DG Home 1 Server Manual

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www.elphapex.com

1. Overview

The DG Home 1 Server is the latest machine launched by ElphaPex with scrypt algorithm, which consists of a square box similar to a desktop computer, a set of water cooling radiator, a power supply, a control board and a hash board, with high yield and low tolerable noise, suitable for home mining. All DG Home 1 Servers are

tested and configured prior to shipping to ensure easy set up.

Front View	Back View
	

Notes:

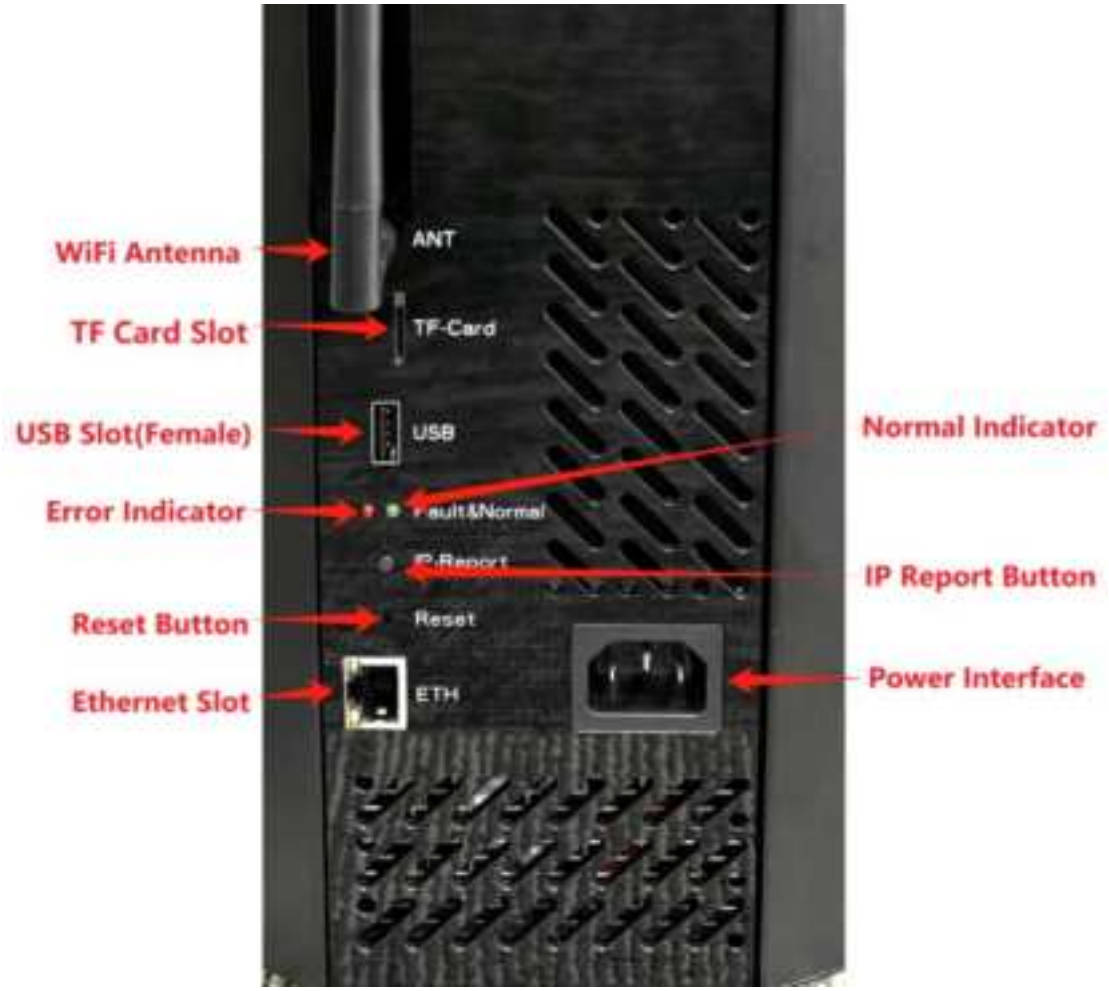
- *Place the server and route cables properly to ensure proper working status of the server.*
- *Do not remove the server cover during normal operation. Ensure that the screws are tightly screwed and the cover is sealed.*
- *The server must be connected to an earthed mains socket-outlet. The socket-outlet shall be installed near the server and shall be easily accessible.*
- *Please make sure the power socket is connected stably.*
- *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 control board, hash board, power supply, and water cooling radiator of DG Home

1 Server are all integrated inside the box. From the outside, there is only the box, cooling holes, and interface windows.

Interface Windows:



Notes:

- The power supply model of DG Home 1 Server is FP-104, and the water cooling radiator is integrated inside the chassis. Please do not open the chassis by yourself to avoid accidents such as short circuit and leakage.

1.2 Specifications

Product Glance	**Value**
Version	**1.0.0**
Model	**DG Home 1**
Crypto Algorithm/Coins	**Scrypt**

Hashrate, **MH/s**	**2100 ± 3%**
power on wall@25℃, **Watt**	**630 ± 10%**
Hashrate- High Perf Mode, **MH/s**	**2300 ± 3%**
Power on wall@25℃ - High Perf Mode, **Watt**	**700 ± 10%**
power efficiency on wall @**25°C**, **J/MH**	**0.3 ± 10%**

Detailed Characteristics	**Value**
Power Supply	
Power supply AC input voltage, **Volt**	**100-240**
Power supply AC Input Frequency Range, **Hz**	**47~63**
Power supply AC Input current, **Amp**	**10**
Hardware Configuration	
Network connection mode	**RJ45 Ethernet 10/100M** **WIFI 1x1/802.11 bgn**
Server Size (Length*Width*Height, w/o package), **mm**	**418*370*135**
Server Size (Length*Width*Height, with package), **mm**	**575*540*310**
Net weight, **kg**	**10.2**
Gross weight, **kg**	**13.5**
Environment Requirements	
Operation temperature, **°C**	**0~40**

Storage temperature, **°C**	**0~40**
Operation humidity(non-condensing), **RH**	**10~90%**
Operation altitude, **m**	**≤2000**

Notes:

- *Caution: Wrong input voltage may probably cause equipment damaged
- Max condition: temperature 0-40°C, altitude 0m.
- Please make sure the storage and operation temperature are both within 0-40°C. Otherwise the miner may be damaged.
- The typical current of power cable is 10A.
- In the altitude range of 900 ~ 2000m, the maximum operating temperature drops by 1℃ for every 300m increase.

2. ElphaPexTool Guide

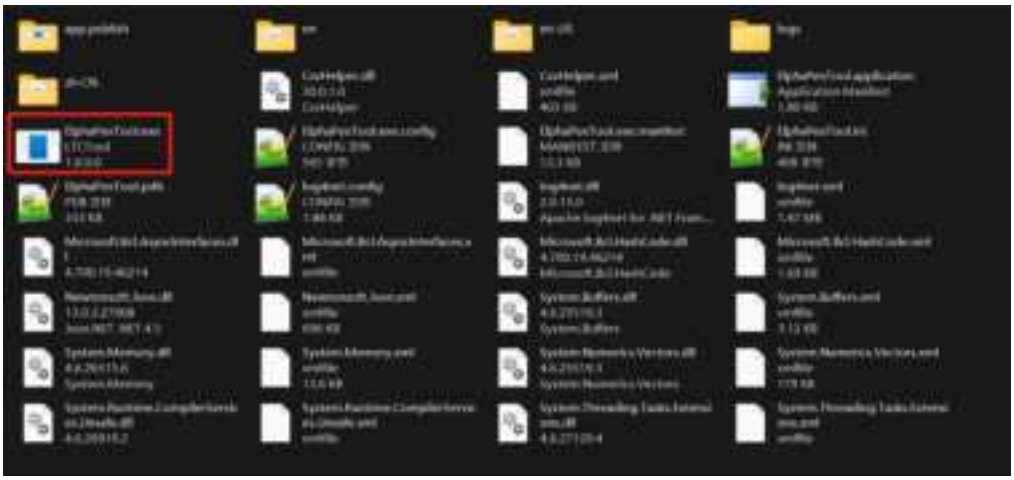
Note: You can **SKIP** this step if you already know its IP address and can use website to configure the mining info.

1. Get software pack ***ElphaPexTool*** from www.elphapex.com

Notes:

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

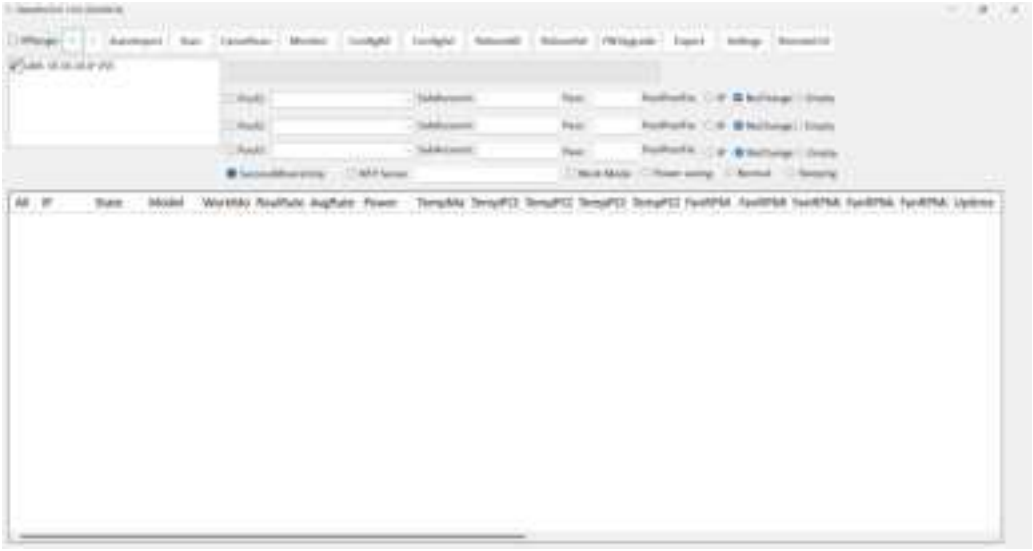
2. Extract the file.



3. Open the software ***ElphaPexTool.exe*** and click on 【+】, Add the corresponding network segment range

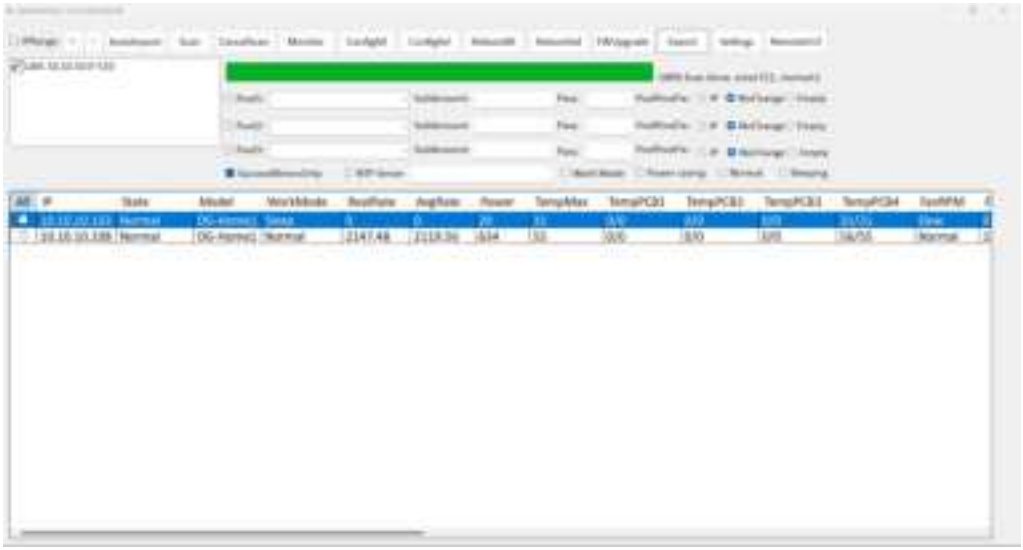
Notes:

- Please make sure that the host computer and the server are in the same internal network, including wired network and wireless network



4. Press the **Scan** button.

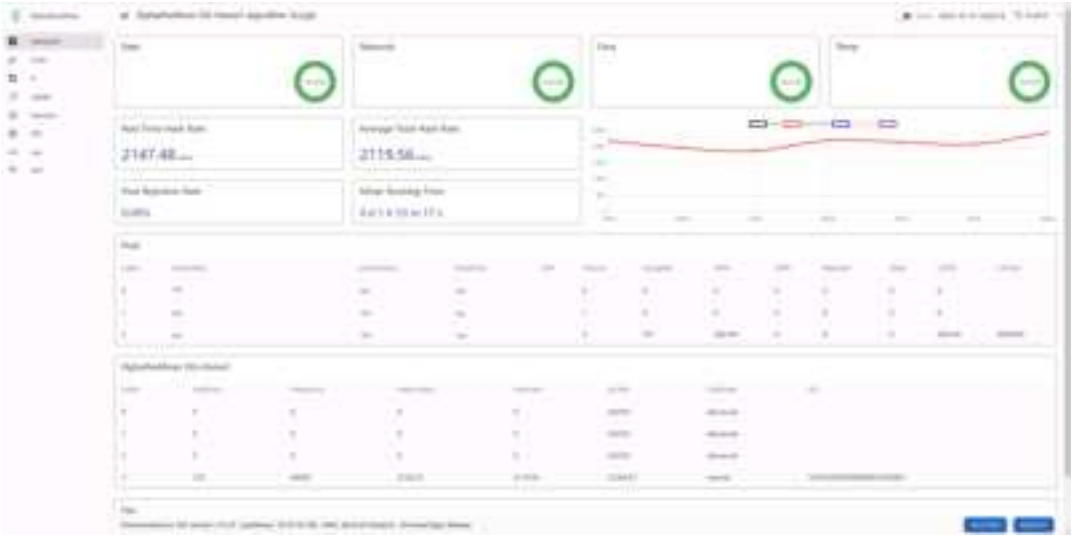
The information about servers in the current network segment is displayed in a list.



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.

3. Server Monitoring

1. In the ElphaPexTool , double-click the corresponding IP line to enter the server background page, click dashboard to check the server status



Notes:

- *When the temperature of the outlet reaches 85 ℃, the temperature control policy of the DG Home 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:

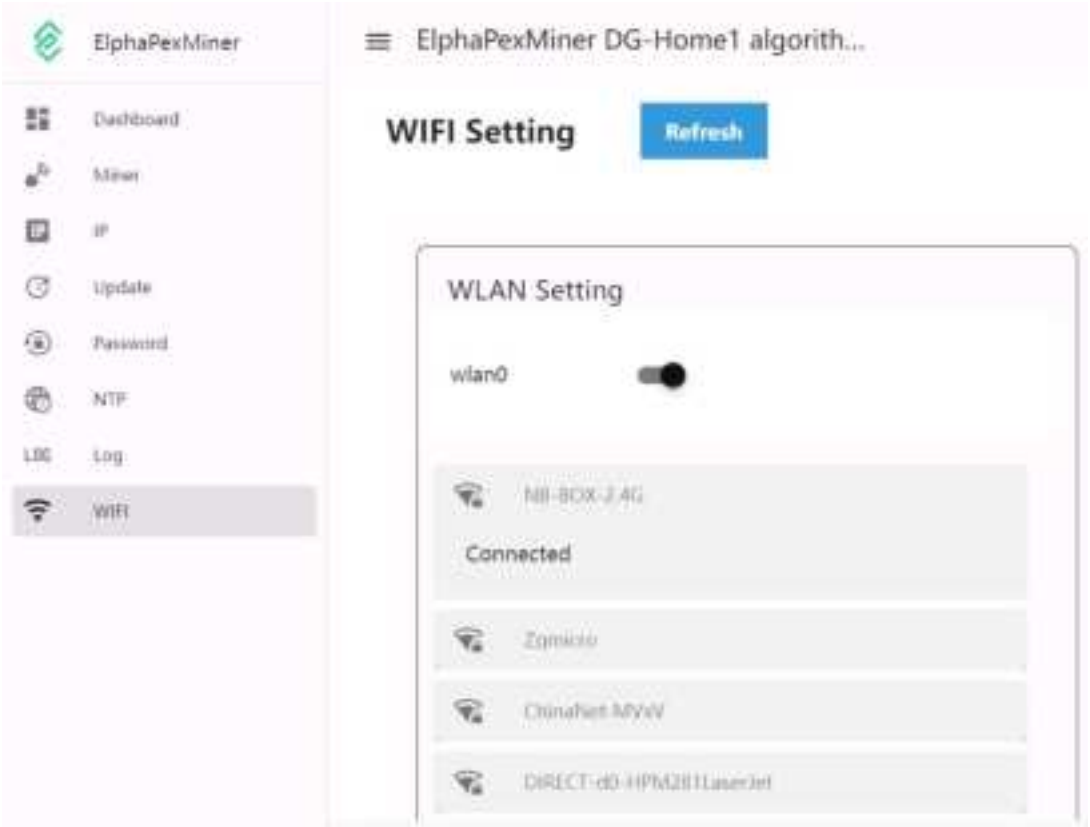
Option	Description
index	Hash board interface number
chipNum	Number of chips detected in the chain.
Frequency	ASIC frequency.

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 • normal • abnormal
SN	Series Number of each hash board

4. Server Configuration

4.1 WiFi Configuration

1. Connect the server to Ethernet, then enter the web page
2. Enter **WIFI** Section, click **Refresh** Button
3. Select the corresponding WiFi hotspot and enter the password. The server will connect to the corresponding WiFi hotspot.



4. After that, you can disconnect the Ethernet connection, then use ElphaPexTool to rescan the server IP. After configuring the mining pool, you can enjoy wireless network mining

4.2 Pool Configuration

1. Enter server web page, click **Miner** Section:

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 your pool address
User Name	Your worker ID on the selected pool.
User Password	The password for your selected worker.

Notes:

- *The DG Home 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.

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: **DG-Home1_V1.0.0**

5.2 System Update

Notes:

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

- *The DG Home 1 server provides support for firmware upgrades using the .img and .zip file extensions.*
- *The DG Home 1 server* supports firmware updates in both wired and wireless networks

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.