



LoveMiner

A1 User's Guide



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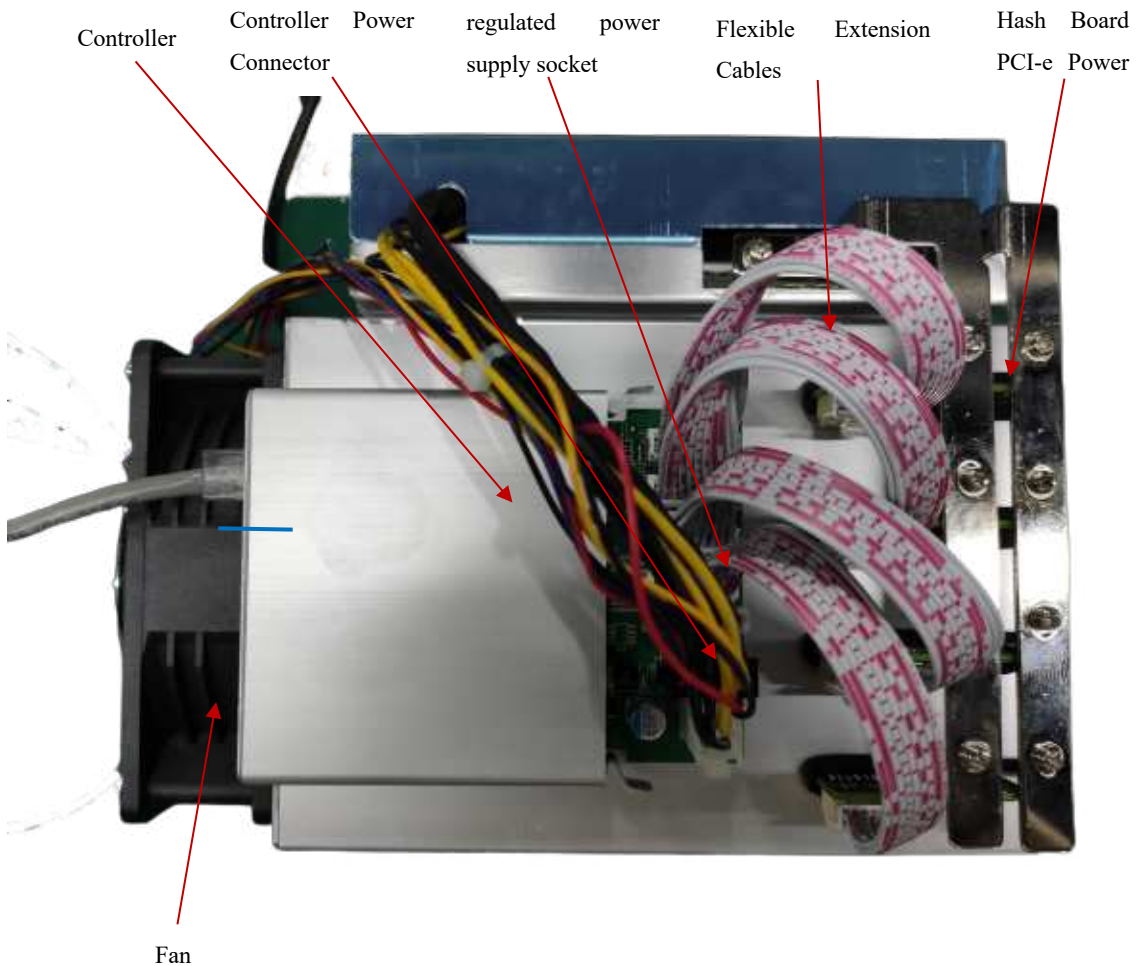


1. Product Overview

The miner A1 is first version in the Cheetah Miner series. It boasts an advanced ASIC chip using 10nm technology and complies with restrict and reliable design and manufacturing standards, completely surpassing the mainstream miners in the current market.

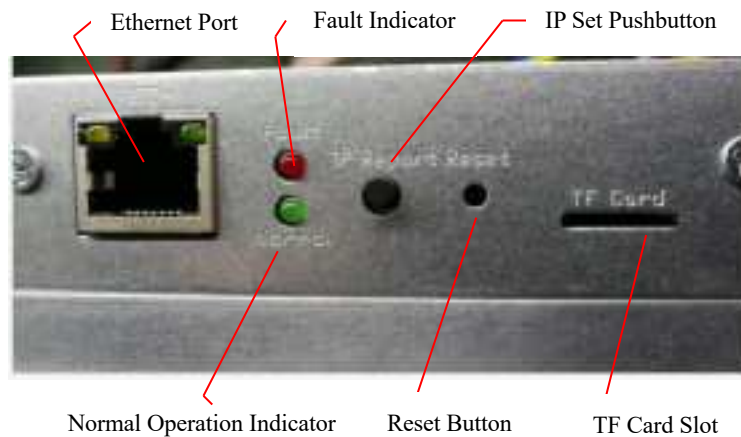
1.1 Miner A1's components

The miner A1's main components are shown in the following figures:





The miner A1's controller front panel are shown in the following figures:



Functional Description

- ETH port is used to connect the Ethernet cable.
- The red and green lights indicate the operation status of the miner. When the green light twinkles, it indicates OK; when the red light keeps on, it indicates fault.
- Press and hold IP Report button more than 2 seconds to get the IP address of the miner.
- Press and hold Reset button more than 3 seconds to restore the default settings of the miner.



Warning

1. Do not touch the rotating fan blades in case of personal injury.
2. Standard A1 power supply is recommended to avoid damage to A1 Miner or any safety accident.
3. The maximum power consumption of A1 Miner is about 2250W. Please confirm whether your power socket meets the power requirements of the mining machine.
4. Do not spill water or other liquids onto A1 Miner, especially the non-shell parts.



1.2 Specifications

ASIC chip	A1-1001-32core		
Hash rate	24T±5%		
Total quantity of chips	288PCS	Hash rate of a chip	86.7GH/s
Energy efficiency of a chip	0.09J/GH	Power consumption of a chip	7.5W/0.405V
Wall outlet power consumption	2100W±7%	Rated voltage	14.5~15.7V (Hash Board)、12V (Controller Board)
Operating ambient temp.	0°C~40°C (32°F~104°F)	Operating ambient humidity	5%RH~95%RH, non-condensation
Network linking	10/100/1000MBase-T	Dimensions(L×W×H)	(L)226mm*(W)180mm*(H)230mm
Noise	65dB	Net weight	4.5Kg

2. Starting Your Miner

2.1 Preparatory Work

Prepare a network cable, a Miner A1, a power supply unit, an AC power cord and a computer.

2.2 Connecting the Power Supply

Ten PCI-e connectors are located at the top of the Miner A1 for connecting the PSU. Nine PCI-e connectors are for the hash boards and each hash board has a set of three PCI-e connectors. One PCI-e connector located on the controller is for the controller. (See figure 1 in part 1.1)

To connect the power supply:

- 1) Connect PSU power cable connectors to each of the eight PCI-e connectors on the top of the miner and the PCI-e connector on the controller.
- 2) Connect the network cable to the ETH port.
- 3) Check whether the flexible extension cables and the fan connection cable and regulated power supply socket on the top of the miner are connected properly.
- 4) After all cables have been connected correctly, connect the AC power cord to the power



outlet.

After connecting the power supply, please check whether the miner operates as follows:

- 1) the front and rear fans operate normally;
- 2) the green light on the controller twinkles;
- 3) the green light on the ETH port keeps on and the orange one twinkles;
- 4) the blue lights on the three sets of hash board PCI-e connectors keep on.

If the miner runs normally, you can move to the next step. If not, please troubleshoot the miner.

3. Setting Up Your Miner

- 1) Go to this site: <https://pan.baidu.com/s/18urvdKjU5zRioqliYFdnKA> password: x69c
- 2) Download the file: IP-Reporter.rar
- 3) Extract the file.
- 4) Install JAVA run time environment (if it is installed, skip this step): <https://pan.baidu.com/s/1AmNTJ5hmUSUSs85jiLWQ2g> password: gsif
- 5) Run the file: IP-Reporter.exe
- 6) Press the **IP Set** button for more than three seconds and then the IP address will be displayed in the IP-Reporter interface.



**Statement**

- The file IP Reporter.zip is supported by Microsoft Windows only.
- The default DHCP network protocol distributes IP addresses automatically.
- The computer should be connected to the same LAN as the miner.
- If the IP report function is broken, maybe you should turn off firewall.

- 7) In your web browser, enter the IP address provided and proceed to login using the username “root” and password “root”.





In the **Network Setting** of Settings section, you can assign a Static IP address (optional).

8) **Setting up the pool.** Click the Pool Setting in Settings section to set the options. Take the Viabtc as an example:

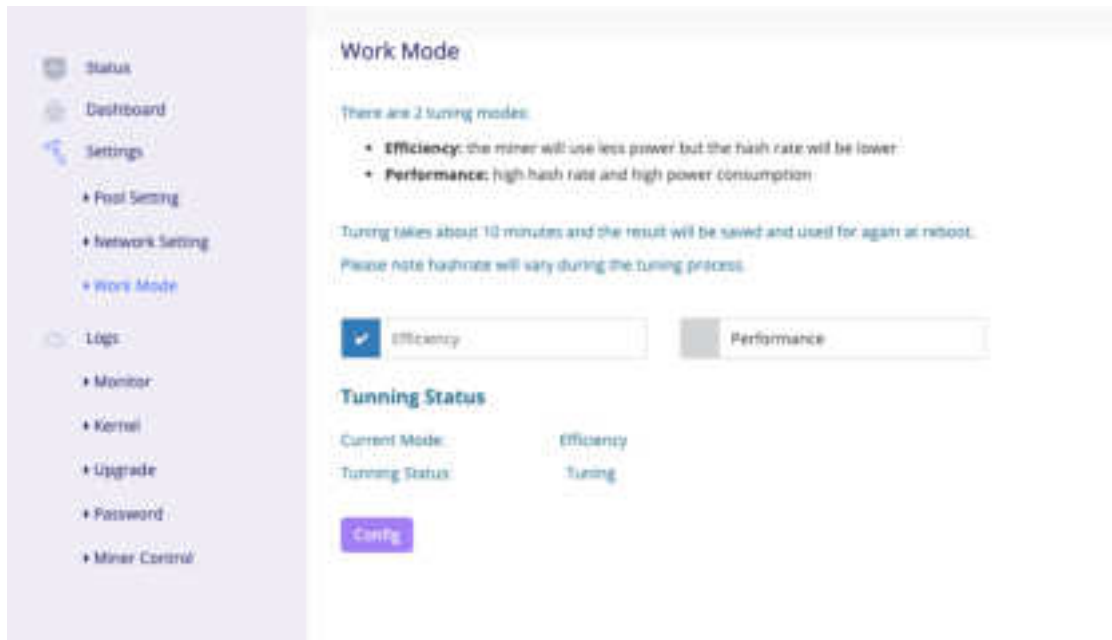
- ♦ Pool URL: stratum+tcp://btc.viabtc.com
- ♦ Port: 443 / 25 / 3333
- ♦ Worker: set up according to the sub-account you create on the pool
- ♦ Password: arbitrary password

After finishing the three settings, click Apply button.

**Statement**

- The Miner **A1** only supports the mining of pools using ASIC BOOST technology.
It cannot support all kinds of pools.
- The pool URL should use the node address where the miner is placed.

- 9) In the **Work Mode** of Settings section, you can set up the work mode of the miner between Efficiency and Performance.



After finishing the three settings, click Config button.

4. Monitoring Your Miner

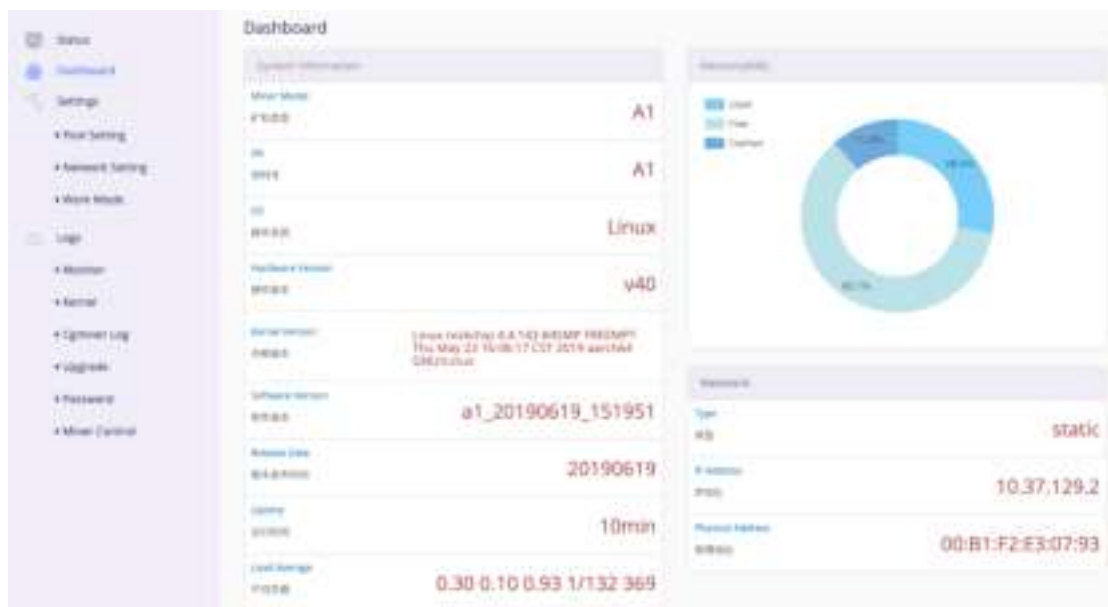
- 1) Click **Miner Status**.
- 2) Monitor your miner through the followings:
 - ♦ Real-time hash rate: it shows the real-time hash rate of the miner in one minute.
 - Average hash rate: it shows the average value of hash rate produced by the operating miner.
 - ♦ Working hour: it shows the uptime of the miner.
 - ♦ Fan: it respectively shows the rotating speeds of the front and rear fans as well as the duty cycle.
 - ♦ Curve graph: it shows the hash rate fluctuation of corresponding hash board from the moment it starts to work to the moment you check it.



5. Administering Your Miner

- 1) Check your software version in **Dashboard** section.

In the example below, the miner is using software version: A1_20190619_151951





2) Upgrade your firmware

In **Upgrade** of Logs section, select a **.img** or **.zip** formatted file and then click **Upgrade** button.



Statement

- When the upgrade is complete, the miner system will reboot. Therefore, you need to refresh the interface to log in again.
- The Monitor and Kernel in Logs section are designed for technicians to troubleshoot.
- Make sure that the miner remains powered during the upgrade process.

3) Modifying your password

In **Password** of Logs section, input your current password and new password and then click **Apply** button to modify your password.



The screenshot shows the 'Password' settings page. On the left is a sidebar menu with options: Status, Dashboard, Settings (expanded), Pool Setting, Network Setting, Work Mode, Logs, Monitor, Kernel, Upgrade, Password (highlighted), and Miner Control. The main content area is titled 'Password' and contains three input fields: 'Current Password' (with placeholder text 'Current Password'), 'New Password' (with placeholder text 'New Password'), and 'Confirm New Password' (with placeholder text 'New Password'). Below these fields is a purple 'Update' button.

4) Reboot your miner

In **Miner Control** of Logs section, click Reboot button and Confirm button, the miner will reboot immediately.

The screenshot shows the 'Miner Control' page. The sidebar menu is identical to the previous screenshot, with 'Miner Control' highlighted. The main content area is titled 'Miner Control' and contains a 'Reboot' button. Below the button is a text box with the message: 'When you click on "Reboot" button below, the machine will start rebooting. You will need to wait several minutes for the system gets back.' Below the text box is a purple 'Reboot' button.



Statement

In reboot process, the Miner Console is unavailable. After the reboot is complete, you can log in again.