TS-EC1X79U-SAS-RP Test SOP

Flow Diagram



Testing device list

LAN Cable (RJ-45)	x4	
SAS HDD Fixture	x1	
Power Cord	x2	
USB 2.0 drive	x4	
USB 3.0 drive	x4	
Paper Clip	x1	
SATA HDD	x12~16	
GbE hub or switch	x1	
HDMI Monitor	x1	
PCIe card	as necessary	
PC (for client testing)		



After Power on

1. Insert the HDDs in the slots



2. Install the testing devices



4. Enter the URL below in client PC (Edit the **red** section as the NAS IP) **http://NAS-IP:8080/cgi-bin/hwtest/hwtest.cgi?func=start**



5. Enter the username(admin) & Password(admin)

Testing Interface

Select the test options and run it



開始

測試選項	=	Test option
-標準測試項目	=	Standard Test Option
-加測 HDMI	=	Add HDMI test
-加測QR Code	=	Add QR Code test
-加測 SPDIF Audio	=	Add SPDIF Audio test
-寫入VPD資料	=	Write VPD data
開始	=	Start

Confirm:

- 1. System Model
- 2. CPU (Processor)
- 3. Firmware (System, SAS HBA, SAS Expander)
- 4. MAC Address

system model: TS-EC1279U-SAS-RP CPU info: Intel(R) Xeon(R) CPU E3-1245 V2 @ 3.40GHz system version: 1.2.7(build 20130820) SAS HBA FW Version: 0d003900 0d430002 SAS Expander FW Version: 06.01 MAC1 Address: 00:08:9B:DA:EC:F0 MAC2 Address: 00:08:9B:DA:EC:F1 MAC3 Address: 00:08:9B:DA:EC:F2 MAC4 Address: 00:08:9B:DA:EC:F3 1. 检查風后電壓值 2. Redundant Power 測試 。拔出Power1,有長嗶聲且HDD1燈和HDD2燈皆亮紅燈,插入Power1,有長嗶聲且 HDD1燈和HDD2燈替亮綠燈 。拔出Power2,有長曄聲且HDD3燈和HDD4燈皆亮紅燈,插入Power2,有長曄聲且 HDD3燈和HDD4燈皆亮絲燈 3. 按鈕測試 ·按ResetButton,有長暉聲且Status亮紅燈、HDD燈告亮紅燈、10G燈亮綠燈 、按PowerButton,直到有短曄聲且status亮綠燈、HDD燈告亮綠燈、10G燈不亮燈 。按機發Button,有短曄聲且HDD1燈和HDD2燈皆亮紅,訪開Button,有短曄聲且 HDD1營和HDD2擅皆亮綠燈 4. HDMI to TV? (開機時, 電視會顯示彩色的 QNAP logo) ·Yes=No 設定MAC1 Address (XX:XX:XX:XX:XX:XX) 設定MAC2 Address (XX:XX:XX:XX:XX:XX) 設定MAC3 Address (XX:XX:XX:XX:XX:XX) 設定MAC4 Address (XX:XX:XX:XX:XX:XX) 設定Hardware Serial Number (限輸入最多20個英文字母或數字) 設定SAS HBA SAS Address 設定SAS Expander SAS Address 設定Country Code T-7

Function Tests

Redundant Power Test:

Disconnect power cord 1; LED of HDD1,HDD2 light **Red** Reconnect power cord 1; LED of HDD1,HDD2 light **Green**

Disconnect power cord 2; LED of HDD3,HDD4 light **Red** Reconnect power cord 2; LED of HDD3,HDD4 light **Green**



Reset button test:

Use a <u>paper clip</u> to click the Reset Button (in the hole marked Reset) You will

- 1. Hear **beep** sound once
- 2. See the Info, Alert and HDD Status LEDs light Red; 10G Status LED lights Green.



Power button test:

Press the Power Button and you will

- 1. Hear the beep sound once
- 2. See the Info, Alert and HDD Status LEDs light Green; 10G Status LED is off.





Top cover sensor test

Take off the top cover then press the sensor switch and hold. You will:

- 1. Hear the beep sound once
- 2. See the HDD1 and HDD2 LEDs light Red

Release the switch; the LEDs of HDD1 and HDD2 return to Green





Select options and fill in the blank fields

Item 1: Select "Yes" for displaying QNAP booting logo for HDMI display
Item 2&3: Fill them in order in the red frame
MAC1~4 Address, Hardware Serial Number, SAS HBA address, SAS Expander address and Country Code (Refer to the green box)

Click Next (button marked [下一步]) once all information is filled in



The test results must all be OK after the test progress completed. The NAS is judged as defective if any option test resulted in **fail**.



Finish Test

Click the button marked [關機], the NAS will shutdown automatically.