enable DHCP service), the computer and the mining machine in the same network segment (ordinary home router DHCP service is enabled by default, the default network port and WIFI is in a network segment, generally do not need to set.)

4 Upgrading by using ElphaPex Tool

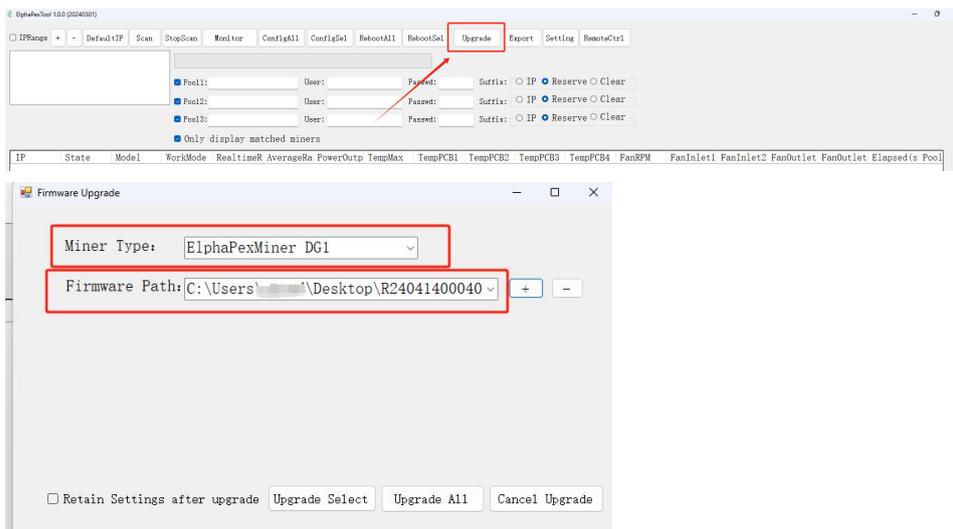
4.1 Sanning the miner

Click the “+” button and enter the correct IP range, then click the “Scan” button find the online miners.

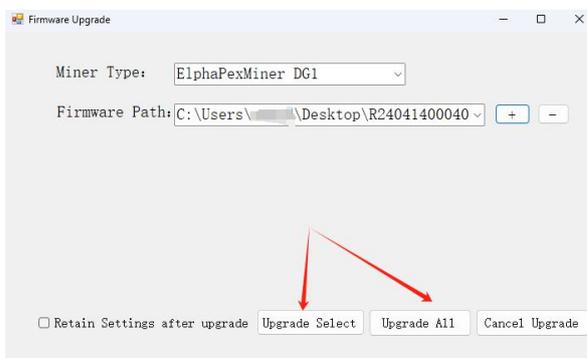


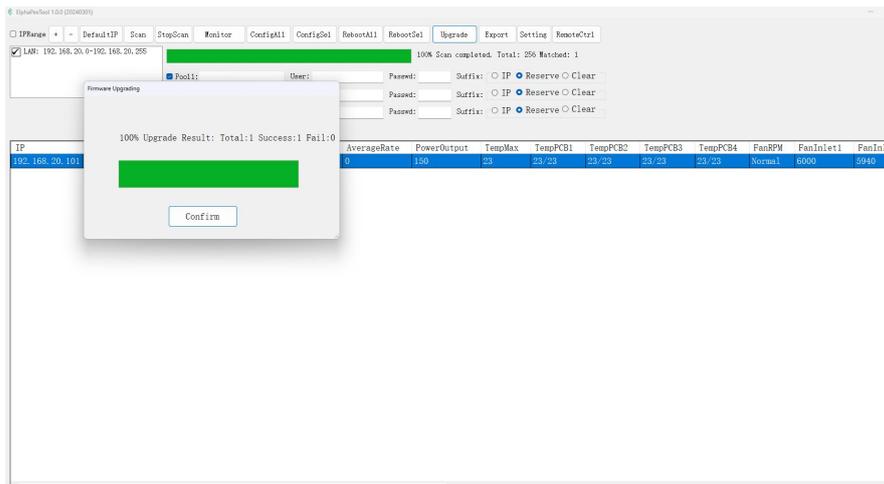
4.2 Upgrading Process

Select the required upgrading miner and click the **“Upgrade”** button above, then select your miner type and the correct firmware file path.



Click the **“Upgrade selected”**(upgrade the selected miners) or the **“Upgrade all”**(upgrade all miners) button, then you need wait about 1-2 minutes for the upgrading process.

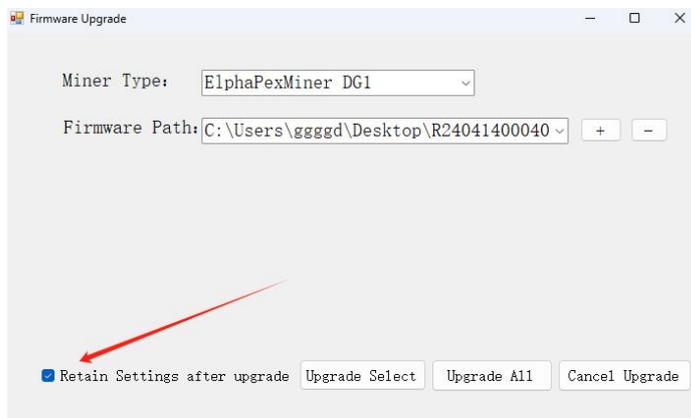




Wait for about 5 minutes for the DG1/DG1+ to upgrade and restart.

4.3 Kindly note

You can select the **“Retain settings after upgrade”** button if you wouldn’t like to change the settings after upgrade)

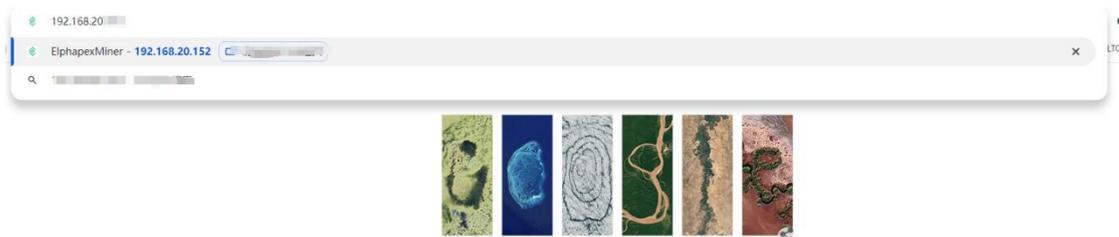


Once the upgrading is done, the success notification will pop up, after the upgrade is completed, please check again if the firmware version is the latest or not, if it is, the upgrade is successful. If it’s failed, please contact our after-sale service for assistance.

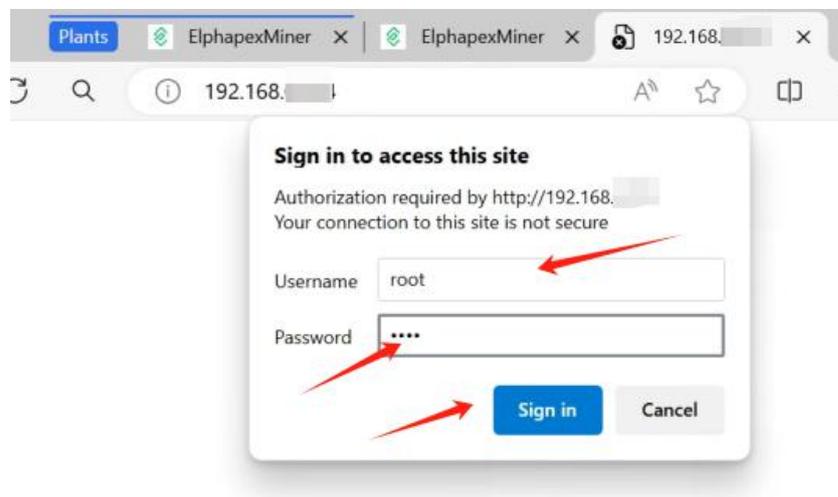
5 Upgrading by the miner IP interface (Individual Upgrade)

5.1 Log in to the miner

Open Google Chrome, type the obtained IP into the Google address bar and press enter.

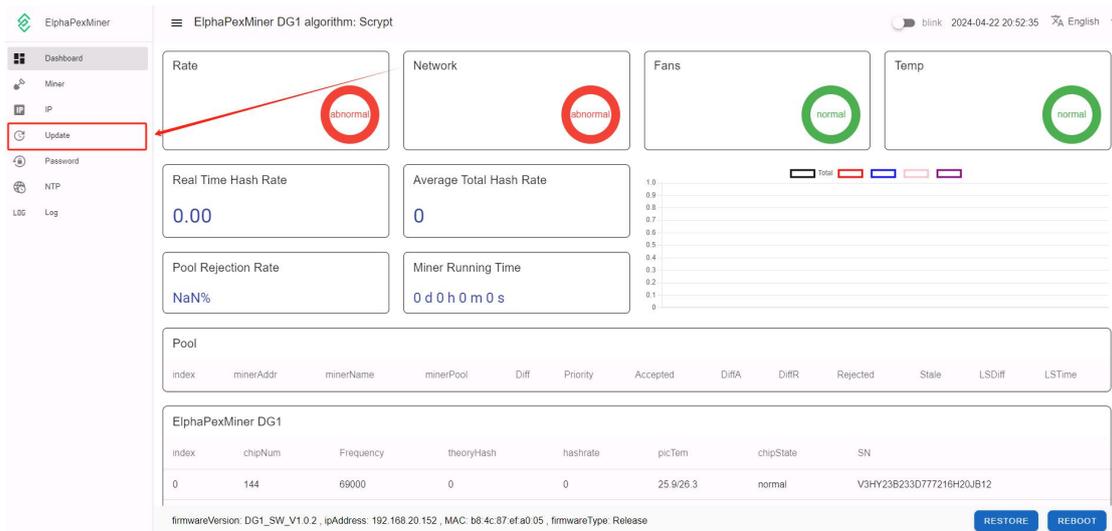


The user name and password will pop up. Enter your username and password, the default is root. If you have changed it yourself, use the password and username you set to log in.



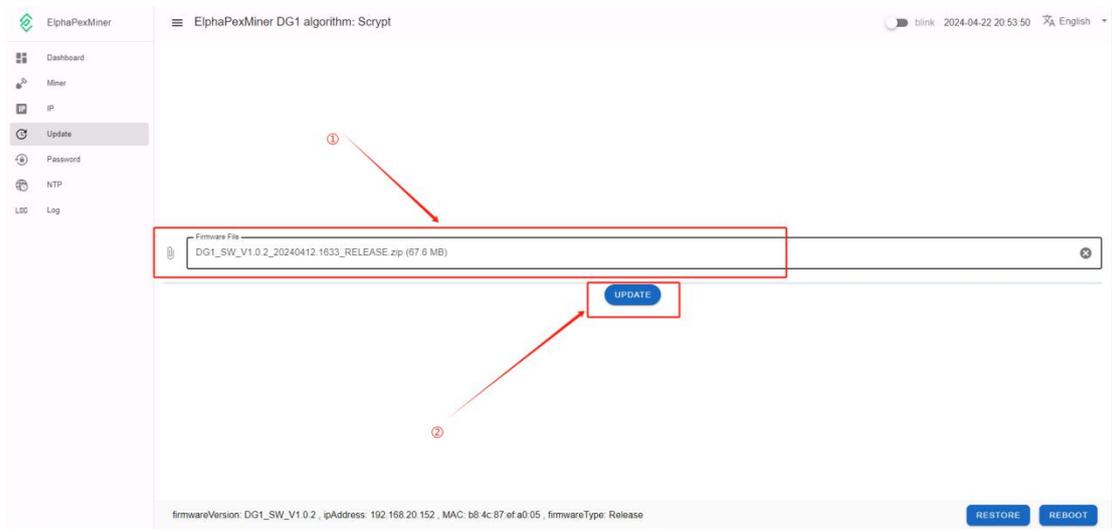
5.2 Miner Upgrade

Once you enter the back end of the miner, please click the “Update” button.

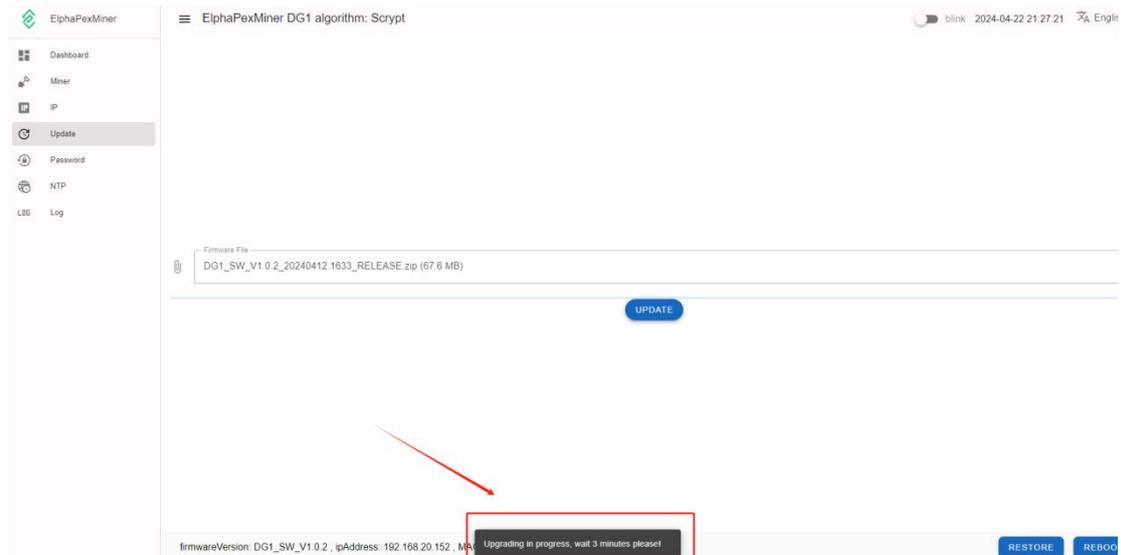


Click the Upload button ① in the firmware upgrade screen to open the file selection window and find the prepared firmware path. Select the corresponding firmware and open it.

After opening the selected firmware, the firmware name will be displayed in the window behind the firmware file, confirm that the firmware is correct and tap the **“Update”** button ② to upgrade the firmware.



After clicking upgrade firmware, the miner will indicate that **“Upgrading in process, wait 3 minutes please”**, at this time the miner will upgrade the firmware and reboot will take about 3 minutes.



Refresh the webpage after the upgrade is completed, we check again if the firmware version of the miner is the same as the upgraded firmware version, if it is, the upgrade is successful.



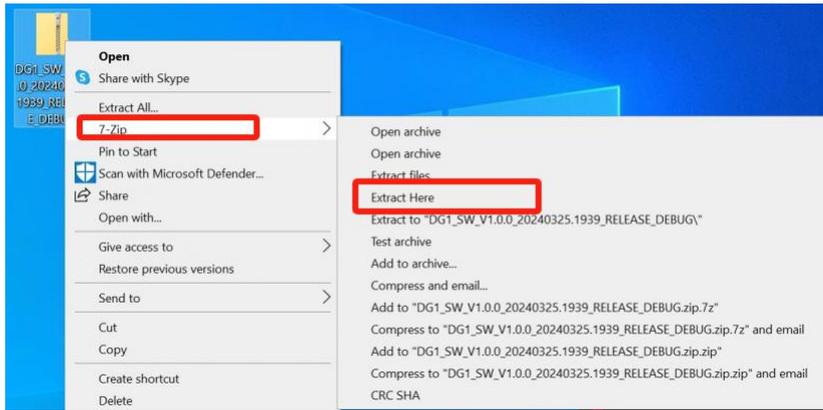
6 Flashing SD card upgrade

6.1 Create an Upgrade Disk

Creating an upgrade disk refers to inserting the SD card created by the ElphaPex_SDDiskTool card-making tool to the machine to upgrade, this section will introduce how to create a upgrade disk and some upgrade issues in details.

6.1.1 Preparing Tools

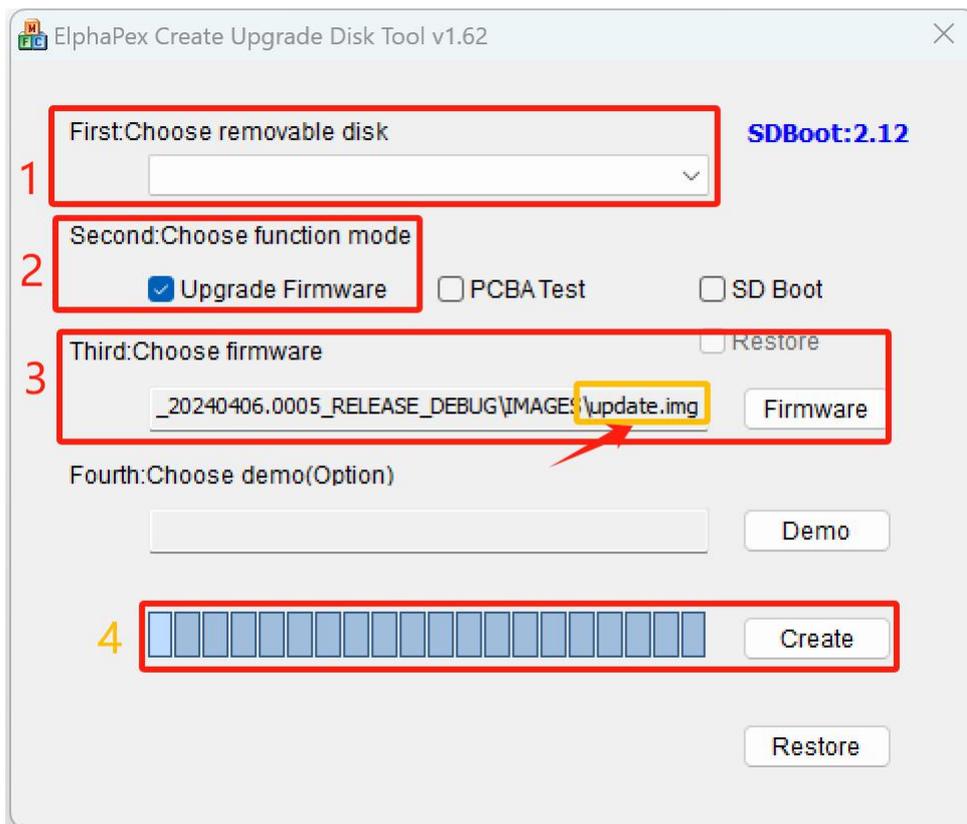
If the downloaded firmware is a compressed file, you need to first decompress it into an image file.



Prepare a new SD card with storage space \geq 4GB

6.1.2 Creating

As shown in the figure below, use the tool in the project directory "tools\ElphaPex_SDDiskTool_v1.62" to create an upgrade disk.



First: Choose removable disk, select the SD card you prepared;
 Second: Choose function mode, only tick "**Upgrade Firmware**";
 Third: Choose firmware, choose the packaged update.img file by the "**Firmware**" button;
 After that, click the "**Create**" button.

If the creation is successful, a prompt will appear. At this point, there will be two files in the root directory of the SD card, and the upgraded firmware update.img will be named sdupdate.img.

6.2 Upgrade

After all the preparations are completed, insert the SD card into the DG1/DG1+ and power on.

Wait for about 5 minutes until the red and green LEDs flash slowly, indicating a successful upgrade. Remove the SD card, and the device will automatically restart and enter a normal state.

7 Contact us

If you have any questions, please feel free to contact ElphaPex Customer Support.



[< Contact us >](#)