BITMAIN

S4+ Server Manual

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1 Overview

Bitmain is introducing the newest server: the S4+ server. More powerful and efficient than its predecessor, the S4+ packs quite a punch. It uses the state of the art BM1382 chip powered by ultra-low power 28nm technology, with 2570Gh/s hash rate. S4+ will be shipped out with built-in PSU and it's tested and configured prior to shipping to make it easier for customers to set up.

Please note:

1. **The included PSU cannot be used in countries with a mains power voltage lower than 205V. The PSU will not start below this voltage.**
2. **Power line is not included, please find one with at least 10A in your local market.**

2 Features

Ideal Hash Rate (GH/s)	2570
Default chip clock (M)	200
Estimate power on wall (W)	1480
Estimate efficiency on wall (J/GH)	0.58
Dimensions (mm)	432 x 442 x 133
Weight (kg)	14.4

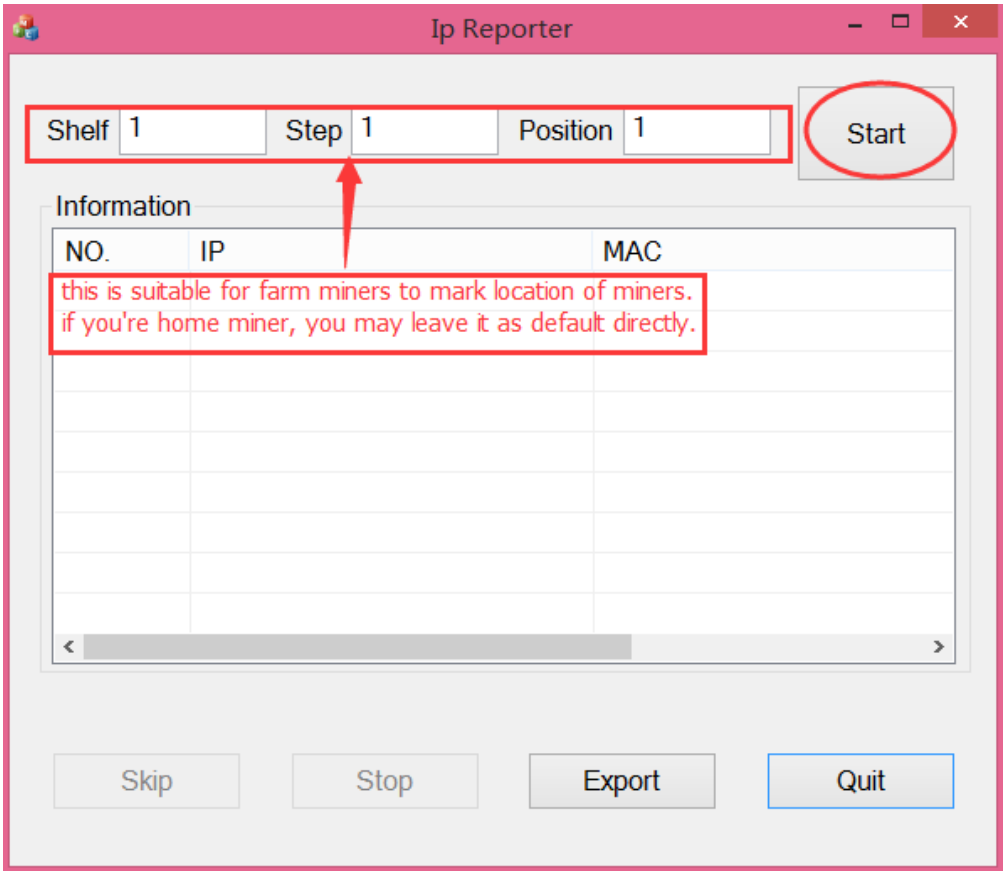
3 Connect to Server

Step 1. The default DHCP network protocol distributes IP addresses automatically. Please download IPReporter.zip , then please follow below steps to find out the IP of

the server.

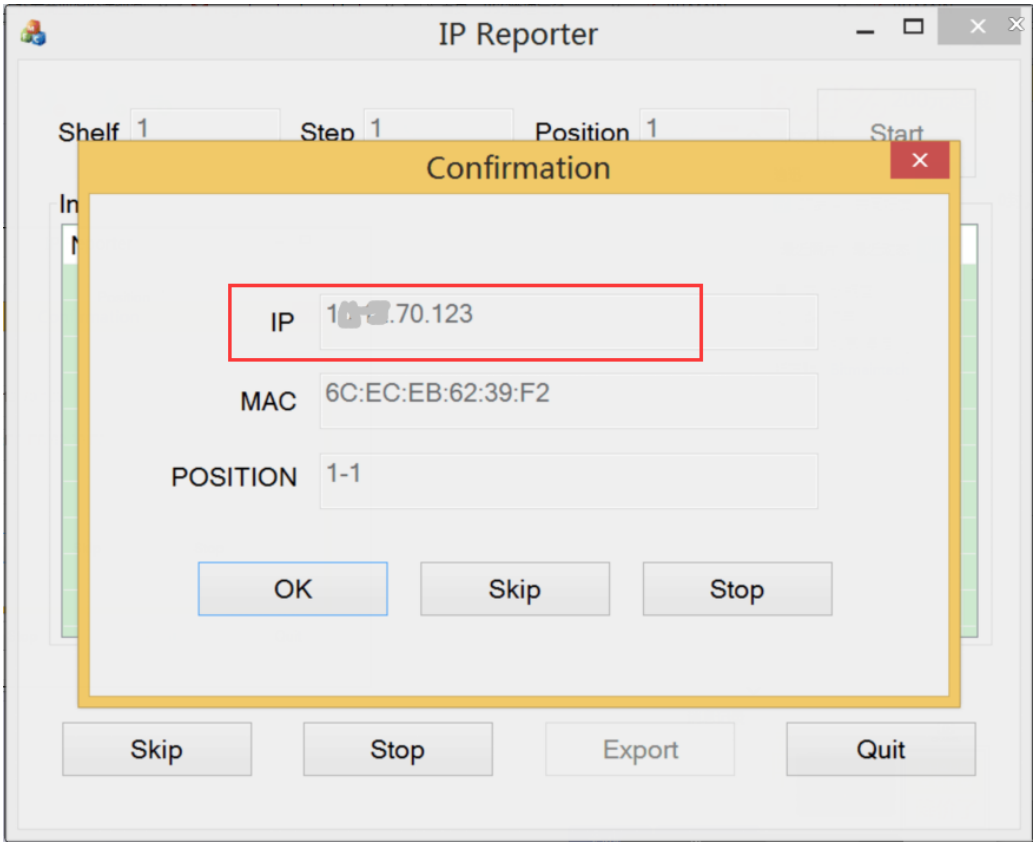
Note: when finding the IP address, the PC and server should be connected to the same router via Ethernet wire.

1. Extract the file and double click 'IPReporter.exe'.
   The 'Shelf, Step, Position' options are suitable for farm servers to mark the location of the servers. For home servers, it can be left as default.
   Then click 'Start'.



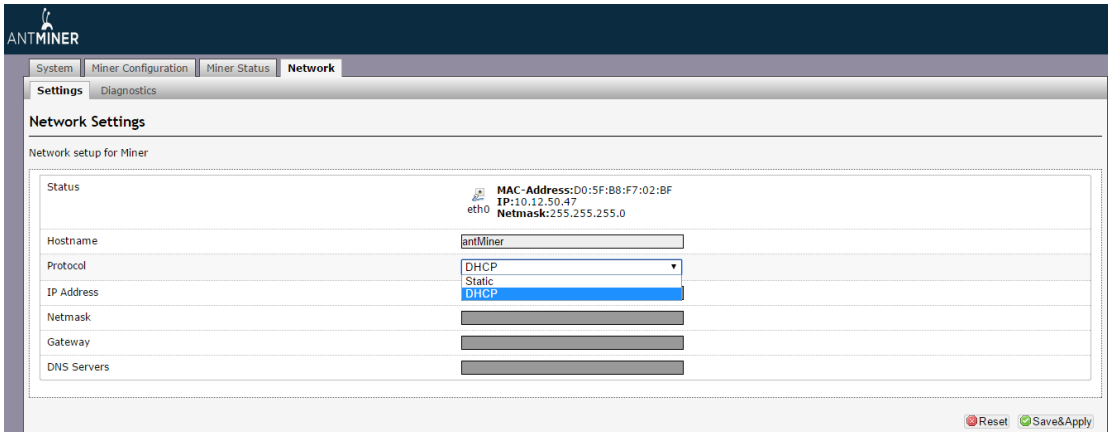
2. Press the raised IP Reporter button on right top corner of panel, next to the green and red LED light, you'll hear a beep sound:

3. Check your PC, you'll see the IP address showing in the pop-up window.



Step 2. Enter the IP address provided into your WEB browser and proceed to login using 'root' for both the username and password.

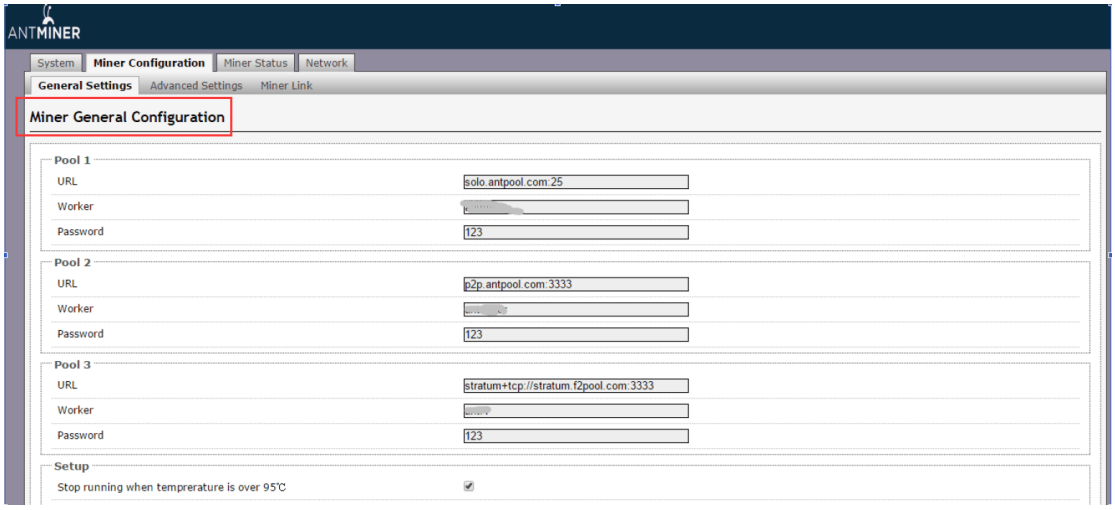
In the 'Network' section, you can assign a 'Static' IP address if you like. Click 'Save&Apply' after modifying it.



4 Server Configuration

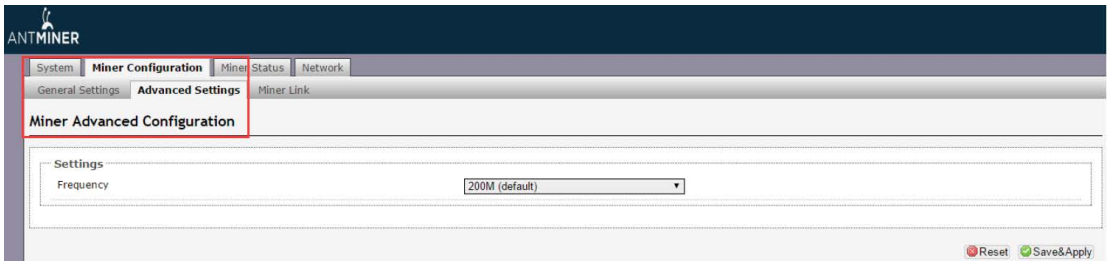
4.1 Pool Setting

You can configure your server through General Settings marked below.
Pool URL- Enter the URL of your desired pool in this column.
Worker- This is your worker ID on the selected pool.
Password- This is the password for your selected worker.
Comment:
4.1.1 The S4+ server can be set up with three mining pools, with decreasing priority from the first pool (pool 1) to the third pool (pool 3). **The pools with low priority will only be used if all higher priority pools have gone offline.**
4.1.2 When Stop running when temperature is over 95 ℃'is checked, the server will stop mining when the temperature exceeds 95 ℃ to protect the server. If it's unchecked, the server will still mine even in high temperature.
Click 'Save & Apply' to save and restart server.



4.2 Frequency Modification

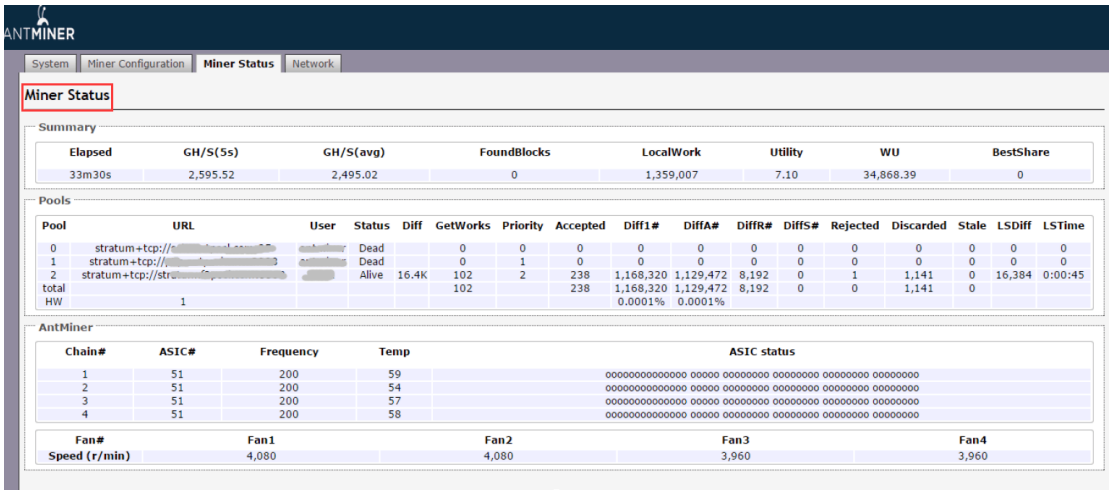
You are able to modify the frequency value through Advanced Settings marked below.
The default frequency for the S4+ server is 200M.



5 Server Status

You can check the operating status of your server on status page below.

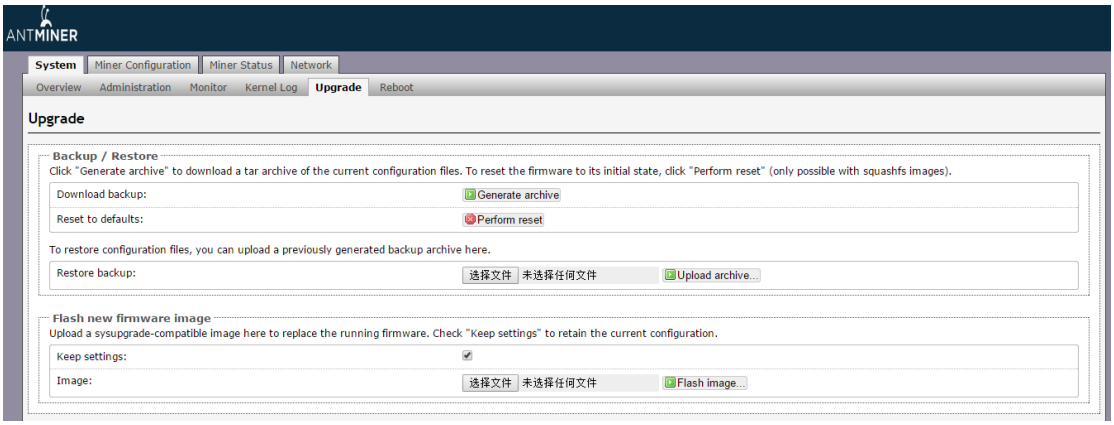
ASIC#: Number of chips detected in the chain
Frequency: ASIC frequency setting
Temp: Temperature, centigrade
ASIC status: o stands for OK, x stands for error.



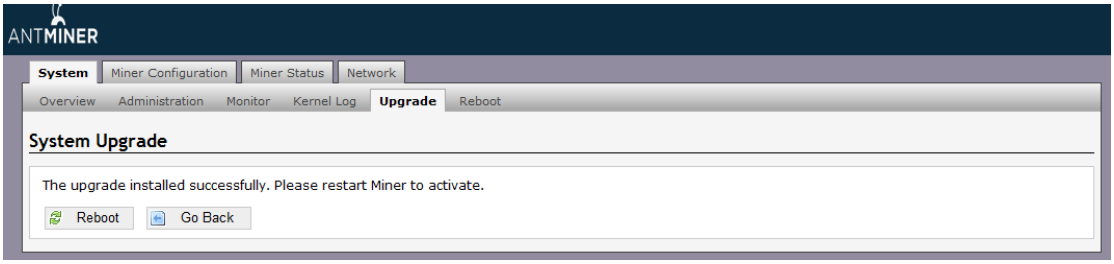
6 System Configuration and status

6.1 System Upgrading

You can upgrade The server's firmware on 'System->Upgrade' page.



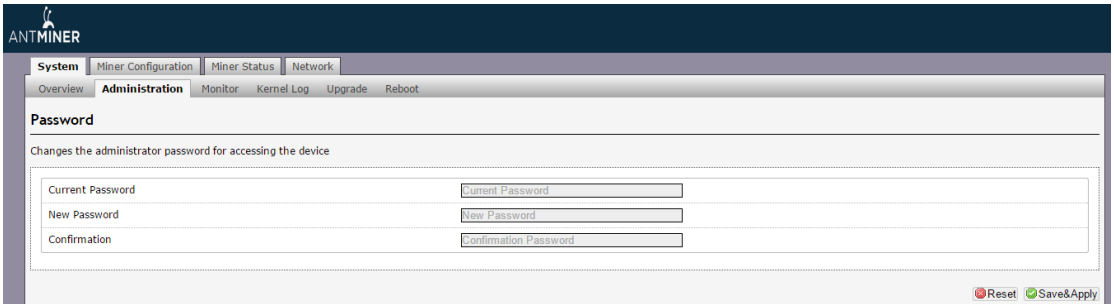
'Keep setting' is chosen by default and should be enabled if you want to keep your current settings. You should deselect this option if you are trying to return the server to default settings. Click 'Browse' button to choose upgrade file. Select the upgrade and click the 'Flash image...' button. The interface will display if the firmware can be upgraded and download the software. During the upgrade process, you need to **wait patiently, and must keep power on, otherwise, the server can only be fixed with returned to factory.** You will see below screenshot after upgrading successfully.



Clicking the 'Reboot' button will restart the server so it can load the new software. Clicking 'Go Back' will keep the server mining, before switching to the new software when it is restarted next time or power cycled.

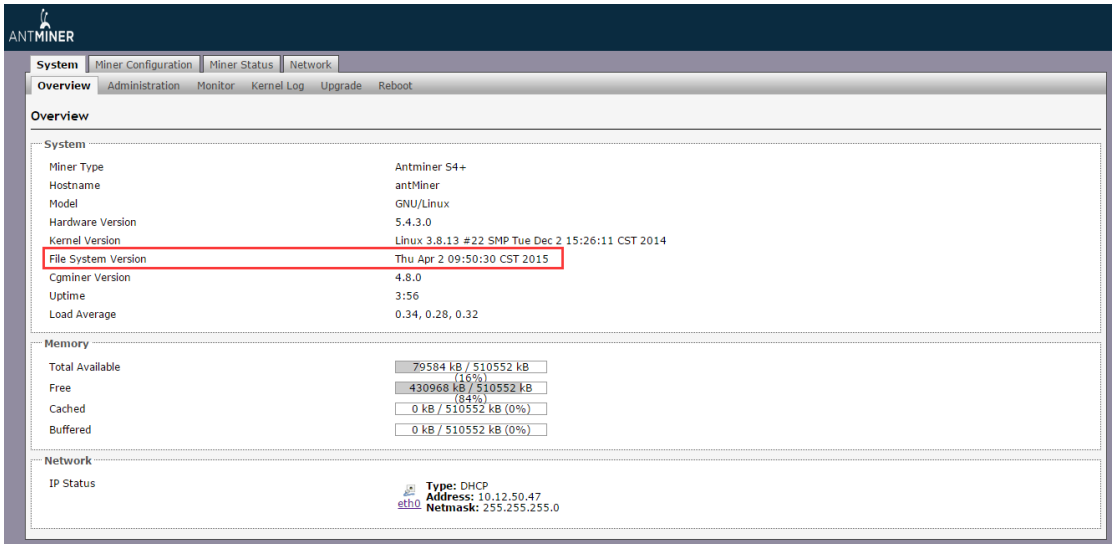
6.2 Password Modification

The server login password can be changed on the 'System->Administration' page. Once modified, press 'Save&Apply' to save the new password.



6.3 Software Version Checking

You can check which version of the software you are currently running on the 'System->Overview' page. 'File System version' displays the date of the firmware your server use. In the example below, the server is using 20150402 firmware.



6.4 Restore Initial Setting

There is a 'Reset' button on the left hand side of the IP Reporter button, press and hold the button for 5 seconds in order to restore to the default settings and reboot. The red LED will flash once every 15 seconds automatically if the reset is operated successfully.

Regulation:

FCC Notice (FOR FCC CERTIFIED MODELS):

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

EU WEEE: Disposal of Waste Equipment by Users in Private Household in the European Union

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handling it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where your purchased the product.

台湾 ROHS:

設備名稱：　　，型號：

單元	有害物质					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr+6)	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
外殼	○	○	○	○	○	○
電路板組件	—	○	○	○	○	○
其他線材	—	○	○	○	○	○

備考 1. "超出 0.1 wt %" 及 "超出 0.01 wt %" 係指限用物質之百分比含量超出百分比含量基準
值。
備考 2. "○" 係指該項限用物質之百分比含量未超出百分比含量基準值。
備考 3. "—" 係指該項限用物質為排除項目