



# StrongU Miner™

STU - U6

## Operating Instructions

V1.1



Shenzhen StrongU Technology Co., Ltd.

<https://strongutech.com>

## Important Safety Information

**The miner produces a lot of heat during operation. Please follow the requirements below:**

1. Prevent the body from direct contact to avoid burns;
2. Keep the product at the appropriate temperature and humidity and in a ventilated place: Control the temperature to the range of 0-40°C and ambient humidity to be less than 65%.
3. Protect the product from dust, in order to avoid poor heat dissipation as a result of dust accumulation.

**This high-power machine has a large operating current. Please take the precautions below:**

1. Check this machine regularly and keep the cables in good connection.
2. Do not connect or disconnect this machine in the live status to avoid damage to the machine or personal injuries.



If you find any of the following cases or are worried about the product safety, stop this product first, disconnect the power supply and remote communication line and contact technical support personnel.

- ✧ **The power cable, plug and extension cable is broken or damaged.**
- ✧ **The product has a cracking or fizzing or bursting sound or strong smell.**
- ✧ **The product falls off or is damaged by any means.**
- ✧ **This product does not work properly when operated in accordance with the operating instructions.**

## Packing List

- 1 miner
- 1 power cable

The control panel, power supply and hash board are integrated in the StrongU miner. The wires of all parts have been connected in the factory, so the user only needs to connect the network cable and the power cable.



### Unpacking inspection:

- Check whether the package and miner for damage and deformation.
- Check the fan, flexible flat cable, power cable and fan cable for damage.
- Check whether all wires are connected correctly or whether they are loose, damaged or fall off.

**Connect and tighten the cable that is loose.**

**In the case of damage, take photos as evidences, and contact customer service.**

## Technical parameters

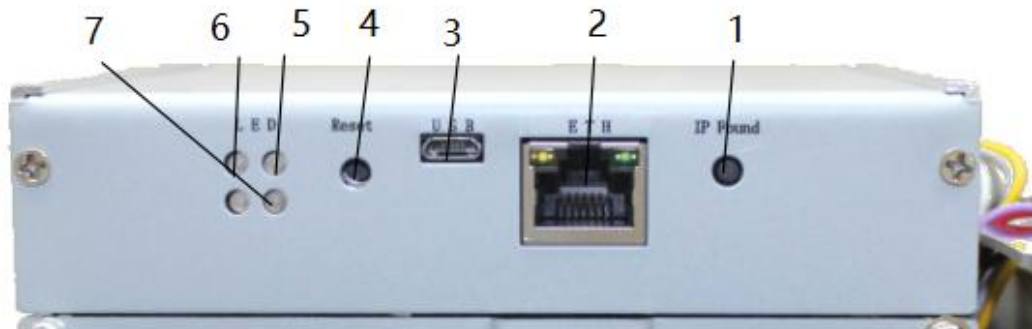
- Power input: AC 220V, DC 11-14V
- Power supply efficiency:  $\geq 93\%$
- Protection features: over-current, short circuit, over-voltage, under-voltage and over-temperature
- Hash rate: U6 (420G $\pm 10\%$ )
- Power consumption: U6 (2100W $\pm 10\%$ )
- Operating temperature: 0°C to 40°C
- Operating humidity: 5%RH-95%RH, no condensation
- Network connection: Ethernet
- Noise: 76dB

## Product overview



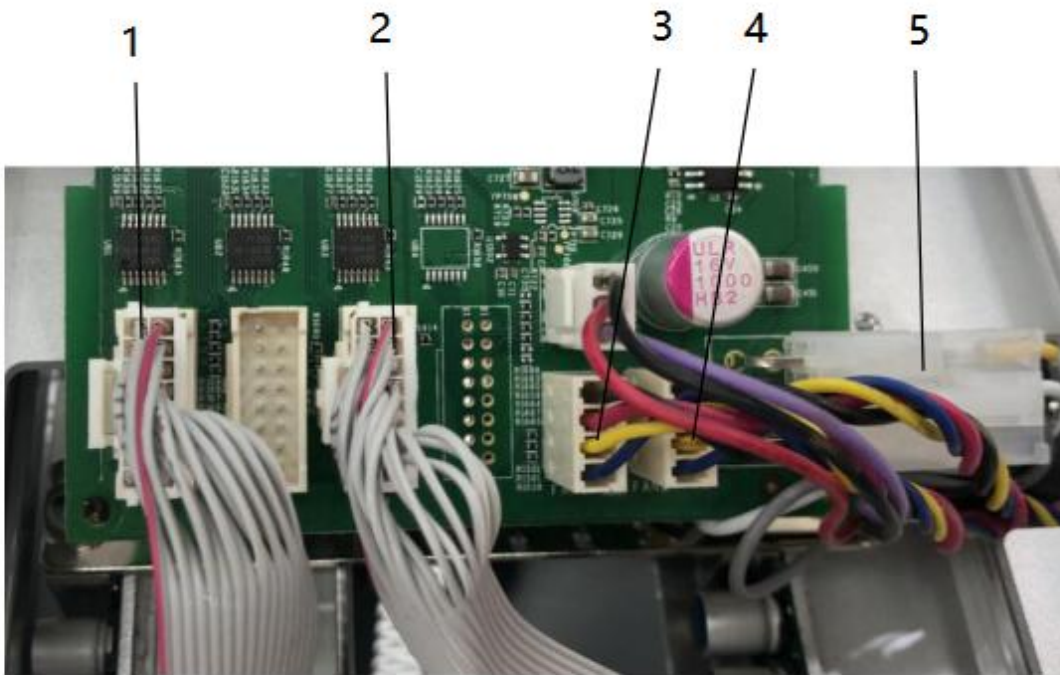
### Basic structure:

1. Chassis: including main components such as hash board
2. Power supply: digital switching power supply module
3. Control board: hash control module
4. Fan: forced heat dissipation module



### Controller panel:

1. IP Found: short-press (1-2s) it to send the IO of the miner to the PC ipreporter. Long-press (5-10s) it to restore the factory settings of the ip of the miner and configuration of the pool.
2. ETH: RJ45 interface for the network cable to be connected with the LAN.
3. micro USB: engineering maintenance interface
4. Reset button: restart the miner.
- 5&7, LEDs: hash board operation indicator  
If these indicators are normally ON, it indicates that the hash boards work properly. If these indicators flicker, it means that the hash drops. If these indicators are OFF, it indicates that the hash boards fail. "5" corresponds to the hash board 1, "6" to the hash board 2, and "7" to the hash board 3.
6. LED: product status indicator. If this indicator is normally ON, it indicates that the product works properly. If this indicator is OFF, it means that this product fails.



**Controller interfaces:**

- 1. Data cable of hash board 1    2. Data cable of hash board 2    3. Fan 1    4. Fan 2**  
**5. Power cable of control panel**

## Network environment requirements

This product only supports the cabled access to network through RJ45 interface.

It does not support the POE (Power Over Ethernet) power supply router (switch).

The DHCP service of the router (switch) must be enabled.

## Cable connection

### 4. Network cable connection

Insert the RJ45 network cable connector into the jack of the controller panel. When the plug is inserted in place, a clicking sound can be heard under normal circumstances.

### 5. Power cable connection

Insert one end of the power cable into the power socket, and the other end into the AC mains socket.

## Installation configuration

After connecting the cables, turn on the power supply. The miner will start running. The three LED blue indicators on the controller panel will be normally ON after self-testing. Conduct the operations according to the sequence below.

## Miner IP detection

1. Prepare a computer equipped with the windows system, and install the ip reporter.

### *ipreporter installation*

**1. Visit the link [https://strongutech.com/stu\\_IP\\_Reporter\\_V1.1](https://strongutech.com/stu_IP_Reporter_V1.1), and download the installation package.**

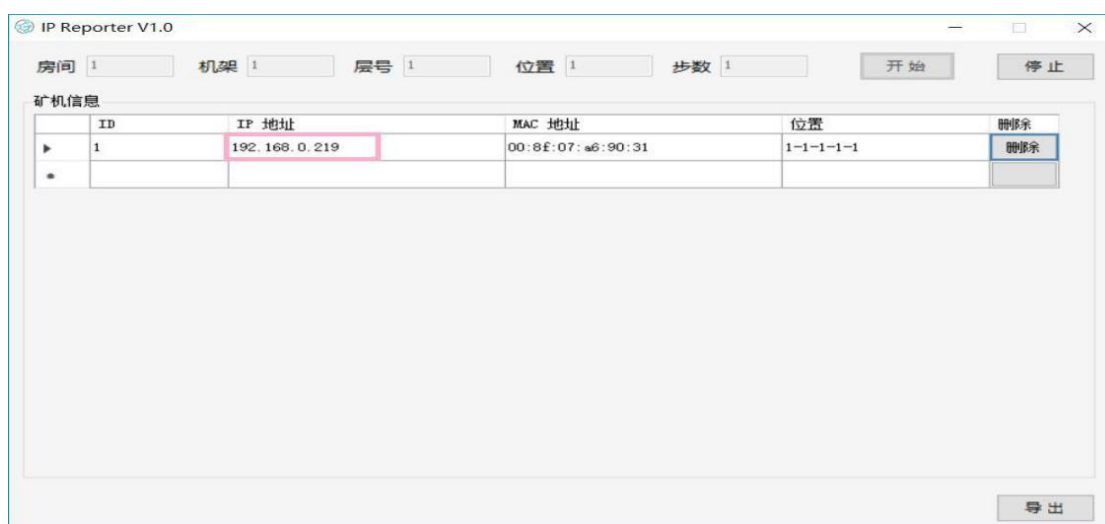
**2. Decompress and run it.**

2. Connect the computer and miner into the LAN within the same segment.

3. Start ipreporter in the PC, and click Start.

4. Press “IP Found” on the controller panel of the miner for 1-2s.

5. View the ip in the pop-up box of the ip reporter in the PC.



**Long-press **IP Found** for 5-10s, and the factory settings of the miner will be restored.**

**Conduct **Miner IP detection** again after the factory settings are restored.**

## Network configuration

1. Start the browser in the PC (recommendation: CHROME/IE/FIREFOX).
2. Enter the IP obtained by the Ip reporter in the previous step into the browser address bar, similar to “192.168.xx.xx”. Fill in the username and password and press “Enter”.

**Default username: “root”; password: “root”**

3. The current network configuration of the miner will be shown in the miner management interface.

The screenshot displays the StrongU miner management interface. The top navigation bar includes 'System', 'Miner Status', 'Miner Monitor', 'Miner Configuration', and 'NetWork'. The 'NetWork' tab is active, showing a 'Network' section with a 'Setting' button. The network configuration is as follows:

Parameter	Value
Type	Static
Address	192.168.0.182
Netmask	255.255.255.0
Gateway	192.168.0.1
DNS	114.114.114.114

Other sections visible include 'System' (Miner Type: U1000, Hostname: stuMiner, Hardware Version: 18.7.22.08, Kernel Version: Linux 4.1.15+gb63f3f5 #3 SMP PREEMPT Mon Jul 2 20:36:40 CST 2018, File System Version: Wed May 5 18:38:52 CST 2018, Cgminer Version: 4.10.0, Uptime: 20:27, Load Average: 0.95, 0.70, 0.66, Chip ID: 0x60435a43-d2911e24) and 'Memory' (Total Available: 28208 kB / 119456 kB (24%), Free: 90248 kB / 119456 kB (76%), Cached: 6216 kB / 119456 kB (5%), Buffered: 0 kB / 119456 kB (0%)).

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**If the miner management page is not accessible, conduct the operations below:**

1. Check the IP.
2. Long-press “IP Found” for 5-10s to restore factory settings. Then perform “Miner IP detection” again



4. Perform one of the following two operations:

1) Accept the default dynamic ip configuration (recommended), and directly click **Miner Configuration** in the header to enter the **Pool Configuration** page.

2) Set the static ip configuration. Click **Setting** in the lower right corner or **NetWork** in the header to change network configuration.

#### *Network configuration change*

1. Click **Static** to enter the setting page.

2. Set the network parameters (consult the LAN administrator).

3. Click **Save & Apply** in the lower right corner and save the configuration.

The screenshot displays the 'Network Settings' interface of the StrongU system. At the top, there is a navigation bar with the StrongU logo and menu items: System, Miner Status, Miner Configuration, and NetWork. The main content area is titled 'Network Settings' and contains several configuration fields:

NTP Server	pool.ntp.org
Protocol	Static (selected)   DHCP
IP Address	192.168.101.36
Netmask	255.255.255.0
Gateway	192.168.101.1
DNS Servers	192.168.101.1
MAC Address	00:8F:79:83:A2:D3

At the bottom right of the form, there are two buttons: 'Reset' and 'Save&Apply'. A copyright notice at the very bottom reads: 'Copyright © 2018-2019, ShenZhen Strongu Technology'.

4. Enter a new ip in the browser address bar for access to the miner.

5. Click “Miner Configuration” in the header and go to **Pool Configuration**.

## Pool Configuration

- The StrongU STU-U6 miner supports DASH and IMG (DASH by default). You can click “Cryptocurrencies” in the drop-down menu of the upper right corner to switch the currency.
- The StrongU STU-U6 miner supports at most three pools for each currency. If the current pool is not available, next available pool will be connected automatically according to the priority order.
- Prior to mining, configure at least one pool parameter, including the URL (pool address: port), Worker (mining worker name) and Password. Conduct the pool operator for specific parameters.
- Then click **Save&Apply** in the lower right corner to save the configuration.

The screenshot displays the 'Miner General Configuration' page. At the top, there is a navigation bar with tabs for 'System', 'Miner Status', 'Chip Monitor', 'Miner Configuration', and 'Network'. The 'Miner Configuration' tab is active. Below the navigation bar, the page title is 'Miner General Configuration'. On the right side, there is a 'Cryptocurrencies' dropdown menu currently set to 'DCR'. The main content area is divided into three sections: 'Pool1', 'Pool2', and 'Pool3'. Each section contains three input fields: 'URL', 'Worker', and 'Password'. The 'URL' field in the 'Pool1' section is highlighted with a red box. At the bottom right of the configuration area, there is a blue 'Save&Apply' button. At the very bottom of the page, there is a small copyright notice: 'Copyright © 2017-2018, Strongu Technologies'.

Thus, the miner configuration is completed.

You can find this miner in the worker list of the pool in 5 minutes.

Click “Minus Status” in the header to view the **miner status**.

### ***Currency change***

*The pool configuration parameters will be saved after the first setting. Then you can change the current as follows:*

- 1. Click “Cryptocurrencies” in the upper right corner and select the currency in the drop-down menu.*
- 2. Verify the pool parameters displayed.*
- 3. Click “Save&Apply” in the lower right corner. The miner will run with new currency parameters.*

## **Status inspection**

The StrongU miner monitor provide the following data:

### 6. Summary

Operating time/real-time hash/average hash/number of blocks identified/number of local tasks/number of completed shares/cumulative difficulty/maximum difficulty/speed of fan 1/speed of fan 2, etc.

### 7. Pools

Pool address/miner name/pool status/number of obtained tasks/pool priority/number of accepted tasks/number of rejected tasks/number of abandoned tasks/number of overdue tasks/previous difficulty/completion time of previous task, etc.

### 8. StuMiner

Hash board number/number of acceptances/number of rejections/operating frequency/number of errors/status/average hash/temperature, etc.



Miner Status

Miner Configuration

NetWork

Summary

Elapsed	GHS(rt)	GHS(avg)	FoundBlocks	LocalWork	Utility	Work Utility	FAN1(Speed(rr/min))	FAN2(Speed(rr/min))
02d4m20s	424.509	443.292	0	4.08	10579352	774.10	3000	3000

Devices

Chain	GHS(15m)	GHS(avg)	Frequency	Temp	ASIC#	Accepted	Rejected	Status
0	211.761	215.602	570	48.44	70	5713	10	Alive
2	225.426	227.69	570	51.94	70	6049	19	Alive





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