

BITMAIN

S2 Server Manual

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1 Overview

S2 server is a chassis style 1TH/s bitcoin server with PSU. It has been assembled before Fab out.



1000W PSU: when you set up S2 server, only need to connect to AC 220V/50Hz or 110V/60Hz.

LCD screen: here show IP Address, Hashrate, the highest temperature. There are also Status LEDS, Reset button and Beeper on the screen.

All 5 fans for cooling, 4 bigger fans, one small fan.

Casing size: 442mm*432mm*177mm, which is suitable to install in the server cabinet.

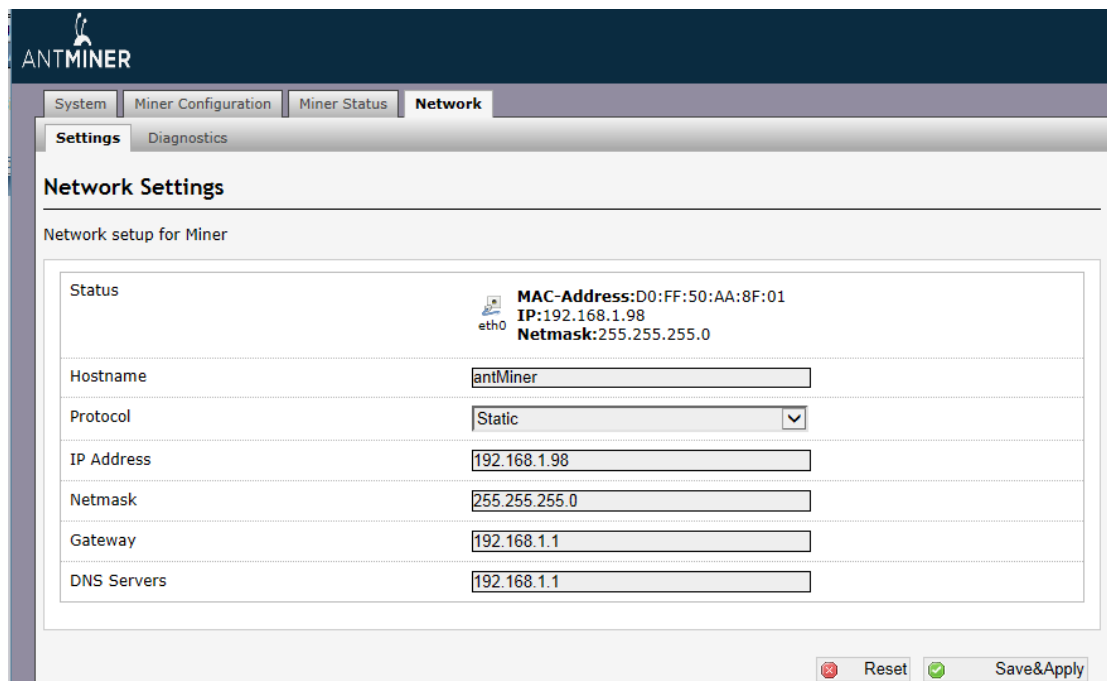
2 Connect to Server

Step 1. Manually set up your PC's IP address in the network segment same as the server's IP address. Default IP address of S2 is 192.168.1.99 by default, set up PC's address to 192.168.1.x. Step 2. Connect server and your PC via network cable.

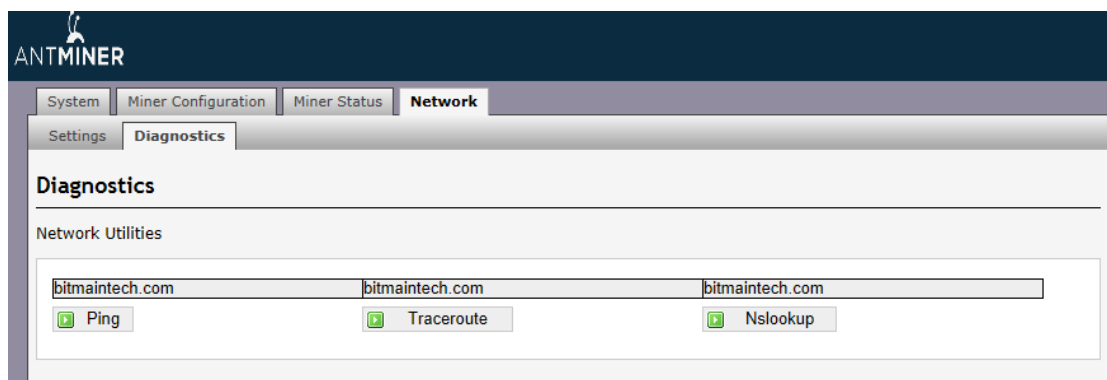
Step3. Enter server's IP address into your web browser, then login management interface, both of username and password is 'root' by default.

Through 'Network', you will be able to modify S2 server IP address, and choose 'Save and Apply' after modifying it.

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Through Diagnostics page, you can check your network connection.



3 Pool Setting

Through 'Status->Configuration', you will be able to configure your server.

Pool URL-In this field you should enter the URL of your desired pool.

Worker- This is your worker ID on the selected pool.

Password- This is the password for your selected worker.

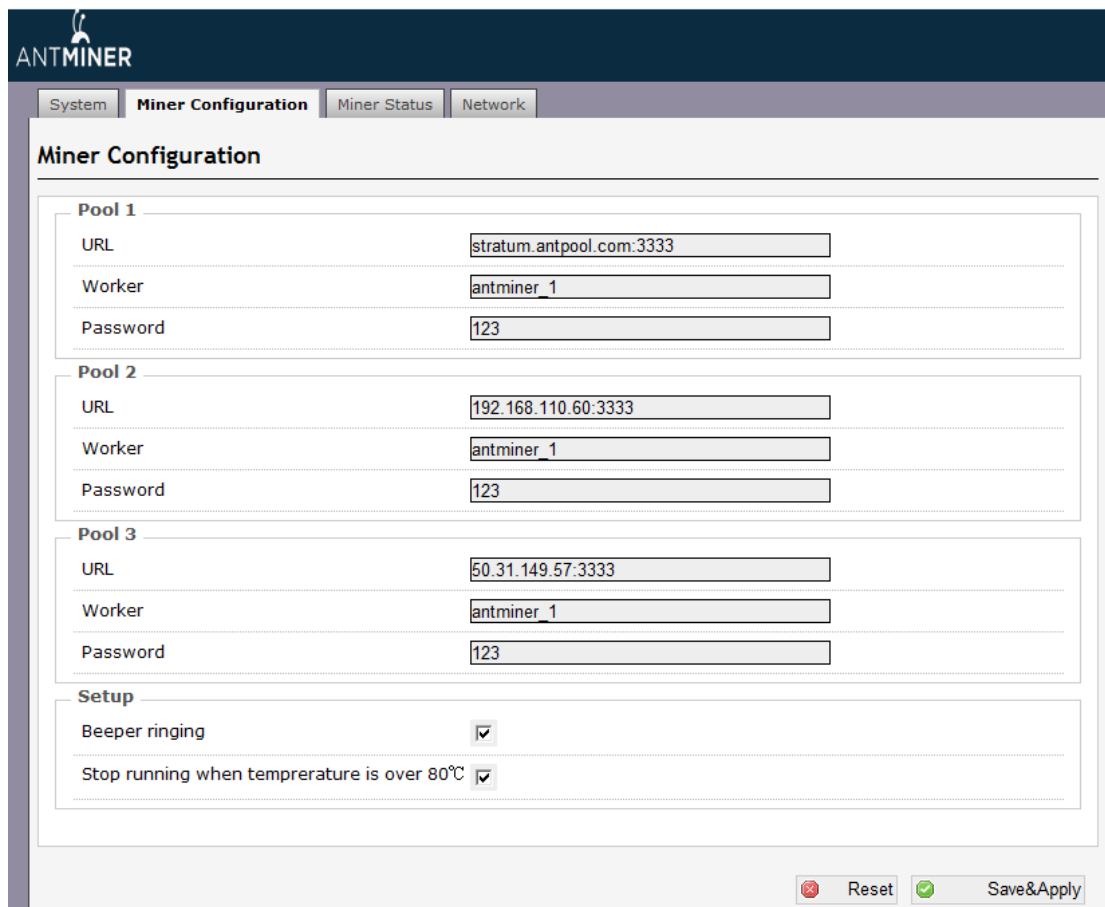
Comment:

2.3.1 The server can setup three mining pools, the priority decreases from first pool (pool 1) to third pool (pool 3). **The low priority pool will start to work, only when the high priority pool encounter fault.**

2.3.2 When 'Beeper ringing' is chosen, beeper is to alert once the server stops running, otherwise beeper won't alert, even if the server stops running.

2.3.3 When 'Stop running when temperature is over 80°C' is chosen, the server won't run if the temperature is over 80°C' to protect the server. If it's not chosen, the server will continue running even in high temperature.

Click 'Save & Apply' to save and restart server.



The screenshot shows the ANTMINER web interface for Miner Configuration. It features a navigation bar with tabs for System, Miner Configuration (selected), Miner Status, and Network. The main content area is titled 'Miner Configuration' and contains three sections for Pool 1, Pool 2, and Pool 3. Each pool section has input fields for URL, Worker, and Password. Below these is a 'Setup' section with two checked checkboxes: 'Beeper ringing' and 'Stop running when temperature is over 80°C'. At the bottom right, there are 'Reset' and 'Save&Apply' buttons.

Pool	URL	Worker	Password
Pool 1	stratum.antpool.com:3333	antminer_1	123
Pool 2	192.168.110.60:3333	antminer_1	123
Pool 3	50.31.149.57:3333	antminer_1	123

Setup

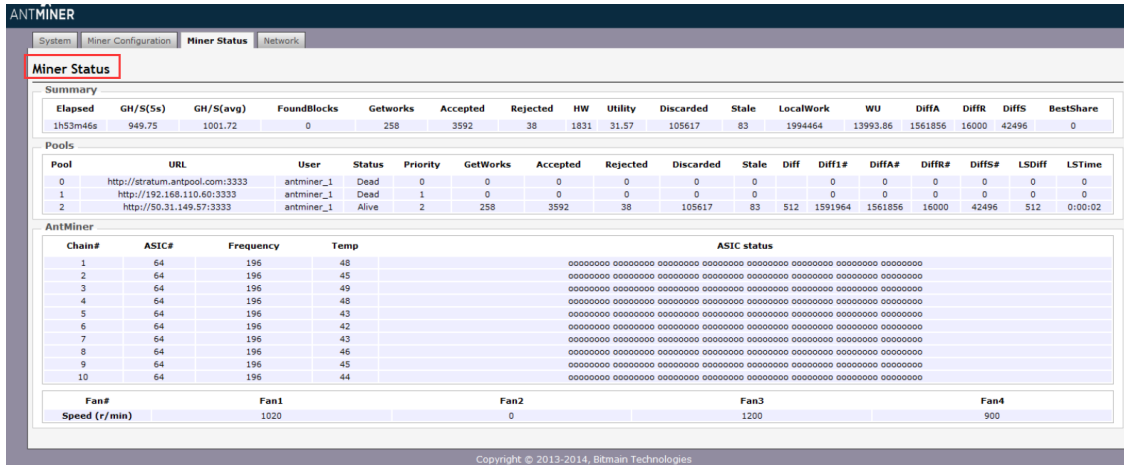
- Beeper ringing
- Stop running when temperature is over 80°C

Buttons:

4 Server Status

4.1 Server Status web page

Click the status marked below, you will be able to check your server running status.



The screenshot shows the ANTMINER web interface with the 'Miner Status' tab selected. The 'Miner Status' header is highlighted with a red box. The page displays several tables:

Elapsed	GH/S(5s)	GH/S(avg)	FoundBlocks	Getworks	Accepted	Rejected	HW	Utility	Discarded	Stale	LocalWork	WU	DiffA	DiffR	Diffs	BestShare
1h53m46s	949.75	1001.72	0	258	3592	38	1831	31.57	105617	83	1994464	13993.86	1561856	16000	42496	0

Pool	URL	User	Status	Priority	GetWorks	Accepted	Rejected	Discarded	Stale	Diff	Diff1#	DiffA#	DiffR#	Diffs#	LSDiff	LSTime
0	http://stratum-antpool.com:3333	antminer_1	Dead	1	0	0	0	0	0	0	0	0	0	0	0	0
1	http://192.168.110.60:3333	antminer_1	Dead	1	0	0	0	0	0	0	0	0	0	0	0	0
2	http://50.31.149.57:3333	antminer_1	Alive	2	258	3592	38	105617	83	512	1591964	1561856	16000	42496	512	0:00:02

Chain#	ASIC#	Frequency	Temp	ASIC status
1	64	196	48	oo
2	64	196	45	oo
3	64	196	49	oo
4	64	196	43	oo
5	64	196	43	oo
6	64	196	42	oo
7	64	196	43	oo
8	64	196	46	oo
9	64	196	45	oo
10	64	196	44	oo

Fan#	Fan1	Fan2	Fan3	Fan4
Speed (r/min)	1020	0	1200	900

- ASIC#: ASIC number in the chain
- Frequency: ASIC setting frequency
- Temp: Temperature, centigrade
- ASIC status: o stands for OK, x stands for error.

4.2 LCD Screenshot



IP address: 192.168.1.98.

Hash rate: 1255.82 GH/s, average speed every one minute.

Temperature: the maximum value among all collected data.

4.3 LED and beep

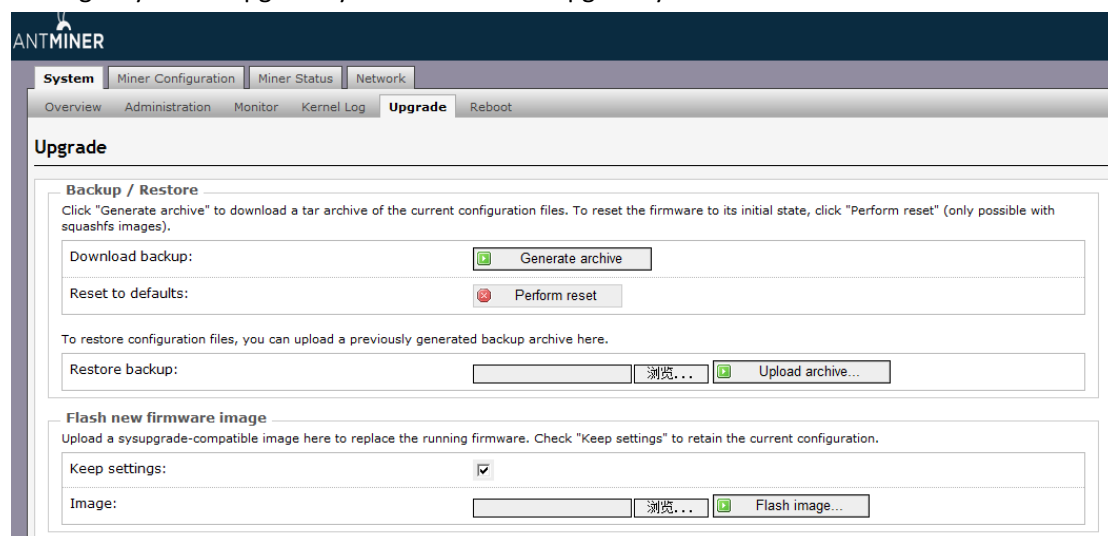
4.3.1 When the server is running well, green LED flashing with 1 second interval. If network is off for more than one minute, Green LED will be off and beeper rings.

4.3.2 Red LED is Fault alert, which keep off when server is running well. When the temperature is higher than 80 Degree Celsius and some fans are spinning up, red LED flashing with 1 second interval; when the temperature is higher than 80 Degree Celsius and all fans are not spinning up, red LED keep lighting and beeper rings.

5 System Configuration and Status

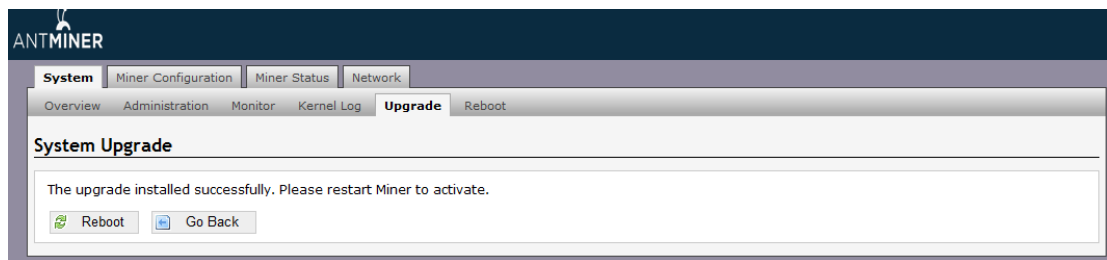
5.1 System Upgrading

Through 'System->Upgrade' you will be able to upgrade your server.



'Keep setting' is chosen by default, you should choose it if you hope to preserve the current settings. You should cancel this option if you hope to restore to initial settings.

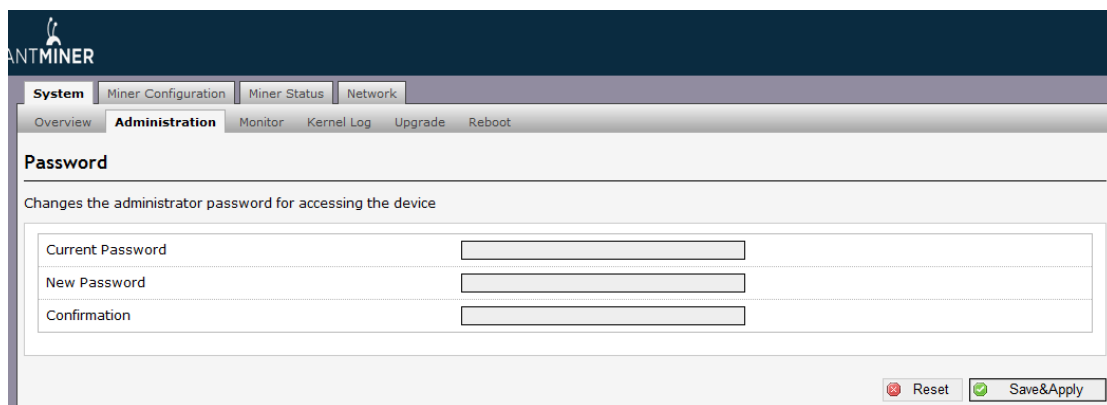
Click 'Browse' button to choose upgrade file. After choosing upgrade file, then click 'Flash image...' button, it will remind when upgrading software, start to download software after choosing upgrading software. During the upgrade process, you need to **wait patiently, and must keep power on, otherwise, the server should be shipped to factory to restore**. You will see bellow screenshot after upgrading successfully.



Choose 'Reboot' button, server will restart and run the new system. Choose 'Go Back', the server will continue running the old system, will run new system when power on next time.

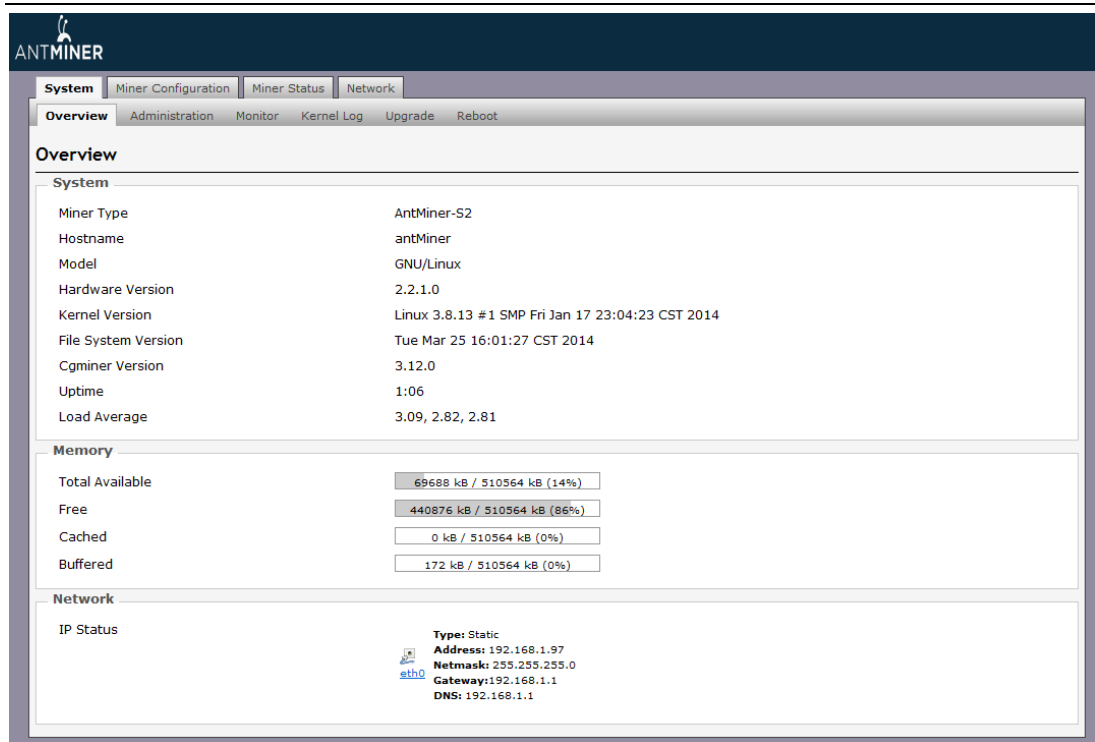
5.2 Password Modification

Through 'System->Administration', you will be able to modify the server login password, and choose 'Save' and 'Save and Apply' after modifying it.



5.3 Software Version Checking

Through 'System->Overview', you will be able to check the software version you used. After upgrading the software, to check if you are using the latest version of software via 'File System Version'.



The screenshot shows the AntMiner S2 web interface. At the top, there is a navigation bar with tabs for 'System', 'Miner Configuration', 'Miner Status', and 'Network'. Below this, there is a sub-navigation bar with 'Overview', 'Administration', 'Monitor', 'Kernel Log', 'Upgrade', and 'Reboot'. The main content area is titled 'Overview' and is divided into three sections: 'System', 'Memory', and 'Network'.

System

Miner Type	AntMiner-S2
Hostname	antMiner
Model	GNU/Linux
Hardware Version	2.2.1.0
Kernel Version	Linux 3.8.13 #1 SMP Fri Jan 17 23:04:23 CST 2014
File System Version	Tue Mar 25 16:01:27 CST 2014
Cgminer Version	3.12.0
Uptime	1:06
Load Average	3.09, 2.82, 2.81

Memory

Total Available	69688 kB / 510564 kB (14%)
Free	440876 kB / 510564 kB (86%)
Cached	0 kB / 510564 kB (0%)
Buffered	172 kB / 510564 kB (0%)

Network

IP Status

Type	Static
Address	192.168.1.97
Netmask	255.255.255.0
Gateway	192.168.1.1
DNS	192.168.1.1

5.4 Restore Initial Setting

Press the 'Reset' button on the left bottom of LCD screen and hold on for 3 seconds, red led flashing every one second/ 1S. Release 'Reset' button, the server will restore the initial setting and restart automatically.

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 handing 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 you purchased the product.

台灣 ROHS:

設備名稱: _____, 型號: _____						
單元	有害物質					
	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