BITMAIN CAYMAN

S5 Server Manual

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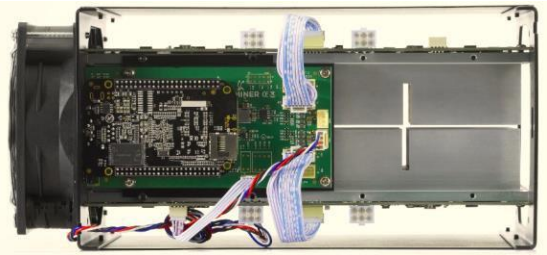
1 Overview

The S5 server is Bitmain's 5th generation of Bitcoin mining rig and uses the state-of-the-art BM1384 chip powered by ultra-low power 28nm technology. S5's are tested and configured prior to shipping to make it easier for customers to set up.



Please note:

1. You must prepare your own ATX Power Supply

2 Features

Ideal Hash Rate (GH/s)	1155
Default chip clock (M)	350
Input Voltage (V)	12.00 ~ 12.50
Typical Input Current (A)	45
Typical Input Power (W)	540
Estimate power on wall (W) -- assume AC/DC efficiency is 90%	590
Estimate efficiency on wall (W/GH)	0.51
Dimensions (mm)	298 x 137 x 155
Weight (kg)	3.5
Operating ambient temperature (°C)	0 ~ 35

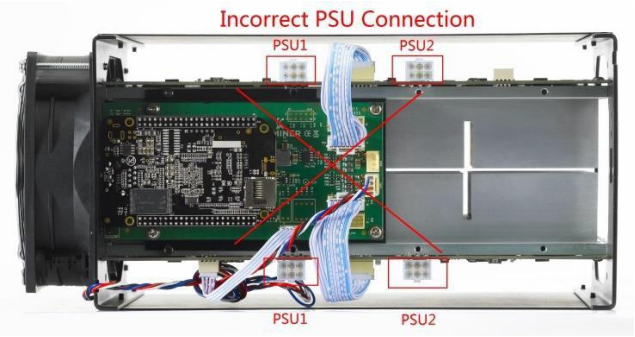
Notes: Input voltage should not be less than 12.00V, since it is based on serial power solution and there is no DC/DC inside the server. Higher input voltage will cause higher mining efficiency.

3 Power Supply

Each S5 server has four PCI-e connectors for +12V/15A DC **STABLE** input and all four are required. **Do not connect more than one PSU to the same hashing board to prevent possible damage and instability.** See below screenshot for the CORRECT and INCORRECT connection of the PCI-E connectors:

Correct connection:

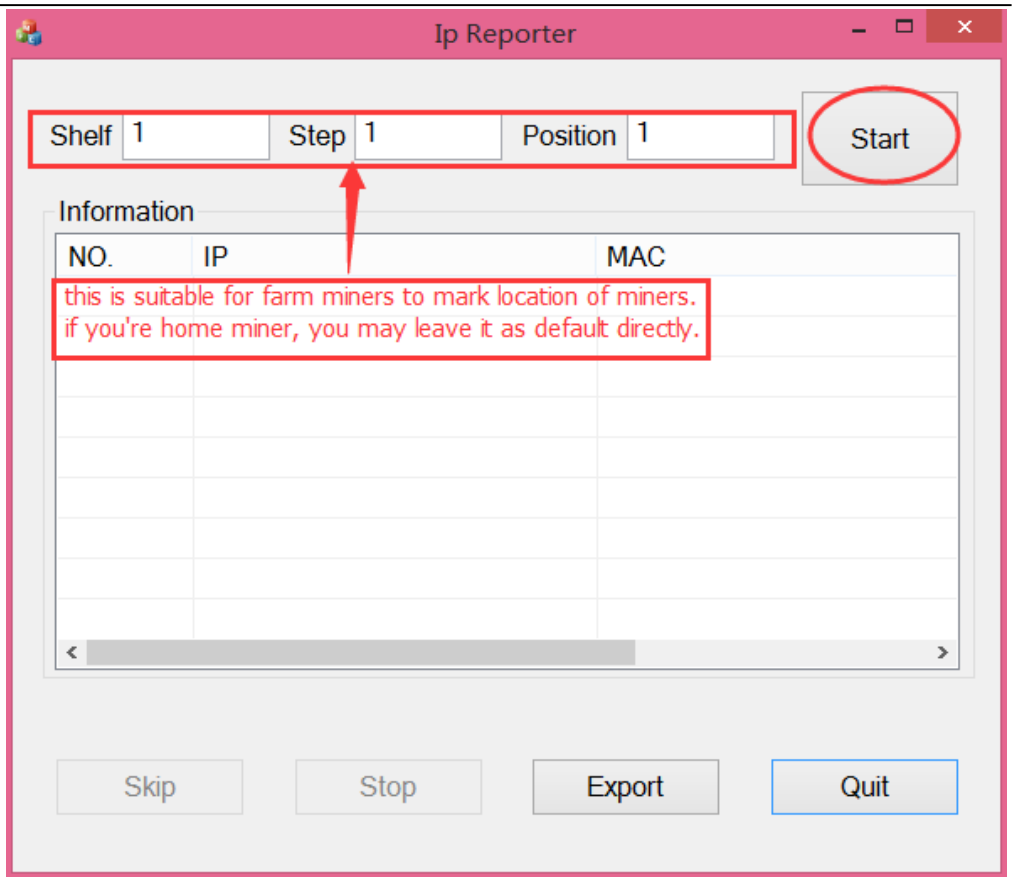
Incorrect connection:



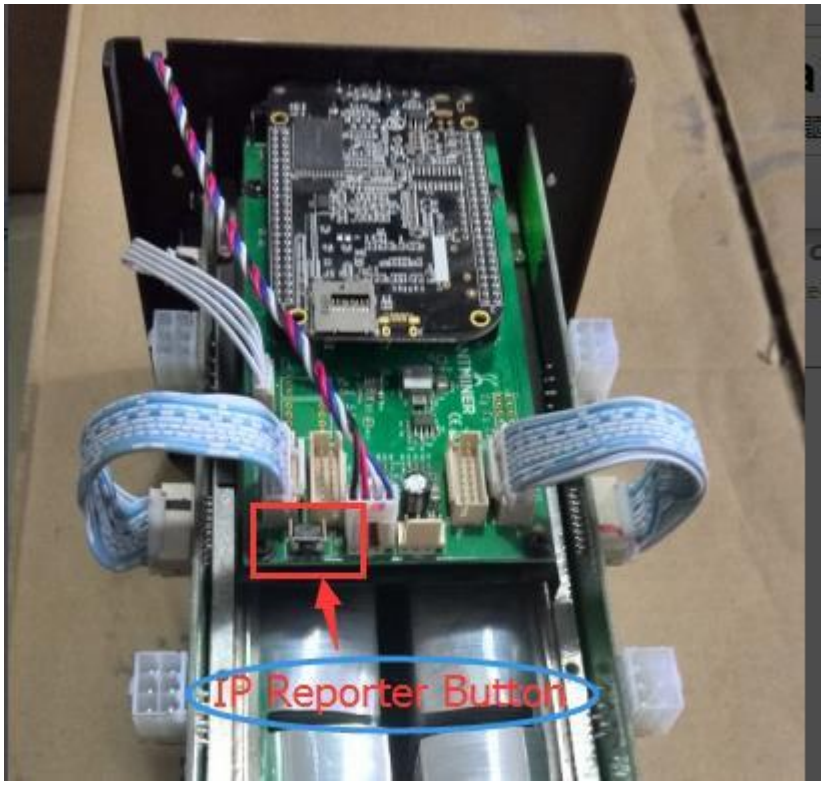
4 Connect to Server

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

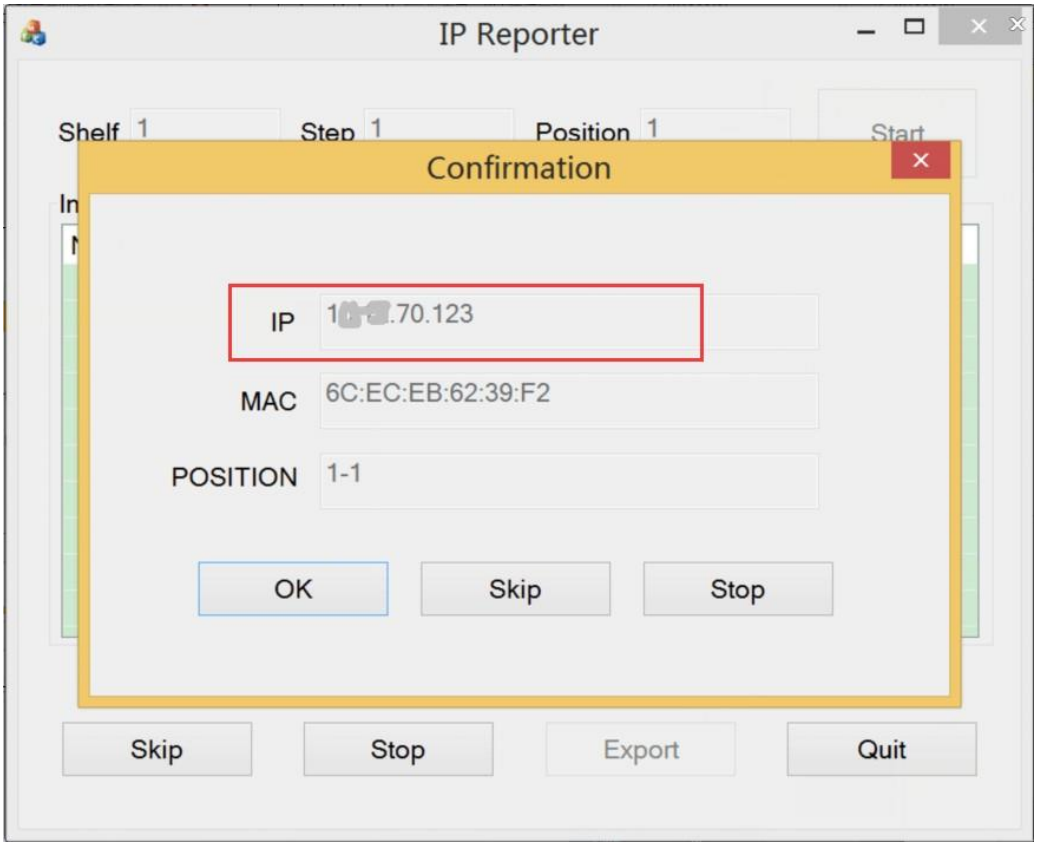
1. Extract the file and double click 'IPReporter.exe'.
   The 'Shelf, Step, Position' options are suitable for farm servers to mark the location of the servers. For home servers, it can be left as default.
   Then click 'Start'.



2. Press the IP Reporter button on IO board and you'll hear a beep sound:

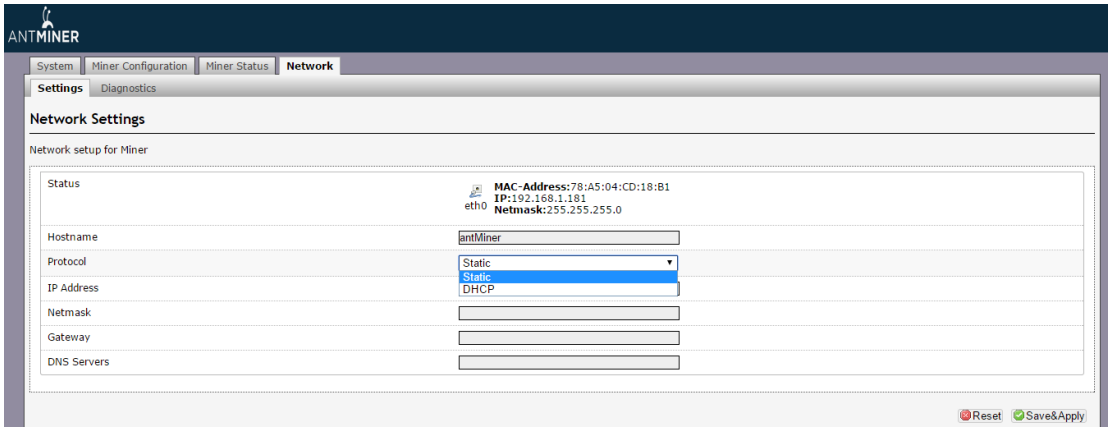


3. Check your PC, you'll see the IP address showing in the pop-up window.



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.



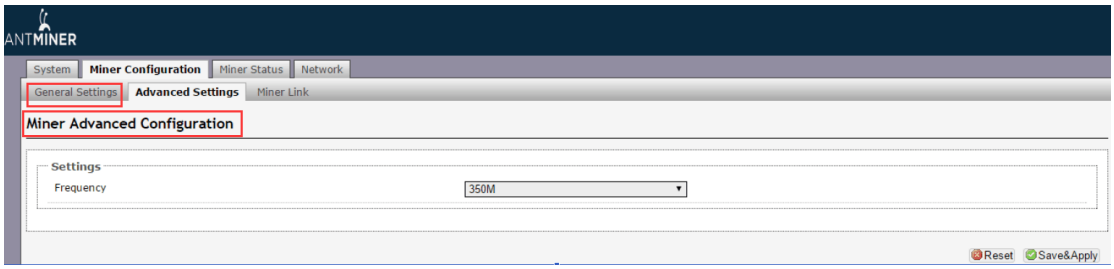
5 Server Configuration

5.1 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 S5 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 'Beeper ringing' is checked, a beeper will ring when the server stops mining, otherwise it won't ring even if the server stops mining.
4.1.3 When 'Stop running when temperature is over 80℃' is checked, the server will stop mining when the temperature exceeds 80℃ 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.

5.2 Frequency Modification

You are able to modify the frequency value through Advanced Settings marked below. The default frequency for the S5 server is 350M.

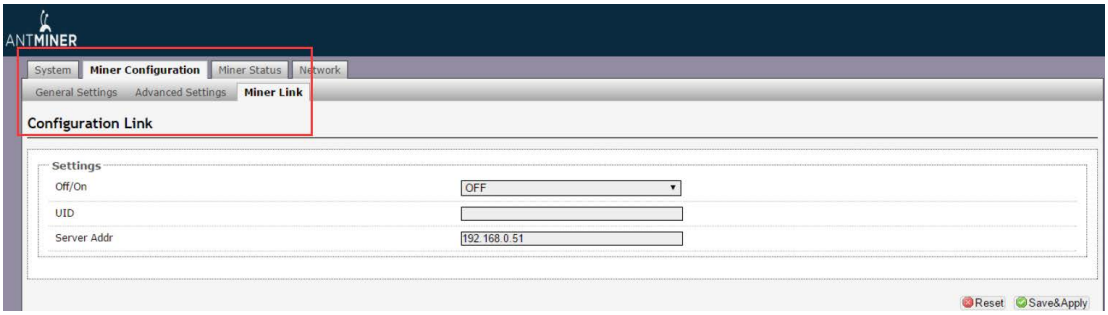


5.3 Server Link Connection

4.3.1 Go to ' Configuration' tab, and the 'Link' tab in order to configure the relevant settings.
4.3.2 You can enable or disable 'Link' in the Off/On drop-down list provided. You can fill in your Bitmain username(your passport email registered on Bitmain platform) in the UID blank. (Register here if you don' have an account yet: http://passport.bitmain.com)
4.3.3 After filling in your Bitmain username and enabling 'Link', click 'Save&Apply' tab. The

software will take approximately 10 seconds to connect to the server, and then the client software continues to run after settings are saved. If either the Off/On is selected to 'OFF' or the UID is left blank, 'Link' will remain disabled.

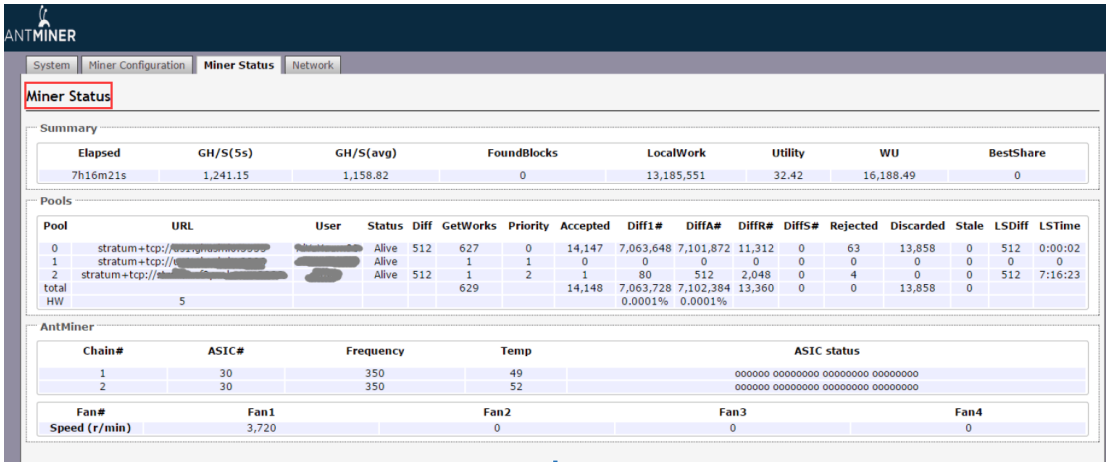
4.3.4 Once 'Link' is enabled, the 'Addr' will become fixed and cannot be updated by customers. This refers to Bitmain's monitoring server address.



6 Server Status

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

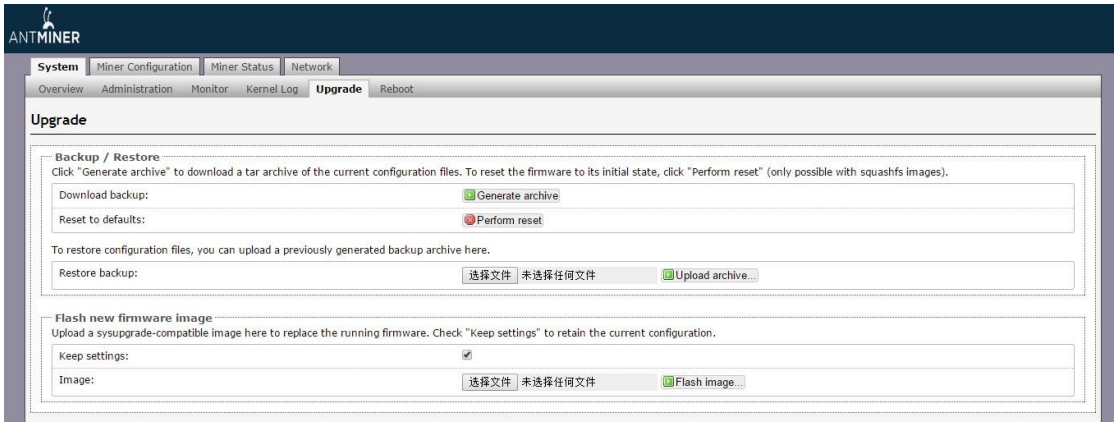
ASIC#: Number of chips detected in the chain
Frequency: ASIC frequency setting
Temp: Temperature, centigrade
ASIC status: o stands for OK, x stands for error.



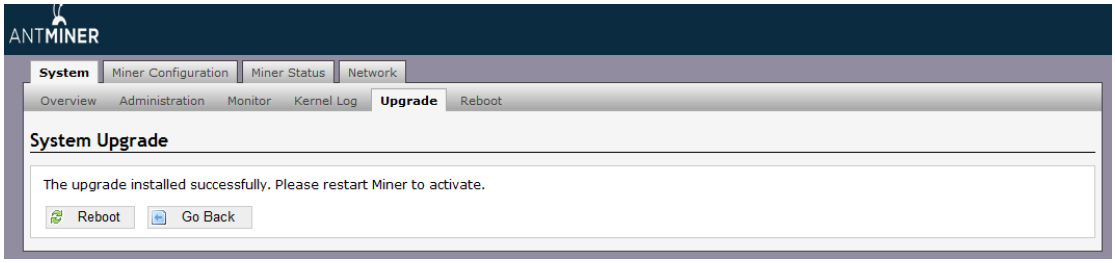
7 System Configuration and status

7.1 System Upgrading

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



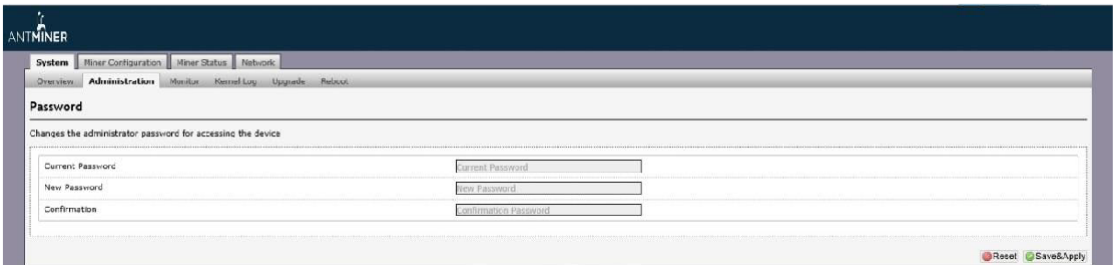
'Keep setting' is chosen by default and should be enabled if you want to keep your current settings. You should deselect this option if you are trying to return the server to default settings. Click 'Browse' button to choose upgrade file. Select the upgrade and click the 'Flash image...' button. The 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.

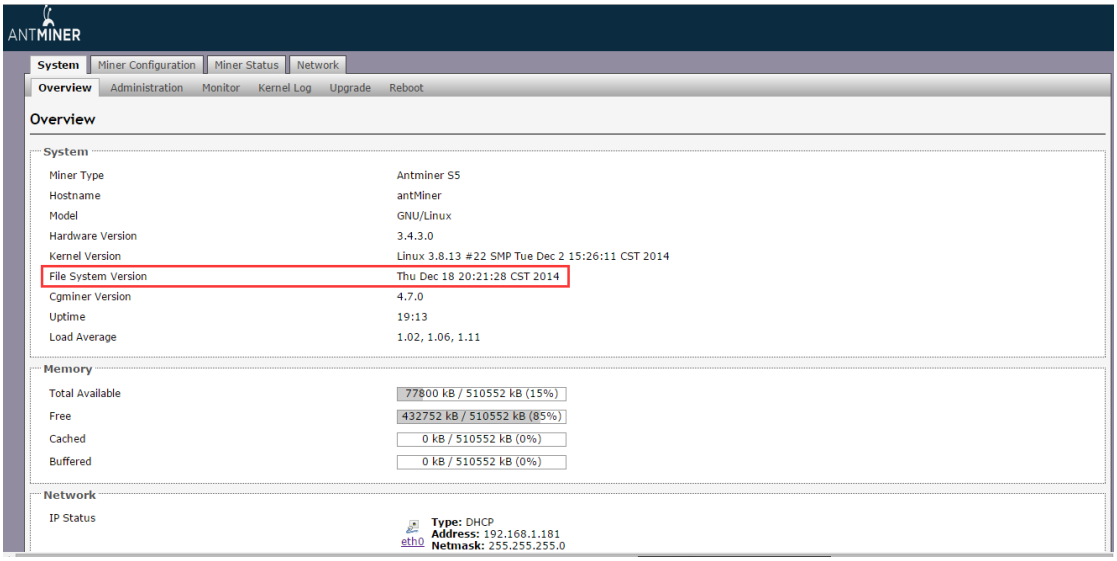
7.2 Password Modification

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



7.3 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 20141218 firmware.



7.4 Restore Initial Setting

There is a 'Reset' button on the right hand side of the Ethernet port, next to the green and red LED light, 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