

DG 1 Server Manual



DG 1 Server Manual

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Regulations

1. Overview

The DG 1 Server is the latest machine launched by AlphaPex with scrypt algorithm, which consists of a central hash boards box, four fans, a power supply and a main control box. All DG 1 Servers are tested and configured prior to shipping to ensure easy set up.



Front View



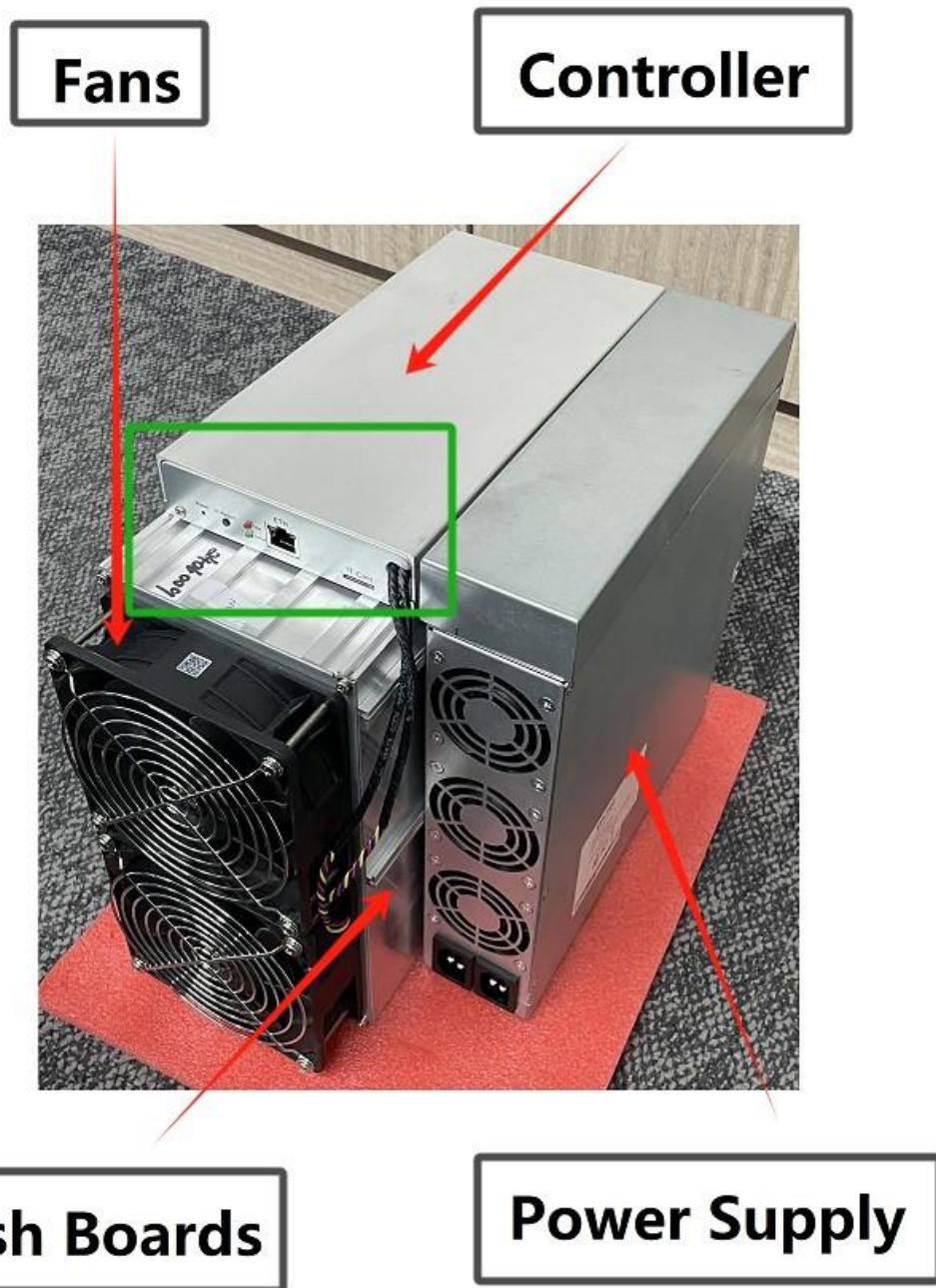
Back View

Notes:

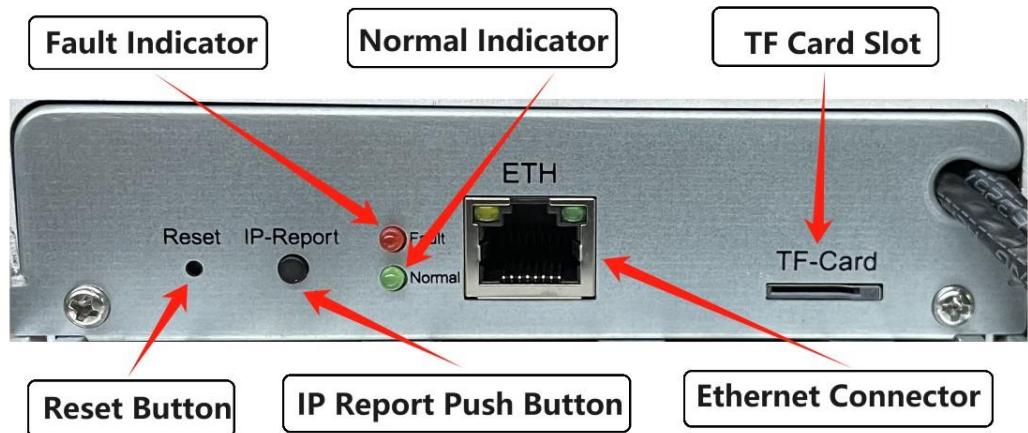
- Place the server and route cables properly to ensure proper working status of the server.
- Do not remove the server cover during normal operation. Ensure that the screws are tightly screwed and the cover is sealed.
- The server must be connected to an earthed mains socket-outlet. The socket-outlet shall be installed near the server and shall be easily accessible.
- Connect the two power sockets of the server to two power sockets at the same time. When powering off the device, ensure that all power inputs are disconnected.
- DO NOT remove any screws and cables tied on the product.
- This varies from server to server, the actual situation prevails.

1.1 Server Components

The main components and controller front panel of DG 1 Servers are shown in the following figure:



Controller Board Interface:



FP-101 Power Supply:



Notes:

- Power supply FP-101 is part of DG 1 server. For detailed info, please refer to the specifications below.

1.2 Specifications

Version: 1.0.0

Model No.: DG 1

Product Glance	Value
Version	1.0.0
Model	DG 1
Crypto Algorithm/Coins	Scrypt
Hashrate, MH/s	11000 ± 3%

power on wall@25°C, Watt	3420 ± 10%
power efficiency on wall @ 25°C , J/MH	0.31 ± 10%

Detailed Characteristics	Value
Power Supply	
Power supply AC input voltage, Volt (1-1)	200-240
Power supply AC Input Frequency Range, Hz	47~63
Power supply AC Input current, Amp(1-2)	25(1-3)
Hardware Configuration	
Network connection mode	RJ45 Ethernet 10/100M
Server Size (Length*Width*Height, w/o package), mm(2-1)	369.3*196*287
Server Size (Length*Width*Height, with package), mm	480*289*387
Net weight, kg (2-2)	16.1
Gross weight, kg	17.4
Environment Requirements	
Operation temperature, °C	0~40

Storage temperature, °C	-20~70
Operation humidity(non-condensing), RH	10~90%
Operation altitude, m(3-1)	≤2000

Notes:

- Caution: Wrong input voltage may probably cause equipment damaged
- Max condition: temperature 40°C, altitude 0m
- Ensure that two power cables are used at the same time. The typical current of each cable is 10A.
- In the altitude range of 900 ~ 2000m, the maximum operating temperature drops by 1°C for every 300m increase.

2. AlphaPexTool Guide

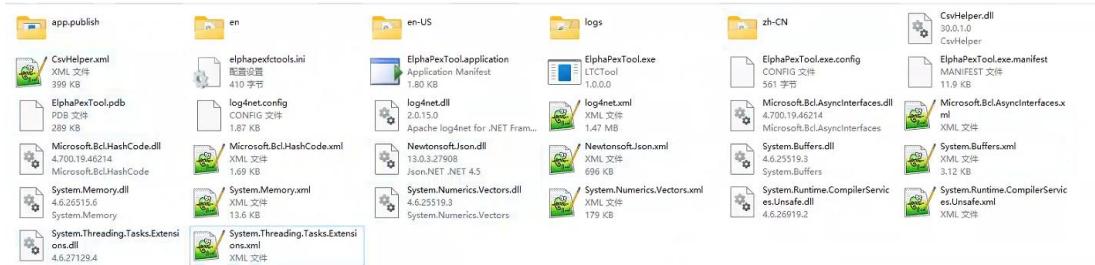
Note: You can **SKIP** this step if you already know its IP address and can use website to configure the mining info.

1. Get software pack **ElphapexTool_1.0.0_20240301_Release_EN** from www.elphapex.com

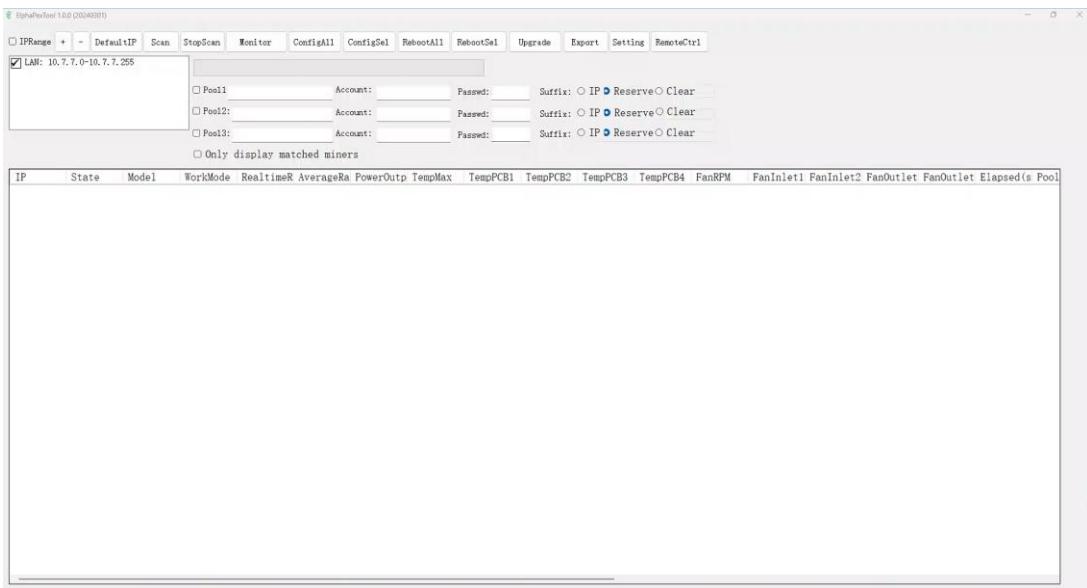
Notes:

- **AlphaPexTool** is now only available on windows platforms

2. Extract the file.

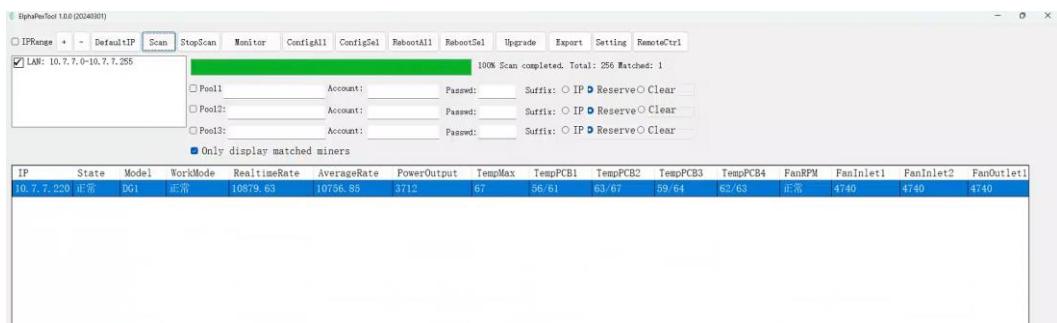


3. Open the software **AlphaPexTool.exe** and click on **[+]** , Add the corresponding network segment range



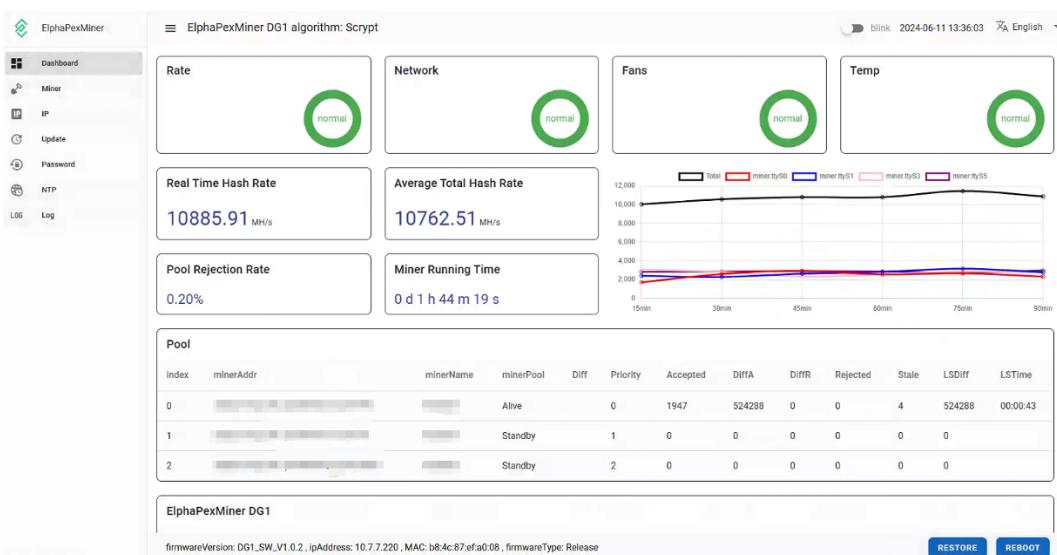
4. Press the Scan button.

The information about servers in the current network segment is displayed in a list.



5. Double-click the selected line, this will open the browser to the server's web page.

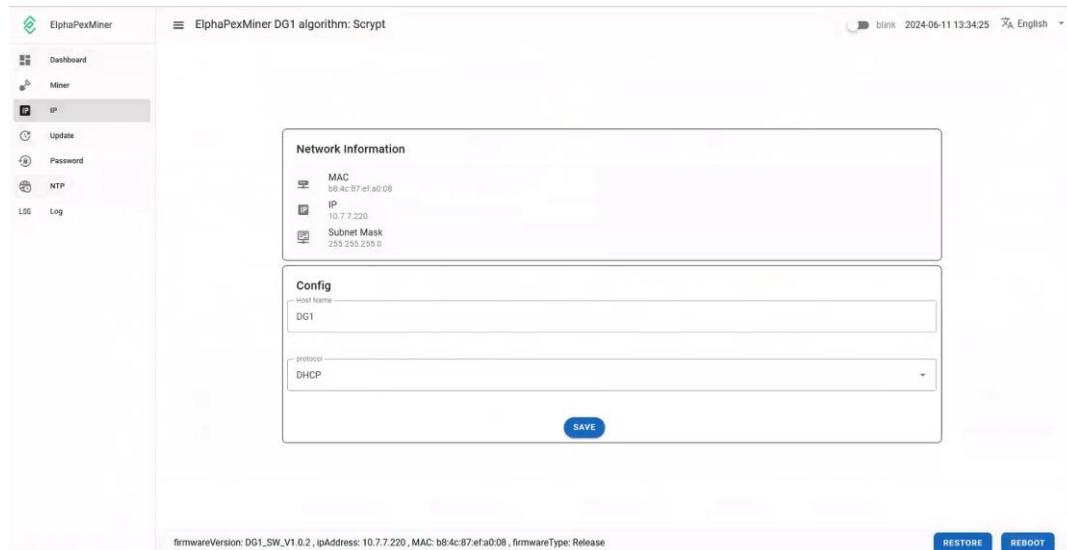
6. Proceed to login using **root** for both the username and password.



7. In the IP section, you can assign a Static IP address (optional).

8. Enter the IP address, Subnet mask, gateway and DNS Server.

9. Click **SAVE** button.



ElphaPexMiner D01 algorithm: Script

Dashboard Miner IP Update Password NTP Log

Network Information

- MAC: b8:4c:87:ef:a0:08
- IP: 10.7.7.220
- Subnet Mask: 255.255.255.0

Config

- Host Name: DG1
- protocol: DHCP

SAVE

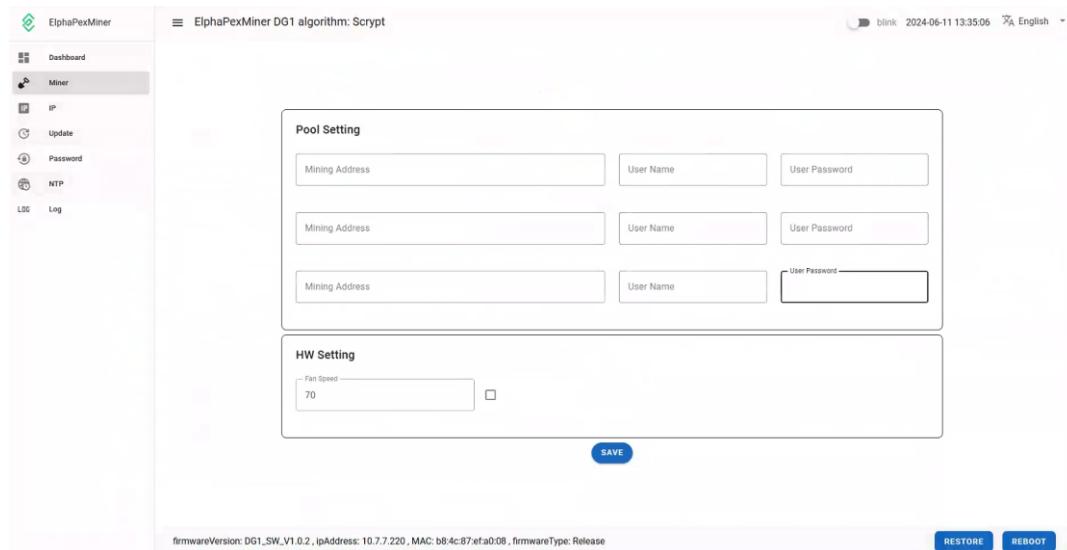
firmwareVersion: DG1_SW_V1.0.2, ipAddress: 10.7.7.220, MAC: b8:4c:87:ef:a0:08, firmwareType: Release

RESTORE REBOOT

3. Server Configuration

3.1 Pool Configuration

1. Enter server web page, click Miner Section:



ElphaPexMiner D01 algorithm: Script

Dashboard Miner IP Update Password NTP Log

Pool Setting

Mining Address	User Name	User Password
Mining Address	User Name	User Password
Mining Address	User Name	User Password

HW Setting

Fan Speed	70
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SAVE

firmwareVersion: DG1_SW_V1.0.2, ipAddress: 10.7.7.220, MAC: b8:4c:87:ef:a0:08, firmwareType: Release

RESTORE REBOOT

Notes:

- Note that please DO NOT adjust the fan speed by yourself although it can be configured. The server itself will tune the fan speed automatically going along with the environment temperature changes.*

2. Set the options according to the following table:

Option	Description
--------	-------------

Mining address	Enter the address of your desired pool.
Name	Your worker ID on the selected pool.
Password (optional)	The password for your selected worker.

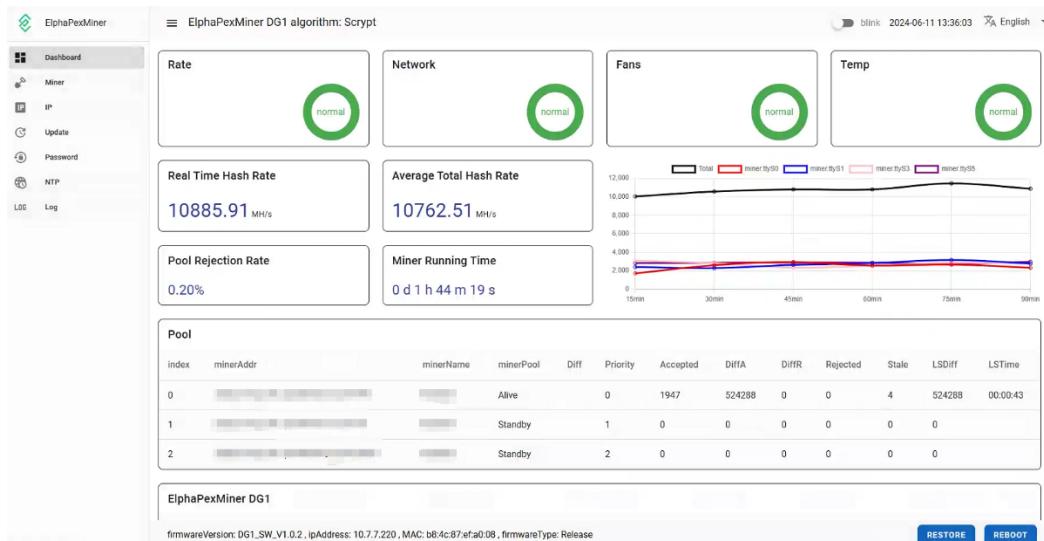
Notes:

- The DG 1 server can set up three mining pools(pool 1 to pool 3) at the same time.
- The priority of pools 1 through 3 is reduced in turn, and when a pool with a higher priority is offline, a pool with a lower priority will be put into use

3. Click **SAVE** after the configuration.

4. Server Monitoring

1. Click **Dashboard** marked below to check the server status (taking DG 1 as an example).



Notes:

- When the temperature of the outlet reaches 85 °C, the temperature control policy of the DG 1 server will activate the high temperature protection and the mining process will stop

2. Monitor your server according to the descriptions in the following table:

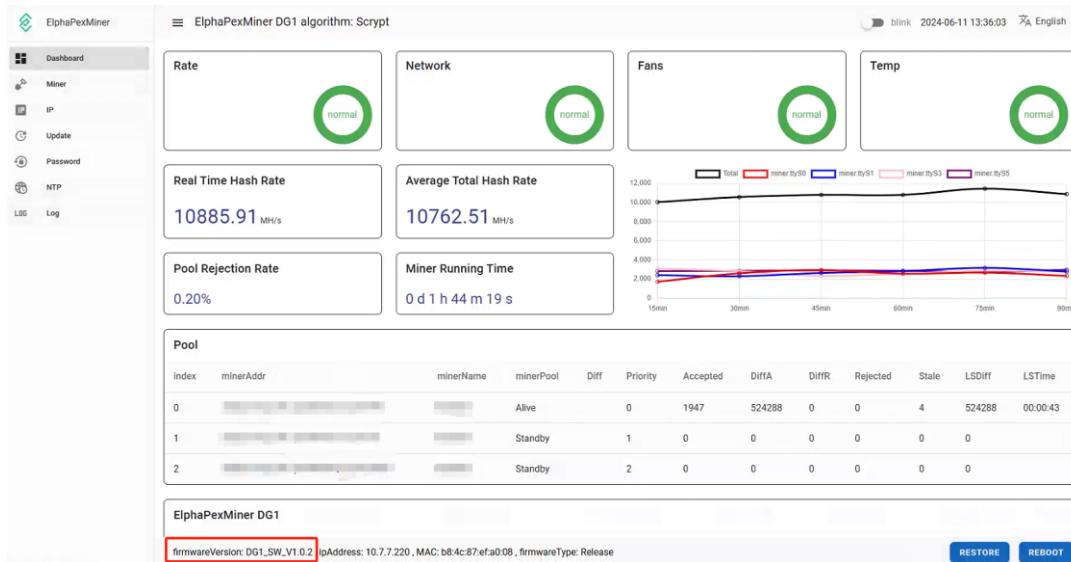
Option	Description
chipNum	Number of chips detected in the chain.
Frequency	ASIC frequency.

theoryHash	Theoretical hash rate of each hash board (MH/s).
hashrate	Board level hash rate of each hash board (MH/s).
picTem	Onboard Temperature of each hash board(inlet/outlet) (°C).
chipState	Chip operating state <ul style="list-style-type: none"> • Normal • Abnormal
SN	Series Number of each hash board

5. Server Management

5.1 Firmware Version Check

1. Enter the backstage web site of your server, find the firmware version on the bottom.
2. **firmwareVersion** displays the current release version your server uses. In the examples below, the server is using firmware version: **DG1_SW_V1.0.2**



5.2 System Update

Notes:

- During the firmware upgrade, ensure that the server remains powered on and no other operations are conducted.

- The DG1 server provides support for firmware upgrades using the **.img** and **.zip** file extensions.

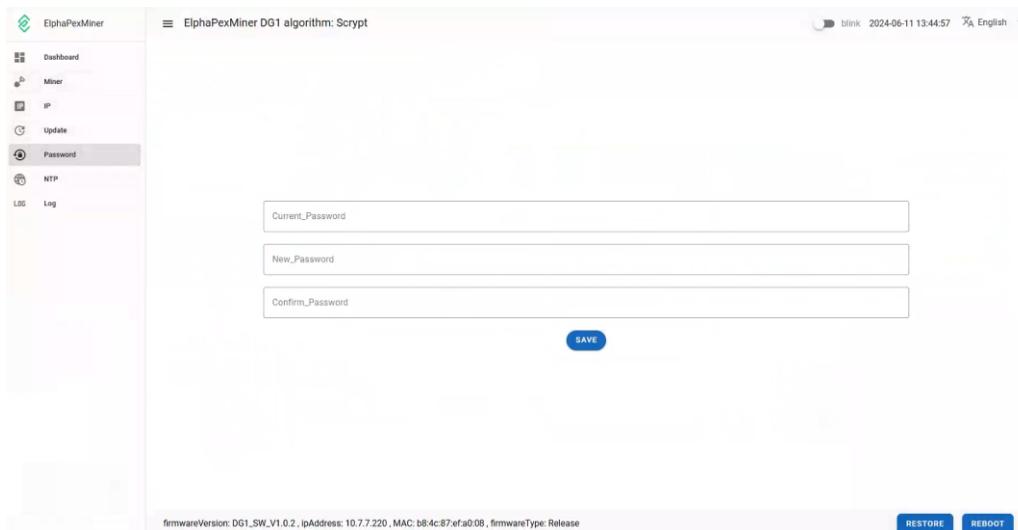
1. In Web site page, click **Update** to enter the firmware upgrade page.
2. Click **Firmware File** input field, select the **.img** or **.zip** firmware file, and then click **UPDATE**, The server will start the firmware update process.



3. When the update process is completed, the server will restart and it will turn to the Dashboard page.

5.3 Password Change

1. In Web site page, click **Password**.
2. Enter the current password and the new password, then click **SAVE**.



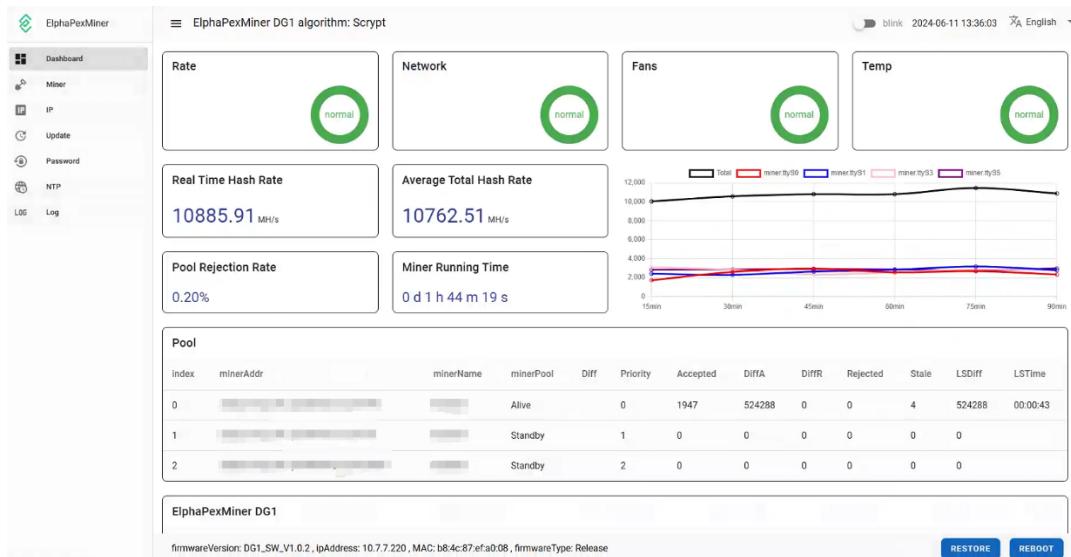
5.4 Restoring Initial Settings

Notes:

- The RESTORE operation will clear the pool Settings and restore the original password.

Exercise caution when performing this operation.

1. In Web site page, Click RESTORE button.



Regulations

Notice:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1). This device may not cause harmful interference.

(2). This device must accept any interference received, including interference that may cause undesired operation. **CAN ICES-003(A) / NMB-003(A) Note:**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.