BITMAIN



S9 Hydro Server Installation Guide

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1.0verview

1. Overview

The S9 Hydro server is Bitmain's newest water-cooled product. All S9 Hydro servers are tested and configured prior to shipping to ensure easy set up. This new-style DIY product needs to be assembled, additional radiations and accessories and power supply are necessary. Warranty is not available due to the damage caused by customer's self-removal of the S9 Hydro server.



Note:

1. You must provide your own ATX power supply.

2. The images shown here are indicative only. The actual product may differ.



1.0verview

1.1 S9 Hydro Components

The S9 Hydro server main components and controller front panel are shown in the following figure:





1.0verview

1.2 Specifications

roduct Glance Value			
Product model	duct model S9 Hydro-18.0T		
Hashrate, TH/s		18.00	
Power efficiency on wall @25°C, J/TH		96.00	
Adapted power supply model		APW5	
Adapted power supply, Watt / Volt	172	8W / 220V	
Detailed Characteristics		Value	
	Min	Тур	Max
Hashrate & Power			
Hashrate, TH/s		18.00	18.40
Power efficiency on wall @25°C, J/TH (1-1)	96.0		102.7
Power efficiency on wall @40°C, J/TH (1-2)	103.2		110.4
Power on wall, W (1-3)	1728		2031
Power Supply Input Range			
Power supply input voltage, V AC (2-1)	200	220	265
Power Supply input Frequency Range, Hz (2-2)	47	50	63
Power supply input current, A (2-3)		7.85	10.16
Power Supply Safety Protection			
Output Overcurrent Protection, A DC (3-1)	216		225
Low Voltage Input Protection, V AC	90		100
Hardware Configuration			
Quantity of hash chips	216		
Quantity of hash boards	4		
Networking connection mode	RJ45 ethernet 10/100M		м
Server Size (Length*Width*Height), mm(4-1)	360*125*190		
Net weight, kg (4-2)		5.15	
Noise, dBA @25° C (4-3)		45	58
Environment Requirements			
Water inlet temperature, °C	15 (5-1)		55
Water flow, L/min	5 (5-2)		15
Flow system pressure, kPa		50	300
Operation temperature, °C	0	25	40
Storage temperature, °C	-40	25	85
Operation humidity, RH	5%		95%



1.Overview

- (1-1) Server test in 25°C temperature chamber. Heat exchanger and water pump power are included.
- (1-2) Server test in 40°C temperature chamber. Heat exchanger and water pump power are included.
- (1-3) Typ condition: 25°C, min J/TH, typical Hashrate Max condition: 40°C, max J/TH, max Hashrate
- (2-1) Caution: Supply lower than 200V will cause APW5 protection or damageDue to APW output power will be reduced by 50% under 200V input, and it is not enough for server
- (2-2) 220V AC Power Supply Frequency
- (2-3) Typ condition: Min Power on wall, 220V AC supply Max condition: Max Power on wall, 180V AC supply
- (3-1) During 220V AC input
- (4-1) Without APW5 & Heat exchanger and water pump, including the bend pipes . APW5 L*W*H(mm) = 260*125*86
- (4-2) Without APW5 & Heat exchanger, pump, including the bend pipes, APW5 net weight is 2.5kg
- (4-3) Typ condition: 25°C, typical J/TH, typical Hashrate Max condition: 40°C, max J/TH, max Hashrate
- (5-1) Temperature should be no less than 15°C, and at least 3°C higher than dew point
- (5-2) The external water source can appropriately reduce the flow according to the actual water temperature. Under this condition, the recommendation is no less than 2L/min.



2. Connecting the Power Supply

2. Connecting the Power Supply



Note:

APW5 is recommended for your S9 Hydro server which has the advantage of low noise. Please refer to the power supply parameters below when using power supplies purchased by your own to ensure a normal operation of your server.

Power Supply Specifications (for reference only)

● 12V fixed voltage output adopts PCIE output terminal.

The PCIE output terminal diagram is shown below:





The output cable consists of two colors:

the 12V positive terminal is yellow; the

negative terminal is black

6PIN PCIE Positive and Negative Output

Terminals:

Positive: Yellow 1, Yellow 2, Yellow 3

Negative: Black 4, Black 5, Black 6

	DC Voltage	12V
	Minimum Rated Current (220V	12V/170A
	input)	
	Minimum Rated Power (220V	12V/2040W
	input)	
Output	Ripple & Noise	<1%
	Line Regulation	<1%
	Load Regulation	<1%
	Setup Time	<25
	Short Circuit Protection Time	>10mS
	6PIN PCIE Terminals	≥13
	Voltage Range	200-240V AC
Input	Frequency Range	47-63Hz
	Power Factor	>0.99(full load)



	Leakage Current	<1.5mA (220V 50Hz)
	Low-voltage Input	80-89V AC
Protection	Output Short Circuit	Yes
	Output Overcurrent	180-200A
	Overheat Protection	Yes
	Operating Temperature	-20-60℃
Environment	Operating Humidity	20%-90%RH(non-condensing)
	Altitude	<2000m

Precautions for Use:

1.Before using the PSU, please ensure that your local voltage and power outlets are compatible with the requirements of the product. Output voltage from the power socket should meet the product's voltage requirement. The leading-out terminal model, polarity and quantity must also be in accordance with the product requirements stipulated in this guide.

2. Please ensure that the PSU appears to be in good shape and has not suffered any damage in transit. If the exterior of the PSU appears damaged, do not use it.

3. Make sure that the ground electrode of PSU is properly grounded to ensure the electricity safety and EMI reduction.

4. As different countries have different power outputs, we do not supply an AC input cable with our PSUs. Customers should purchase an AC input cable output that is compatible with the local power grid plug. The type number of the cable end interface to be connected with the power panel is C13, and the sectional area of copper conductor for cables should not be less than 1 square millimeter.

5. The PSU must be installed in an dust-free environment with good and unobstructed air circulation. Any items blocking the air flow of the PSU is prohibited and under no circumstances should the PSU be installed in an enclosed place. Installation also should not be done in environment where there is high condensation or high level of salt content and humidity in the air.

6. The correct way to use the PSU is to connect the output wire terminal, and then connect the input cable after the load and PSU output terminals are connected. Either connecting or disconnecting the output terminals are forbidden when the PSU is powered on. **Voltaic arcs** generated by excessive DC can damage DC output terminals and pose a fire hazard.

7. Maintaining a good working environment and derating can greatly prolong the lifespan

of PSU. It is generally recommended that the load power not exceed 90% of the rated power of the PSU and the temperature not exceed 50 degrees Celsius. It should be used in a dust-free, non-polluted area where there is low humidity and low salt content in the air. The derating method will also allow the PSU to work at a higher efficiency point, which can help in electricity savings.



Thirteen PCI-e connectors are located at the top of the S9 Hydro server for connecting the PSU as follows:

- Twelve PCI-e connectors for the hash boards. Each hash board has three PCI-e connectors.
- One PCI-e connector located on the controller.

Each hashboard must be powered by the same PSU to prevent possible damage and instability.

To connect the power supply:

1. Connect PSU power cable connectors to each of the twelve PCI-e connectors on the top of the S9 Hydro server, ensuring that each hash board is powered by the same PSU.



- A、SN Label B、Controller Ribbon cable Connector C、Controller PCI-e Power Connector
- D_{Λ} Ribbon cable E_{Λ} Fan Connector F_{Λ} Pump Connector
- G、Hash Boards Ribbon cable Connector H、Hash Boards PCI-e power Connector I、Pipe Connector
- 2. Connect a PSU power cable connector to the S9 Hydro PCI-e connector on the controller.
- 3. Connect the network cable to the ETH port.
- 4. To power up your S9 Hydro server, connect the PSUs to the power wall outlet.

If you are using more than one PSU, power up the PSU connected to the controller AFTER you have Powered up the other PSU(s).



3.Connecting S9 Hydro Hex to Server



A、Fan connection

Four 4-pin connectors of the control board and two connectors separated by one line will be connected with 6 fans. The plug must be inserted in place, the fan line order does not matter as long as it is connected.

B、Pump connection

The control board has a black 4-pin connector to which the pump must be connected.

C、 Connection of pipelines

The S9 Hydro pump should be connected in series with the pipe, and the joint should be clamped with a buckle. The figure below shows the recommended connection.







Attention: The position of pipes may be slightly adjusted and it won't have any effect on usage.

For better heat dissipation effect, it is recommended to connect pipes in this way.

Radiators & Accessories Specs (for reference only)				
Quantity of fans	≥6			
Fan speed, RPM	≥3500			
Airflow, CFM	≥124			
Power of fan, W/pcs	≤10			
Heat exchanger size, mm	≥360*120*25			
Quantity heat exchangers	≥2			
Quantity of pumps	1			
Water flow, L/min	5~15			
Hydrostatic pressure, KPa	50~300			
Power of pumps, W	≤40			
Fan connection mode	4-Pin ,DIP,pitch2.54mm.			
	pin1:GND,pin2:12V,pin3:FAN_SPEED,pin4:FAN_PWM			
Pump connection mode	4-Pin ,DIP,pitch2.54mm.			
	pin1:GND,pin2:12V,pin3:blank,pin4:blank			
Water tube(ID)	8mm			
Inlet&outlet	G1/4			



Precautions for Use:

1.When connecting the fan and pump connectors on S9 Hydro Hex, please pay attention to the position of the corresponding connector on the control board. As the power of pump varies from fan's, the flow through capacity of the connector on the control board also varies. The wrong insertion may cause damage to the control board.

2.The water replenishment period of S9 Hydro Hex is about 2-3 months. Please pay attention to checking the liquid level of the water tank regularly for replenishment so as to avoid the low water level which can affect the heat dissipation efficiency or the lifespan of the pump.

3.After the initial commissioning of water cooling system or the completion of water replenishment, it is recommended to reinstall the plug at the water replenishment port in a timely manner to ensure the sealing performance of the water cooling system and avoid the leakage of the coolant under unexpected conditions.

4.Ensure that spring hoop is placed on the joint when installing the water hose to avoid affecting the sealing performance of the water cooling system or causing the pipeline to fall off when pulled by external force.

5.It is recommended to start the long-term operation of the server after the water cooling system is commissioned to avoid any malfunction of the server due to the high temperature of the chip. This process may last for 20 minutes or so.

6.According to the air quality of the operating environment, it is recommended to dedust the heat exchanger of the S9 Hydro Hex regularly to ensure a good heat transfer performance.

7.Cooling water is recommended to refer to the requirements for water quality on our official website, or to purchase reliable distilled water or pure water to ensure that it will not deteriorate or corrode the pipeline during long-term operation.

8.In order to ensure that the standard water pump can output sufficient flow to meet the heat dissipation requirements of the system at high temperatures, it is recommended that the hose length between the S9 Hydro Hex and the S9 Hydro server should not exceed 1 meter unless a pump with a larger head or flow is used. 9.If the customer purchases the water pump by himself, please remove the speed control signal line shown in the following figure before installation and ensure that the two wires are not short circuited so as to obtain a better heat dissipation effect.

10.When the pump is found to have a low flow rate during the exhaust operation, it may be because the gas inside the pump cannot be discharged normally, resulting in abnormal flow. The pump connector can be unplugged and restarted after the power is turned off, which is beneficial to the internal gas discharge of the pump. This operation may need to be repeated 2 to 3 times. It is recommended to operate before the server is started to avoid affecting the heat dissipation of the server.







4. Pump Water-infusion

4. Pump Water-infusion

Note:



S9 Hydro Hex is recommended for your S9 Hydro Server. Please refer to the pump water-infusion requirements if S9 Hydro Hex is used for your server.

A.Water quality

Water Quality Requirements

No	Project	Standard	Remark
1	Total Microbial C ount	<10⁵CFU/mL	reflection of system microorganism controlling condition
2	Turbidity	<10NTU	reflection of suspended solids condition in water system
3	PH Value	6~9	indirect reflection of microorganism condition
4	Conductivity	<1 mS/cm	reflection of ionic concentration in water system

In order to support the long-term optimum operations of the water cooling system, we recommend that the water quality used should meet the requirements as stated in the table above.



Water-cooling plates inside the server are welded parts made of aluminum, which have been cleaned before roll-out. Water in some servers may appear to be turbid after running for a period of time. Kindly note that this will not affect on the overall cooling system and long-term operation of the system.

B. Keep adding water. Since water is needed in both the server and the radiators, water in the pump will be reduced when the server is mining. Always remember to add water when starting the server to ensure that the water level is sufficient for optimal heat dissipation.



4. Pump Water-infusion

C.S9 Hydro server and radiators can be tilted left and right during water infusion which helps to ventilate the air.



After water circulation is running normally, S9 Hydro server and radiators can be slowly tilted left and right to help the residual air bubbles inside those two equipment to be discharged smoothly. This action can help to increase the cooling efficiency of the system.

D.Liquid Level: the standard level is as stated in the picture below. Please replenish the liquid promptly if the liquid level falls below the minimum value marking.



Maximum Value Minimum Value



5.Setting Up the Server

5. Setting Up the Server

To set up the server:



The file IPReporter.zip is supported by Microsoft Windows only.

1. Go to the following site:

https://shop.bitmain.com/support.htm?pid=00720160906053730999PVD2K0vz0693

2. Download the following file: IPReporter.zip

3. Extract the file.



The default DHCP network protocol distributes IP addresses automatically.

- 4. Right-click IPReporter.exe and run it as Administrator.
- 5. Select one of the following options:
 - Shelf, Step, Position suitable for farm servers to mark the location of the servers.
 - Default suitable for home servers.
- 6. Click Start.

Shelf 1	Step 1	Positio	n 1	Start
Information	1			
NO. IF	>		MAC	
this is suitable	for farm miners to	mark location o	f miners.	
il youre nome	miner, you may le	ave it as ueraul	L unecuy.	
4				
٢				





7. On the controller board, click the IP Report button. Hold it down until it beeps (about 5 seconds).

The IP address will be displayed in a window on your computer screen.

	C	Confirmation		×
r	IP 1	123	-	
POS	MAC 6C:EC:EB	3:62:39:F2		
	ок	Skip	Stop	

- 8. In your web browser, enter the IP address provided.
- 9. Proceed to login using root for both the username and password.
- 10. In the Network section, you can assign a DHCP IP address (optional).

11. Click Save & Apply	y.
------------------------	----

System Miner Configuration Miner Status Network Settings Diagnostics			
Network Settings			
Network setup for Miner			
Status	MAC-Address:C4:F3: IP:192.168.1.101 whth Netmask:255.255.255	12:67:78:17 .0	
Hostname	antMiner		
Protocol	DHCP		
IP Address			
Netmask			
Gateway			
DNS Servers			
			Beset Save&Annly



6.Configuring the Server

6. Configuring the Server Setting Up the Pool

To configure the server:

1. click General Settings.

Ant Miner ×		Θ – σ ×
← → C ③ 不安全 10.31.18.213/cgi-bin/minerConfi	guration.cgi	Qe 🛠 3
ANTMINER		
System Miner Configuration Miner Status Network General Settings		
Miner General Configuration		
Pool 1		
URL	solo antpool com:3333	
Worker	antminer_1	
Password	123	
Pool 2		
URL	stratum antipool.com:3333	
Worker	antminer_1	
Password	123	
- Pool 3		
URL	stratum+tcp://cn.ss.btc.com:3333	
Worker	antminer 1	
Password	123	
I		
		Reset Save&Apply

2. Set the options according to the following table:

Option	Description	
Pool URL	Enter the URL of your desired pool. The S9 Hydro 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 are offline.	
Worker	Your worker ID on the selected pool.	
Password	The password for your selected worker.	

3. Click Save & Apply to save and restart the server.



7. Monitoring Your Server

7. Monitoring Your server

To check the operating status of your server:

1. Click the status marked below.

NR Miner Status Miner Status Miner Status Miner Status Miner Status status GH/S(RT) GH/S(RT) GH/S(RT) GH/S(RT) BestShare status 13m15 18,455.93 18,514.42 0 61,565 3.87 225.54.11 182021 roots 12m15 18,455.93 18,514.42 0 61,565 3.87 225.54.11 182021 roots 18,445.03 18,514.42 0 61,565 3.87 225.54.11 182021 roots memore_1 Alve 65.54 2 1 0 0 3.886,624 0 0 0 64.20 0 6.5,58 0	C ① 不安	È 10.31.18.213/	cgi-bin/minerStatu	s.cgi														07	00
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10 18 743.00 1,556.00 1,492.42 0 55-55-52 76-70-67 0000000 0000000 00 11 18 750.00 1,539.00 1,558.42 1 55-58-53 70-77-68 0000000 000000 00 12 16 745.00 1,554.40 0 55-58-53 70-77-68 00000000 00 13 18 743.00 1,526.00 1,544.90 0 55-38-53 70-77-66 00000000 00 13 18 743.00 1,526.00 1,544.40 2 54-55-1 69-70-66 00000000 00 00000000 00 14 18 735.00 1,524.70 0 54-55-1 69-70-66 00000000 00 000000000 00 00000	9	18	749.00		1	.538.00		1,545.21	0		55-55-52		70-7	0-67					
11 18 750,00 1,539,00 1,558,42 1 55-38-53 70-72-68 авоосово овсемого ос овсемого ос 12 10 74,600 1,557,00 1,544,90 0 55-58-53 70-72-68 овсемого ос 0 55-58-53 70-72-68 овсемого ос 0 55-58-53 70-72-68 овсемого оссемого ос 1 3 18 743,00 1,584,64 2 54-55-51 69-70-66 овсемого оссемого оссемого ос 1 4 16 735,00 1,524,70 0 54-55-51 69-70-66 овсемого оссемого ос 0 54-55-51 69-70-66 овсемого оссемого оссемого ос 0 54-55-51 69-70-66 овсемого оссемого ос 0 54-55-51 69-70-66 овсемого оссемого ос 0 54-55-51 69-70-66 овсемого оссемого ос 0 <td< td=""><td>10</td><td>18</td><td>743.00</td><td></td><td>1</td><td>,526.00</td><td></td><td>1,492.42</td><td>0</td><td></td><td>55-55-52</td><td colspan="2">52 70-70</td><td colspan="2">000000000000000000000000000000000000000</td><td colspan="2">00000000 0000000 00</td><td></td></td<>	10	18	743.00		1	,526.00		1,492.42	0		55-55-52	52 70-70		000000000000000000000000000000000000000		00000000 0000000 00			
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13 18 (43,00) 1,526,00 1,563,64 2 54-55-31 69-70-66 отосоволо вовского о посоволо составо о постав 14 16 735.00 1,51,70 0 54-55-51 69-70-66 отосоволо вовского о посоволо составо о постав отосоволо составо о 18,465,93 54-55-51 69-70-66 отосоволо составо о составо о	12	16	749.00		1	,537.00		1,544.90	0		55-58-53		70-7	3-68	00	0000000 00	0000000 00		
14 18 735.00 1,510.00 1,524.70 0 54-55-51 69-70-66 00000000 0000000 00 Total 216 748.91 18,000.00 18,455.93 0 54-55-51 69-70-66 00000000 0000000 00	13	18 743.00 1,526.00			1,563.64	2 54-55-51			69-70-66		00000000 0000000 00								
100a c10 15,000 18,405,75	14 Total	14 16 735.00 1,510.00		,510.00	1,524.70 0 54-55-51			69-70-66		00	00000000 0000000 00								
	iocai	216	/48,91		1	5,000.00		18,465,93											
Fan# Fan1 Fan2 Fan3 Fan4 Fan5 Fan6 Fan7 Fan8	Fan#	Fa	n1	Fan2		Fant	3	Fan4		F	an5		Fan6		Fan7		Fan	8	

2. monitor your server according to the descriptions in the following table:

Option	Description
ASIC#	Number of chips detected in the chain.
Frequency	ASIC frequency setting.
GH/S(RT)	Hash rate of each hash board (GH/s)
Temp(PCB)	Temperature of each hash board (°C).(Applied only to server with fixed frequency)
Temp(Chip)	Temperature of the chips on each hash board (°C).
ASIC status	One of the following statuses will appear:
	• O - indicates OK
	• X - indicates error
	• indicates dead

Note: The S9 Hydro server is with automatic frequency adjustment. Firmware will stop running when the Temp(PCB) reaches to 85 °C, there will be an error message "Fatal Error: Temperature is too high!" shown in the bottom of kernel log page.



8. Administering Your Server

8. Administering Your Server

8.1 Checking Your Firmware Version

To check your firmware version:

- 1. In System, click the Overview tab.
- 2. **File System Version** displays the date of the firmware your server use. In the example below, the server is using firmware version 20180820.

		0
⑦ ⑦ 不安全 10.31.18.213/index.html		
(MÎNER		
System Miner Configuration Miner Status Network		
Overview Administration Monitor Kernel Log Up	grade Reboot	
hendeur		
verview		
System		
Miner Type	Antminer 59 Hydro	
Hostname	antMiner	
Model	GNU/Linux	
Hardware Version	260.0.1.3	
Kernel Version	Linux 3.14.0-xilinx-g16220c3 #83 SMP PREEMPT Thu Jul 12 11:42:53 CST 2018	
File System Version	Mon Aug 20 12:00:39 CST 2018	
Logic Version	V1.03	
BMminer Version	2.0.0	
Uptime	26	
Load Average	0.35, 0.33, 0.21	
Memory		
Total Available	43603 kB / 405592 kB (0%)	
Free	451032 kB / 405502 kB (01%)	
Cached	0 kB / 105592 kB (0%)	
Buffered	0 kB / 405592 kB (0%)	
Network		
IP Status	Type: DICP Address: 10.3118.213 Medines: 12.3525.25.0	

8.2 Upgrading Your System

Make sure that the S9 Hydro server remains powered during the upgrade process. If power fails before the upgrade is completed, you will need to return it to Bitmain for repair.

To upgrade the server's firmware:

1. In System, click Upgrade.

System Miner Configuration Miner Status Network		
Overview Administration Monitor Kernel Log Upgrade	Reboot	
Upgrade		
Backup / Restore Click "Generate archive" to download a tar archive of the current confi	puration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).	
Download backup:	Generate archive	
Reset to defaults:	Perform reset.	
To restore configuration files, you can upload a previously generated t	ackup archive here.	
Restore backup:	道范 未选择文件。 Upload archive	
Flash new firmware image Upload a sysupgrade-compatible image here to replace the running firm	ware. Check "Keep settings" to retain the current configuration.	
Keep settings:	N.	
Image:	國語 未過程文件。 III Flash Image	



8. Administering Your Server

- 2. For Keep Settings:
 - Select the check box to keep your current settings (default).
 - Clear the check box to reset the server to default settings.
- Click the https://www.eithen.click
 Click the https://www.eithen.click
 Flash image. A message appears notifying you if the S9 Hydro firmware can be upgraded and if yes, will then proceed to flash the image.
- 4. When the upgrade is completed, the following message appears:

TMÎNER System Miner Configuration Miner Status Network	
Overview Administration Monitor Kernel Log Upgrade Reboot	
The upgrade installed successfully. Please restart Miner to activate.	

- 5. Click one of the following options:
 - **Reboot** to restart the server with the new firmware.
 - **Go Back** to continue mining with the current firmware. The server will load the new firmware next time it is restarted.

8.3 Modifying Your Password

To change your login password:

- 1. In System, click the Administration tab.
- 2. Set your new password, then click **Save & Apply**.

System Miner Configuration Miner Status Network Overview Administration Monitor Kernel Log Upgrade Reboot		
Password		
Changes the administrator password for accessing the device		
Current Password	Current Password	
New Password	New Password	
Confirmation	Confirmation Password	
		Reset Save&Apply

8.4 Restoring Initial Settings

To restore your initial settings

- 1. Turn on the server and let it run for 5 minutes.
- 2. On the controller front panel, press and hold the **Reset** button for 10 seconds.



Resetting your server will reboot it and restore its default settings. The red LED will automatically flash once every 15 seconds if the reset is operated successfully.



Regulation:

FCC Notice (FOR FCC CERTIFIED MODELS):

S9 Hydro Server Installation Guide

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.

		設備名稱:		, 型號:						
單元	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻 (Cr+6)	多溴聯苯 (PBB)	多溴二苯 醚 (PBDE)				
外殼	0	0	0	0	0	0				
電路板組 件		0	0	0	0	0				
其他線材 — O O O O										
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. "〇"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. "一"係指該項限用物質為排除項目										

台湾 ROHS: