

TVS-x72N

TVS-672N TVS-872N

使用者指南

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1. 前言

關於本指南

本指南涵蓋 QNAP TVS-x72N NAS 的相關資訊,以及安裝硬體的逐步指示。此外,本指南也提供基本操作說明與疑難排解資訊。

適用對象

本文件的適用對象為消費者與儲存空間管理員。本指南預設使用者對於儲存與備份概念有基本的認識。

慣用符號

符號	說明
	注意事項。用於提供預設組態設定與其他補充資訊。
1	重要注意事項。用於提供必要組態設定及其他重要資訊。
	提示。用於提供任務執行或組態設定的建議或替代方式。
	警告。忽略此類資訊可能導致潛在損失、受傷甚至死亡事故。

2. 產品概觀

本章介紹 QNAP TVS-x72N NAS 的基本資訊。

關於 TVS-x72N

TVS-x72N 搭載 Intel® Core™ i3-8100T 處理器並支援最高 32 GB DDR4 記憶體,是一款高效能 NAS 機型。 其具備可外接螢幕的 HDMI 連接埠,以及支援簡單的資料備份及傳輸的 USB 單鍵備份埠。除了一個 5GbE 網路通訊埠和兩個 Gigabit Ethernet 通訊埠外,TVS-x72N 還配備一個 PCIe 3.0 x4 插槽和一個 PCIe 3.0 x16 插槽,可提供多元化功能,包括額外資料管理與其他多媒體支援。

硬體規格

訂購料號 硬碟插槽 記憶體		電源供應器	
TVS-672N	6	Intel® Core™ i3-8100T	單一
TVS-872N	8	Intel® Core™ i3-8100T	單一

元件	TVS-672N	TVS-872N		
處理器				
處理器	Intel® Core™ i3-8100T			
頻率	4 核心 / 4 執行緒 3.1 GHz			
架構	x86 64 位元			
加密引擎	AES-NI			
繪圖技術	Intel® UHD Graphics 630 圖形處理	器		
	提示 您可以在 PCIe 插槽中安裝顯示卡。			
記憶體				
預載記憶體	4 GB RAM: 2 x 2 GB SODIMM 8 GB RAM: 2 x 4 GB SOI DDR4 8 DDR4			
記憶體插槽	2 x SODIMM DDR4			
	重要 僅限使用 QNAP 記憶體模組以維護系統效能和穩定 性。若是具有一個以上記憶體插槽的 NAS 硬碟,請使 用規格相同的 QNAP 記憶體模組。 使用不支援的記憶體模組會導致效能降級、產生錯誤, 或造成作業系統無法啟動。			
最大記憶體	32 GB : 2 x 16 GB			
快閃記憶體	5 GB(雙啟動作業系統防護)			
· · · · · · · · · · · · · · · · · · ·				
硬碟插槽	6 x 3.5 吋 SATA 6 Gbps 8 x 3.5 吋 SATA 6 Gbps			
	注意 SATA 6 Gbps 硬碟與 3 Gbps 回溯相容。			

元件	TVS-672N	TVS-872N	
硬碟相容性	3.5 吋插槽:		
	• 3.5 吋 SATA 硬碟		
	• 2.5 吋 SATA 硬碟		
	│ • 2.5 吋 SATA 固態硬碟		
M.2 SSD 插槽	2 x M.2 PCle Gen3 x2		
	提示		
	您可以在 PCIe 插槽中安裝 N	M.2 SSD 擴充卡。	
M.2 SSD 機型	2280		
SSD 快取加速技術支援	3.5 吋硬碟插槽 1 至 6	3.5 吋硬碟插槽 1 至 8	
	• M.2 SSD 插槽 1 至 2		
	• 非必要步驟: M.2 SSD 擴充卡」	二的 M.2 SSD 插槽	
熱抽換	此裝置支援熱抽換硬碟,但以下除外	:	
	• M.2 SSD		
	• SSD 快取硬碟		
	│ │ ● 非必要步驟:安裝在 M.2 SSD 持	廣充卡上的 M.2 SSD	
網路			
5 Gigabit 乙太網路埠	1 x 5 GbE RJ45		
	注意 5 GbE RJ45 Gigabit 乙太網路埠提供五種網路連線速度:5G、2.5G、1G、100M 和 Multi-Gigabit。		
Gigabit 乙太網路埠	2 x 1 GbE RJ45		
外接 I/O 埠和擴充插槽			
PCIe 插槽	• 1 x PCle Gen 3.0 x16		
	• 1 x PCle Gen 3.0 x4		
	提示 請前往 https://www.qnap.com/compatibility 查看相容的 擴充卡清單。		
USB 連接埠	正面: 1 x USB 3.1 Gen 2 (10Gbps) 5V/1A	. Туре-А	
	注意 此 USB 連接埠支援單鍵備份功能。		
	背面:		
	• 1 x USB 3.1 Gen 2 (10Gbps) 5V/1A Type-A		
	• 1 x USB 3.0 Type-A		
	• 2 x USB 3.1 Gen 2 (10Gbps) 5V/3A Type-C		
HDMI 連接埠	1 x HDMI 2.0 (解析度最高 3840 x 2	160 · 60 Hz HDR)	

元件	TVS-672N	TVS-872N
音訊埠	• 1 x 3.5 mm 麥克風插孔	
	• 1 x 3.5 mm 輸出插孔	
	• 1 x 喇叭	
	注意 無法同時使用喇叭與輸出插著	ጚ。
網路介面		
顯示面板	單色背光 LCD 顯示面板	
紅外線感測器	1	
	注意 QNAP RM-IR004 遙控器需5	另外選購。
按鈕	• 電源	
	• 重設	
	● USB 單鍵備份	
尺寸		
外型	直立式	
尺寸(高 x 寬 x 深)	188.2 x 264.3 x 279.6 mm (7.41 x 10.40 x 11.01 时)	188.2 x 329.3 x 279.6 mm (7.41 x 12.96 x 11.01 吋)
淨重	6.55 kg (14.44 lbs)	7.06 kg (15.56 lbs)
其它		
電源供應器	1 x 250W · 100-240V AC · 50/60 Hz 警告 為了降低走火或觸電風險,務必只將電源線連接至正確接地的電源插座。	
	CR2032 鋰電池 (3V · 225 mAh)	
	警告 更換電池時,請務必使用相同類型的電池,以免電池爆 炸造成受傷或元件損壞。 重要	
	請遵照當地法規或電池製造商的指示處置廢棄電池。	
	23.8 db(A)	24.2 db(A)
	注意 從旁觀者位置(距 NAS 一公 試用的 NAS 中安裝最多數量	

元件	TVS-672N	TVS-872N
風扇	• 系統:2 x 9.2 cm · 12V DC 風扇	
	• CPU:2x6cm·12VDC鼓風原	到
	警告	
	請勿在 NAS 連上電源時觸碰風扇,以免受傷或損壞元件。	
操作溫度	0°C 到 40°C (32°F 到 104°F)	
相對濕度	• 不凝結相對溼度:5% 至 95%	
	• 濕球溫度:27°C (80.6°F)	
安全鎖	Kensington 安全鎖	



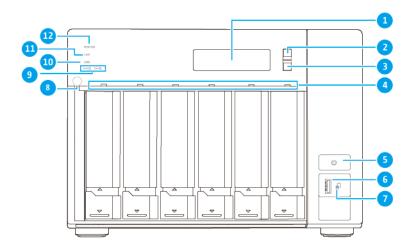
提示 型號規格如有變更·恕不另行通知。若要查看最新規格·請前往 https://www.qnap.com。

包裝內容

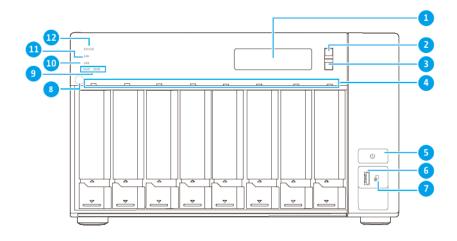
項目	數量
TVS-x72N NAS	1
電源線	1
乙太網路線	3 x RJ45
3.5 吋硬碟用螺絲	• TVS-672N:18 個螺絲
	• TVS-872N:24 個螺絲
2.5 吋硬碟用螺絲	• TVS-672N:18 個螺絲
	• TVS-872N:24 個螺絲
M.2 SSD 散熱器	2
快速安裝手冊 (QIG)	1

元件

前方面板



TVS-672N

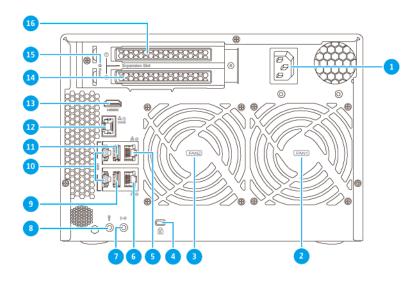


TVS-872N

編號	元件	編號	元件
1	LCD 面板	7	USB 單鍵備份按鈕
2	Enter(進入)按鈕	8	紅外線感測器
3	Select(選擇)按鈕	9	M.2 SSD LED 燈
4	硬碟 LED 燈	10	USB LED 燈
5	電源按鈕	11	LAN LED 燈

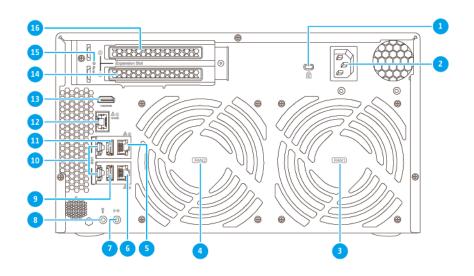
編號	元件	編號	元件
6	USB 3.1 Gen 2 單鍵備份 Type-A 連接埠	12	狀態 LED 燈

背部面板



TVS-672N

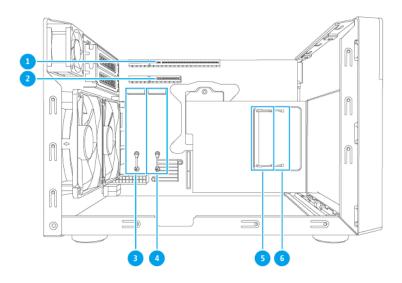
編號	元件	編號	元件
1	電源輸入	9	USB 3.1 Gen 2 Type-A 連接埠
2	系統風扇 1	10	USB 3.1 Gen 2 Type-C 連接埠
3	系統風扇 2	11	USB 3.0 Type-A 連接埠
4	Kensington 安全鎖	12	乙太網路埠 (5GbE RJ45) 1
5	乙太網路埠(GbE RJ45) 2	13	HDMI 2.0 連接埠
6	乙太網路埠(GbE RJ45) 3	14	PCle 長蓋 2
7	3.5 mm 輸出插孔	15	重設按鈕
8	3.5 mm 動圈式麥克風插孔	16	PCle 長蓋 1



TVS-872N

編號	元件	編號	元件
1	Kensington 安全鎖	9	USB 3.1 Gen 2 Type-A 連接埠
2	電源輸入	10	USB 3.1 Gen 2 Type-C 連接埠
3	系統風扇 1	11	USB 3.0 Type-A 連接埠
4	系統風扇 2	12	乙太網路埠 (5GbE RJ45)
5	乙太網路埠(GbE RJ45) 1	13	HDMI 2.0 連接埠
6	乙太網路埠(GbE RJ45) 2	14	PCle 長蓋 2
7	3.5 mm 輸出插孔	15	重設按鈕
8	3.5 mm 動圈式麥克風插孔	16	PCle 長蓋 1

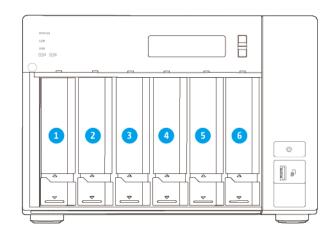
系統板



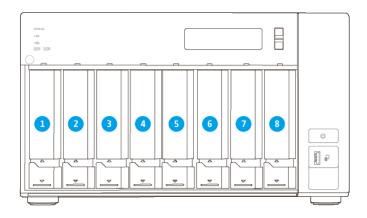


編號	元件	編號	元件
1	PCle 3.0 x16 插槽 1	4	M.2 SSD 插槽 2
2	PCle 3.0 x4 插槽 2	5	記憶體插槽 1
3	M.2 SSD 插槽 1	6	記憶體插槽 2

硬碟編號



TVS-672N



TVS-872N

安全資訊

以下指示幫助確保人身安全及環境安全。執行任何操作前,請仔細閱讀本安全指示。

一般指示

- 裝置應放置在實施進出管制的安全場所,控管方式包括工具、鎖鑰或其他安全機制。
- 唯有具技能且獲得授權的合格裝置管理員能夠存取裝置;合格裝置管理員必須熟悉所有管制方法、安全注意事項、安裝及保養程序。
- 為避免受傷或元件損壞,在觸碰硬碟及其他內部系統元件前,請先確認其是否已經冷卻。
- 請遵守靜電放電 (ESD) 程序以防止潛在傷害或元件損壞。

電源

• 為了降低走火或觸電風險,務必只將電源線連接至正確接地的電源插座。



具有備援電源供應器的裝置可能配備一條或多條電源供應器 (PSU) 電源線。為防止嚴重傷害事故發生,在安裝或更換系統元件前,所有 PSU 電源線必須由經訓練之維修技術人員從裝置拔除。

系統電池

- 更換電池時,請務必使用相同類型的電池,以免電池爆炸造成受傷或元件損壞。
- 請遵照當地法規或電池製造商的指示妥善處置廢棄電池。

移動的零件

•



轉動的風扇葉片:裝置連接至電源時,請使身體部位遠離正在轉動的風扇葉片。

•



移動的元件:使身體部位遠離正在移動的其他元件。

安裝需求

類別	項目	
環境	• 室溫:0°C 到 40°C(32°F 到 104°F)	
	• 不凝結相對溼度:5% 至 95%	
	● 濕球溫度:27°C (80.6°F)	
	平坦且防靜電的表面,不受陽光直射,亦不與液 體或化學物質接觸	
	沒有物體會阻礙 NAS 通風或者對 NAS 或電源線 產生壓力	
硬體和週邊設備	儲存硬碟 如需相容硬碟的詳細資訊,請前往 https:// www.qnap.com/compatibility/。	
	網路線	
工具	• 1 號或 2 號十字螺絲起子	
	• 防靜電腕帶	

設定 NAS



重要

設定 NAS 或安裝 NAS 元件前,請詳閱安全資訊中所有安全要求及資訊。

- 1. 將 NAS 裝置放置在符合需求的環境。如需詳細資訊,請參見:安裝需求。
- 2. 安裝硬碟。

如需詳細資訊,請參見下列主題:

- 在 3.5 吋托盤上安裝 3.5 吋硬碟
- 在 3.5 吋托盤上安裝 2.5 吋硬碟
- 安裝 M.2 固態硬碟
- 3. 連接電源線與所有適用的網路線。

- **4.** 打開 NAS 電源。
- **5.** 安裝 QTS。 如需詳細資訊,請參見: QTS 安裝。
- **6.** 登入 QTS。

3. 硬體安裝

本節介紹安裝硬碟、記憶體模組以及擴充卡的相關資訊。

硬碟安裝

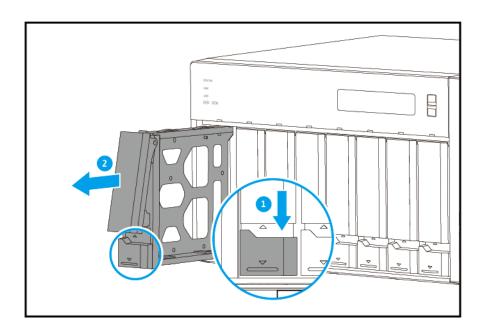
TVS-x72N 與 3.5 吋和 2.5 吋硬碟、2.5 吋固態硬碟以及 M.2 固態硬碟相容。

在 3.5 吋托盤上安裝 3.5 吋硬碟

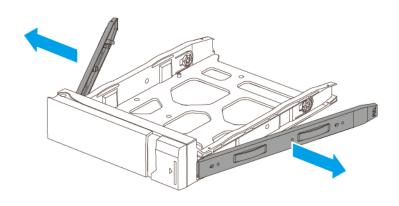


警告

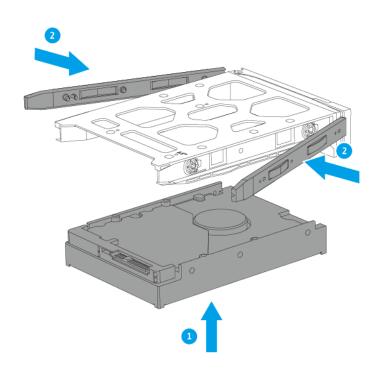
- 安裝硬碟會刪除硬碟上的所有資料。
- 請遵守靜電放電 (ESD) 程序以防止元件損壞。
- 1. 關閉 NAS 電源。
- 2. 取出硬碟托盤。
 - a. 將固定鎖向下推。
 - **b.** 拉把手以鬆開托盤。
 - c. 將托盤拉出。



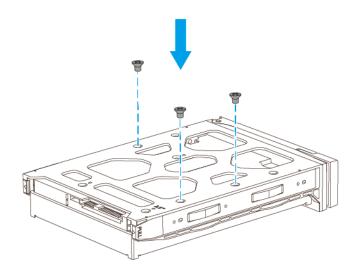
- 3. 在托盤上安裝硬碟。
 - a. 取下硬碟托盤兩側的固定面板。



- **b.** 將硬碟放在托盤上,讓硬碟兩側的孔洞與托盤兩側的孔洞對齊。
- c. 裝上固定面板。

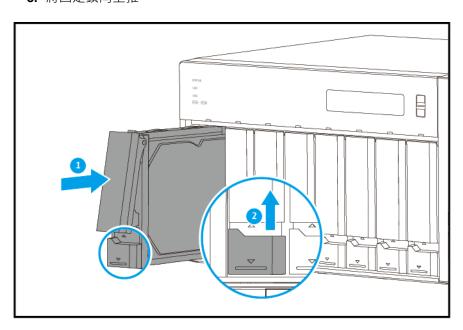


d. 鎖上螺絲,使硬碟更加穩固。



重要 QNAP 建議您先鎖上硬碟托盤的螺絲再移動 NAS。

- 4. 將托盤裝入插槽。
 - a. 將托盤插入插槽。
 - **b.** 推入把手。
 - c. 將固定鎖向上推。



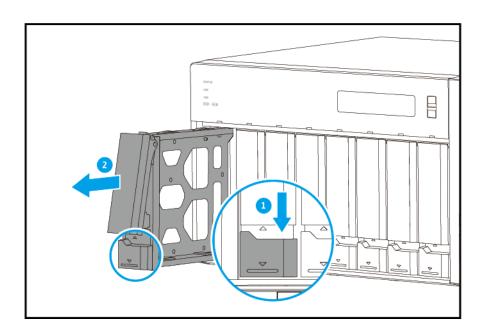
5. 打開 NAS 電源。

在 3.5 吋托盤上安裝 2.5 吋硬碟

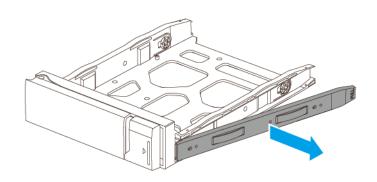


警告

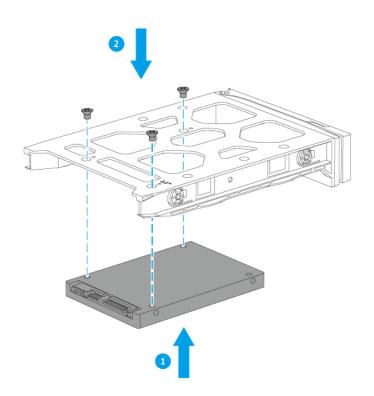
- 安裝硬碟會刪除硬碟上的所有資料。
- 請遵守靜電放電 (ESD) 程序以防止元件損壞。
- 1. 關閉 NAS 電源。
- 2. 取出硬碟托盤。
 - a. 將固定鎖向下推。
 - b. 拉把手以鬆開托盤。
 - c. 將托盤拉出。



- 3. 在托盤上安裝硬碟。
 - a. 取下硬碟托盤右側的固定面板。

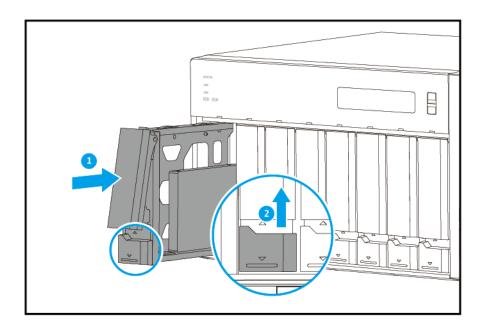


- **b.** 將硬碟放在托盤上,讓硬碟兩側的孔洞與托盤兩側的孔洞對齊。
- c. 鎖上螺絲。



4. 將托盤裝入插槽。

- a. 將托盤插入插槽。
- **b.** 推入把手。
- c. 將固定鎖向上推。



5. 打開 NAS 電源。

安裝 M.2 固態硬碟



警告

- 僅限合格人員可執行下列步驟。未遵照指示操作可能導致嚴重傷害或死亡。
- 請遵守靜電放電 (ESD) 程序以防止元件損壞。

•



轉動的風扇葉片:使雙手及身體其他部位遠離正在轉動的風扇葉片。

5



其他移動的元件:使雙手及身體其他部位遠離正在移動的其他元件。

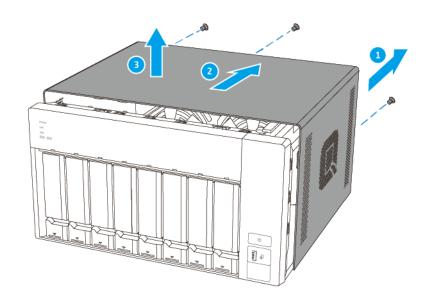


注意

- TVS-x72N 具有兩個 M.2 SSD 插槽。請前往 https://www.qnap.com/compatibility 查看相容的 M.2 SSD 清單。
- QNAP 建議在 M.2 SSD 控制器上安裝散熱器,以提高散熱效率並確保效能一致。
- 安裝非 QNAP 散熱器之前,請先確認其大小和形狀是否適合。
- 1. 關閉 NAS 電源。
- 2. 從電源插座拔下電源線。
- 3. 中斷所有連接線和外接裝置的連線。

4. 取下正面殼蓋。

- a. 取下用於固定機殼蓋和機殼的螺絲。
- b. 將殼蓋往後推。
- c. 向上提起機殼蓋,使它完全脫離機殼。



- 5. 將 NAS 右側朝下放置。
- 6. 在 M.2 SSD 控制器上安裝散熱器。
 - a. 找到 M.2 SSD 上的控制器。



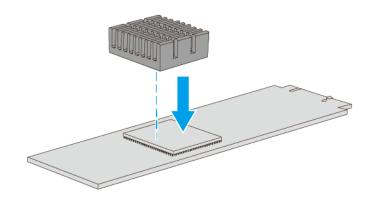
注意

控制器的位置會因 M.2 SSD 的型號與製造商而不同。如需詳細資訊,請參見相關文件或聯絡製造商。

b. 取下散熱器底部的保護膜。

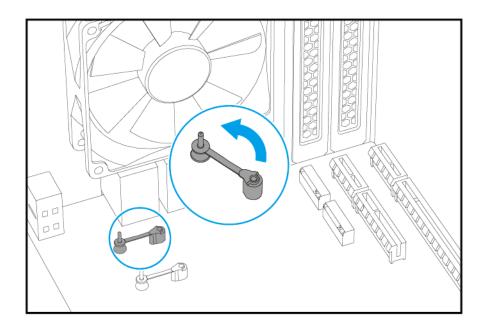


c. 在控制器上安裝散熱器。

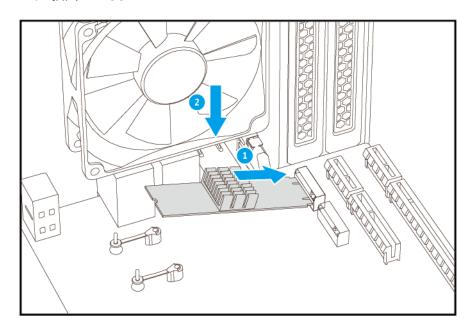


7. 安裝 M.2 SSD。

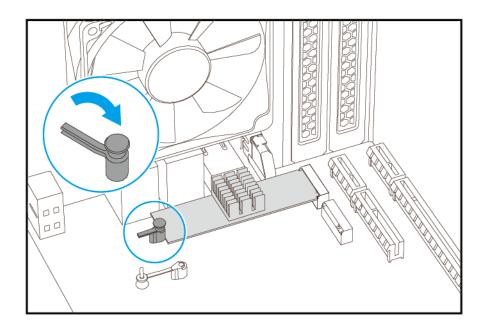
a. 拉出固定釘。



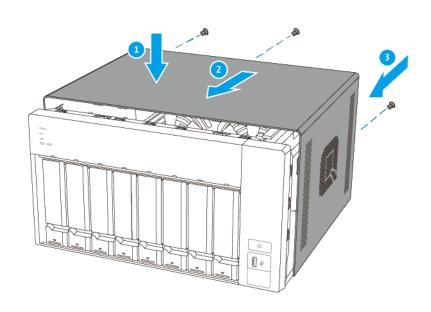
b. 插入 M.2 SSD。



c. 插入固定釘以鎖緊硬碟。



- 8. 將 NAS 正常擺放。
- 9. 裝上機殼蓋。
 - a. 將殼蓋向下推,使它完全接合機殼。
 - **b.** 將殼蓋往前推。
 - c. 在 NAS 的背面鎖上螺絲。



- 10. 連上所有連接線和外接裝置。
- 11. 將電源線插入電源插座。
- **12.** 打開 NAS 電源。

安裝擴充卡

TVS-x72N 支援特定的擴充卡,其中部分需要使用 QNAP PCIe 固定片。在公司網站購買的 QNAP 品牌擴充卡會隨附所有 QNAP NAS 型號適用的必要固定片。

如需支援的擴充卡與固定片詳細資訊,請前往 http://www.qnap.com/compatibility。



警告

- 僅限合格人員可執行下列步驟。未遵照指示操作可能導致嚴重傷害或死亡。
- 請遵守靜電放電 (ESD) 程序以防止元件損壞。



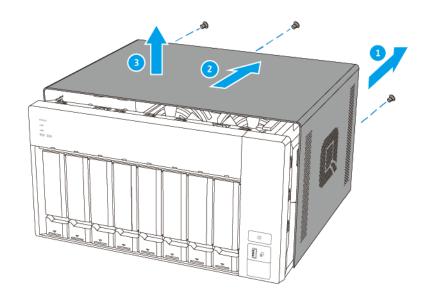


轉動的風扇葉片:使雙手及身體其他部位遠離正在轉動的風扇葉片。



其他移動的元件:使雙手及身體其他部位遠離正在移動的其他元件。

- 1. 在 QNAP 網站查看您型號適用的擴充卡和固定片。
 - a. 前往 www.qnap.com/compatibility。
 - b. 按一下 [依 NAS 搜尋] 。
 - c. 指定插槽數目以及您 NAS 的特定型號。
 - d. 在「裝置類型]底下,選擇元件或裝置類型。
 - e. 在清單中找出特定元件或裝置型號。
 - f. 按一下對應的[備註]圖示可查看詳細資訊。
- 2. 關閉 NAS 電源。
- 3. 從電源插座拔下電源線。
- 4. 中斷所有連接線和外接裝置的連線。
- 5. 取下機殼蓋。
 - a. 取下用於固定機殼蓋和機殼的螺絲。
 - b. 將殼蓋往後推。
 - c. 向上提起機殼蓋, 使它完全脫離機殼。



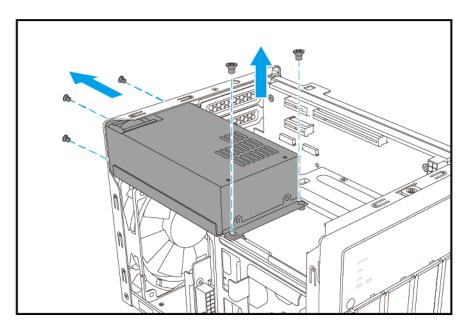
6. 取出電源供應器。



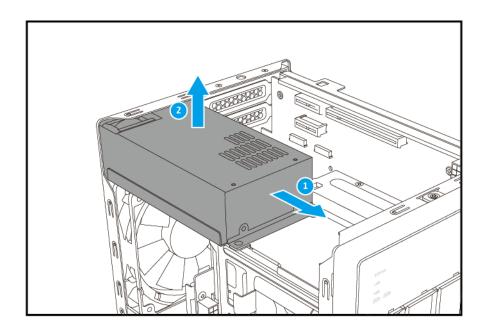
警告

為避免受傷或元件損壞,在觸碰硬碟及其他內部系統元件前,請先確認其是否已經冷卻。

- a. 拔掉電源纜線。
- b. 取下用於固定電源供應器和機殼的螺絲。

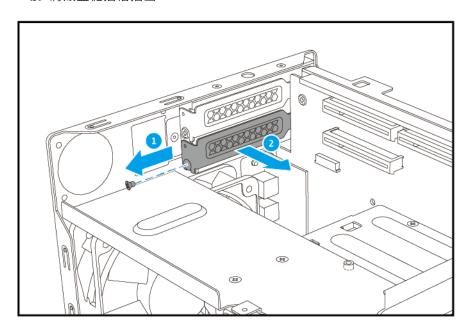


c. 將電源供應器從機殼取下。



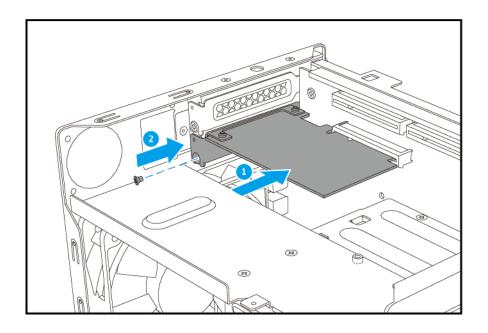
7. 取下 PCIe 插槽蓋。

- a. 取下用於固定殼蓋和機殼的螺絲。
- **b.** 將殼蓋從插槽抽出。



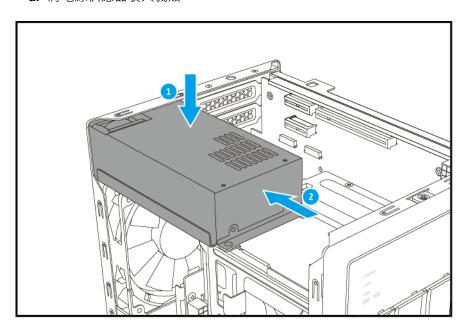
8. 安裝擴充卡。

- a. 握住擴充卡的邊緣。
- **b.** 將擴充卡插入插槽。
- c. 鎖上螺絲。

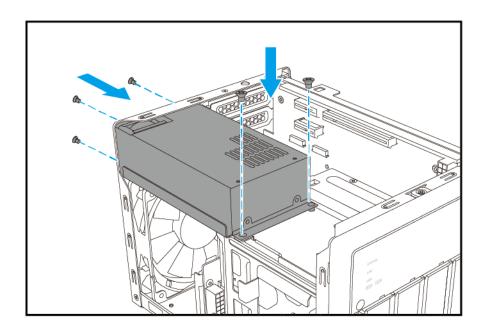


9. 安裝電源供應器。

a. 將電源供應器裝入機殼。



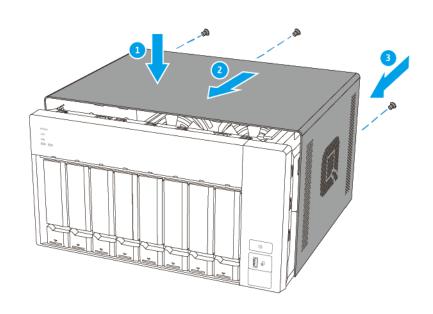
b. 鎖上用於固定電源供應器和機殼的螺絲。



c. 連接電源纜線。

10. 裝上機殼蓋。

- a. 將殼蓋向下推,使它完全接合機殼。
- **b.** 將殼蓋往前推。
- c. 在 NAS 的背面鎖上螺絲。



- 11. 連上所有連接線和外接裝置。
- 12. 將電源線插入電源插座。
- **13.** 開啟 NAS。

更換記憶體模組

TVS-x72N 具有兩個記憶體插槽。您可以透過升級記憶體模組來增加 NAS 的記憶體容量。使用兩個記憶體模 組時,僅用相同類型與容量的 QNAP 記憶體模組,以維持系統效能和穩定性。您可向授權經銷商購買 QNAP 記憶體模組。



警告

- 僅限合格人員可執行下列步驟。未遵照指示操作可能導致嚴重傷害或死亡。
- 請遵守靜電放電 (ESD) 程序以防止元件損壞。

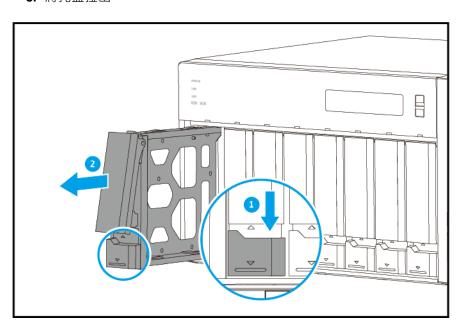


轉動的風扇葉片:使雙手及身體其他部位遠離正在轉動的風扇葉片。

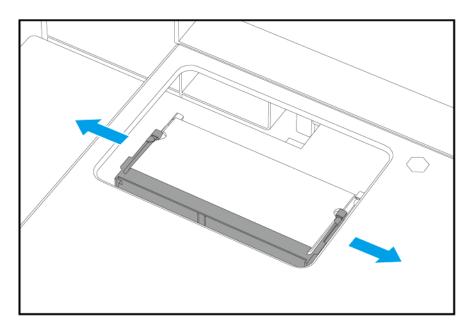


其他移動的元件:使雙手及身體其他部位遠離正在移動的其他元件。

- 1. 關閉 NAS 電源。
- 2. 從電源插座拔下電源線。
- 3. 中斷所有連接線和外接裝置的連線。
- 4. 從來源 NAS 取出每個硬碟托盤。
 - a. 將固定鎖向下推。
 - **b.** 將托盤把手往外拉。
 - c. 將托盤拉出。



- 5. 將 NAS 右側朝下放置。
- 6. 取下現有的記憶體模組。
 - a. 將固定夾同時往外推以鬆開記憶體模組。

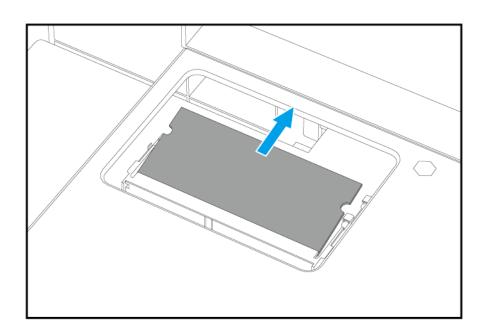


- **b.** 確認記憶體模組已向上傾斜且完全從插槽鬆脫。
- **c.** 握住記憶體模組的邊緣,然後小心地將它從插槽取出。



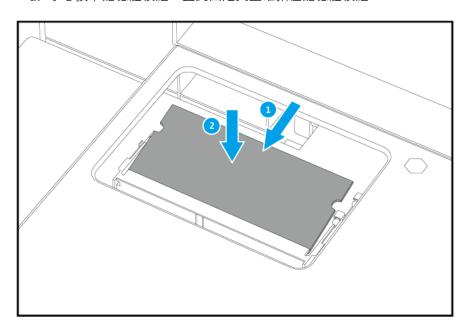
警告

若嘗試取下未完全鬆脫的記憶體模組,可能會損壞記憶體模組與主機板。

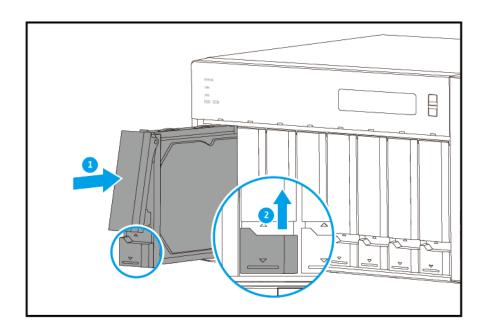


7. 安裝新的記憶體模組。

- a. 將接口與插槽的凸出部分對齊。
- **b.** 將記憶體模組插入插槽。
- c. 確認金屬接頭已完全插入插槽。
- d. 小心按下記憶體模組,直到固定夾正確扣住記憶體模組。



- 8. 將 NAS 正常直立。
- 9. 將每個硬碟托盤插回 NAS。
 - a. 將托盤推入硬碟插槽。
 - **b.** 推入把手。
 - c. 將固定鎖向上推。



- 10. 連上所有連接線和外接裝置。
- 11. 將電源線插入電源插座。
- **12.** 打開 NAS 電源。
- 13. 確認 NAS 可辨識記憶體模組。
 - a. 以管理員身份登入 QTS。
 - **b.** 前往[控制台] > [系統] > [系統狀態] > [硬體資訊]。
 - c. 查看[記憶體總容量]的值。

4. QTS 安裝

TVS-x72N 使用 QNAP QTS 作業系統。您可以使用下列其中一種方式安裝 QTS。

方法	說明	需求
Qfinder Pro 安裝(建議使用)	如果 NAS 已連接您的區域網路,您可以執行下列操作: • 使用 Qfinder Pro 定位 NAS。 • 完成 [智慧安裝導引] 精靈中的步驟。 如需詳細資訊,請參見:使用Qfinder Pro 安裝 QTS。 如果 NAS 已連接網際網路,您可以執行下列操作: • 掃描 NAS 上的 QR 碼。 • 登入 myQNAPcloud 帳號。 • 使用 CloudLink 遠端存取您的NAS。 • 完成 [智慧安裝導引] 精靈中的步驟。 如需詳細資訊,請參見:使用Cloud Key 安裝 QTS。	 電腦 網路線 Qfinder Pro 安裝程式 電腦或行動裝置。 網路線 myQNAPcloud 帳號 CloudKey
本機安装	如果 NAS 支援 HDMI 輸出,您可以執行下列操作: •將 NAS 連接至所需的硬碟。 •完成[智慧安裝導引]精靈中的步驟。 如需詳細資訊,請參見:使用 HDMI 連線安裝 QTS。	監控器HDMI 連接線USB 鍵盤或遙控器(並非所有型號皆有提供)

使用 Qfinder Pro 安裝 QTS



警告 安裝 QTS 會刪除硬碟上的所有資料。繼續操作前請先備份資料。

- 1. 打開 NAS 電源。
- 2. 將 NAS 連接至區域網路。
- 3. 在連接相同區域網路的電腦上執行 Qfinder Pro。



若要下載 Qfinder Pro,請前往 https://www.qnap.com/utilities。

4. 在清單中找到 NAS, 然後按兩下它的名稱或 IP 位址。

[智慧安裝導引]隨即在預設的網頁瀏覽器中開啟。

- 5. 按一下「啟動智慧安裝導引]。
- 6. 指定下列資訊:
 - NAS 名稱:指定 1 到 14 個字元的名稱。名稱支援使用英文字母(A 到 Z、a 到 z)、數字(0 到 9)以及連字號(-),但不能以連字號做結尾。
 - 密碼:指定 1 到 64 個字元的管理員密碼。密碼支援使用所有 ASCII 字元。
- **7.** 按一下 [下一步] 。
- 8. 指定時區、日期和時間。

提示

QNAP 建議連接至 NTP 伺服器,以確保 NAS 符合國際標準時間 (UTC) 的標準。

- **9.** 按一下[**下一步**]。
- 10. 選擇 [自動取得 IP 位址 (DHCP)]。
- **11.** 按一下[**下一步**]。
- 12. 選擇將用於存取 NAS 共用資料夾的裝置類型。
- **13**. 按一下[下一步]。
- **14.** 檢視設定值。
- **15.** 按一下**[套用]**。 確認訊息隨即出現。



警告

按一下「確認」後,系統會在安裝 QTS 前刪除硬碟的所有資料。

16. 按一下 [確認] 。 QTS 安裝完成。

使用 Cloud Key 安裝 QTS



警告

安裝 QTS 會刪除硬碟上的所有資料。繼續操作前請先備份資料。

- 1. 打開 NAS 電源。
- 2. 將 NAS 連接至網際網路。
- 3. 使用下列其中一種方式前往 QNAP 雲端安裝頁面:
 - 使用電腦前往 http://install.qnap.com/。
 - 使用行動裝置掃描 NAS 上的 QR 碼。

該網頁列出區域網路內所有未初始化的 QNAP NAS 裝置。

4. 在清單中找出自己的 NAS, 然後按一下[初始化]。



注意

如果未列出您的 NAS,請按照網頁上的指示指定 NAS 的 Cloud Key。

安裝精靈隨即在預設的網頁瀏覽器中開啟。

5. 建立帳號或登入 myQNAPcloud。



注意

您建立帳號之後,必須返回此頁面完成安裝步驟。

6. 指定 NAS 的 myQNAPcloud 裝置名稱。



注意

- 遠端存取 NAS 時,需要用到 myQNAPcloud 裝置名稱。
- 基於安全考量·NAS 將於初始化後停用 CloudLink 遠端連線服務。日後若要再度啟用,請透過區域網路連接至 QTS,然後安裝 CloudLink。
- 7. 按一下[**下一步**]。 [智慧安裝導引]隨即在預設的網頁瀏覽器中開啟。
- 8. 按一下[啟動智慧安裝導引]。
- 9. 指定下列資訊:
 - NAS 名稱:指定 1 到 14 個字元的名稱。名稱支援使用英文字母 (A 到 Z、a 到 z)、數字 (0 到 9)以及連字號 (-),但不能以連字號做結尾。
 - 密碼:指定 1 到 64 個字元的管理員密碼。密碼支援使用所有 ASCII 字元。
- **10.** 按一下[下一步]。
- 11. 指定時區、日期和時間。



提示

QNAP 建議連接至 NTP 伺服器,以確保 NAS 符合國際標準時間 (UTC) 的標準。

- 12. 按一下 [下一步]。
- 13. 選擇 [自動取得 IP 位址 (DHCP)] 。
- **14.** 按一下[下一步]。
- 15. 選擇將用於存取 NAS 共用資料夾的裝置類型。
- **16.** 按一下[下一步]。
- **17.** 檢視設定值。
- **18.** 按一下**[套用]**。 確認訊息隨即出現。



警告

按一下「確認」後,系統會在安裝 QTS 前刪除硬碟的所有資料。

19. 按一下 [確認] 。 QTS 安裝完成。

使用 HDMI 連線安裝 QTS



警告

安裝 QTS 會刪除硬碟上的所有資料。繼續操作前請先備份資料。

- 1. 將 HDMI 顯示器連接至 NAS。
- 2. 將 USB 鍵盤連接至 NAS,或準備 QNAP 紅外線(IR)遙控器(並非所有型號皆有提供)。
- 3. 打開 NAS 電源。 智慧安裝導引的 [歡迎] 畫面隨即出現。
- 4. 選擇[啟動智慧安裝導引]。
- 5. 選擇[**否‧略過這個程序。**] 若啟用多媒體功能‧您就能在[儲存與快照總管]中設定硬碟之後‧安裝多媒體應用程式。如需在 QTS 啟用多媒體功能的詳細資訊‧請參見《QTS 使用者指南》的〈系統管理〉一節。
- **6.** 選擇**[稍後設定]**。 如需設定硬碟的詳細資訊,請參見《QTS 使用者指南》的 < 儲存與快照總管 > 一節。
- 7. 檢視設定值。
- **8.** 按一下[**下一步**]。
- 9. 檢視設定值。
- **10.** 按一下[**下一步**]。 [**確認**]畫面隨即出現。



警告

■ **音 □** | 按一下 [**下一步**] 後,系統會在安裝 QTS 前刪除硬碟的所有資料。

11. 按一下[**下一步**]。 QTS 安裝完成。

5. 基本操作

本章介紹 NAS 的基本操作。

電源按鈕

操作	使用者動作	結果		
開啟電源	按一下按鈕。	NAS 電源開啟。		
關閉電源	按住按鈕 1.5 秒。	NAS 電源關閉。		
強制關機	按住按鈕5秒。	NAS 關機。		
		重要 僅在 NAS 沒有回應時使 用此方法。		

重設按鈕

操作	使用者動作	結果
系統基本重置	按住按鈕3秒。	以下設定將回復至預設值:
		• 系統管理員密碼:admin
		• TCP/IP 設定:
		• 透過 DHCP 自動取得 IP 位址設定。
		• 停用 Jumbo Frame。
		 若已啟用 Port Trunking (僅適用於支援多 LAN 的 型號)·系統將重設為 「Active Backup(網路容 錯)」模式。
		系統通訊埠:8080(系統服務 埠)
		• 安全等級:低(接受所有連線)
		• LCD 面板密碼:(空白)
		• VLAN:已停用
系統進階重置	按住按鈕 15 秒。	回復為出廠預設值。
		若要在系統進階重設後取得舊 有資料,請在 NAS 上重建先前 的資料夾結構。

USB 單鍵備份按鈕

您可以使用 [USB 單鍵備份] 按鈕‧將資料從 USB 裝置備份至 NAS‧或從 NAS 備份至 USB 裝置。

本功能支援增量備份。NAS 僅複製上次備份後修改或新增的檔案。

LCD 面板

您可在 LCD 面板上執行下列操作:

- 將 NAS 重新啟動與關機
- 設定或變更 LCD 面板密碼
- 檢視和設定網路設定值
- 檢視系統、實體硬碟以及磁碟區的相關資訊

檢視 TCP/IP 設定

您可以在 NAS 上檢視每個網路介面卡的下列設定:

- IP 位址
- 子網路遮罩
- 預設閘道
- 主要 DNS
- 次要 DNS
- 1. 按下 [Enter (進入)] 或 [Select (選擇)] 。 面板會顯示 NAS 名稱與 QTS 版本。
- 2. 按住[Enter(進入)]兩秒。 面板會顯示[Main Menu 1. TCP/IP(主選單 1. TCP/IP)]。
- 3. 按住 [Enter (進入)]。 面板隨即顯示第一個網路介面卡的 IP 位址。
- 4. 按下 [Select (選擇)] 以檢視下一個 TCP/IP 畫面。
- 5. 選擇性: 依需要重複執行步驟 4。

配置 TCP/IP 設定

您可以在 NAS 上配置每個網路介面卡的下列設定:

- IP 位址
- 子網路遮罩
- 預設閘道
- 主要 DNS
- 次要 DNS
- 1. 按下 [Enter (進入)] 或 [Select (選擇)]。 面板會顯示 NAS 名稱與 QTS 版本
- 2. 按住 [Enter (進入)] 兩秒

面板會顯示 [Main Menu 1. TCP/IP (主選單 1. TCP/IP)]。

- 3. 按住 [Enter (進入)]。 面板隨即顯示第一個網路介面卡的 IP 位址。
- 4. 重複按[Select(選擇)],直到面板顯示[Enter Network Settings(輸入網路設定)]。
- **5.** 按住**[Enter(進入)]**。 面板隨即顯示可配置的網路設定。
- **6.** 按下 [Select (選擇)] 和 [Enter (進入)] 以配置設定。

按鈕	用途		
Enter(進入)	• 顯示設定畫面。		
	• 移至設定畫面的下一個項目。		
Select(選擇)	• 移至選單的下一個項目。		
	• 修改設定畫面上的值。		

檢視硬碟資訊

LCD 面板可顯示 NAS 每個已安裝硬碟的溫度與容量。

- 1. 按下 [Enter (進入)] 或 [Select (選擇)]。 面板會顯示 NAS 名稱與 QTS 版本。
- 2. 按住[Enter(進入)]兩秒。 面板會顯示[Main Menu 1. TCP/IP(主選單 1. TCP/IP)]。
- 3. 重複按 [Enter (進入)] · 直到面板顯示 [Main Menu 2. Physical disk (主選單 2. 實體硬碟)] 。
- **4.** 按住 [**Enter** (**進入**)] 。 面板隨即顯示插槽 1 的硬碟溫度與容量。
- 5. 按住[Select(選擇)]。 面板隨即顯示下一個硬碟的溫度與容量。
- 6. 依需要重複執行步驟 5。

檢視磁碟區資訊

LCD 面板可顯示每個磁碟區的名稱與容量。

- 1. 按下 [Enter (進入)] 或 [Select (選擇)]。 面板會顯示 NAS 名稱與 QTS 版本。
- 2. 按住[Enter(進入)]兩秒。 面板會顯示[Main Menu 1. TCP/IP(主選單 1. TCP/IP)]。
- **3.** 重複按 [Enter (進入)] · 直到面板顯示 [Main Menu 3. Volume (主選單 3. 磁碟區)] 。
- **4.** 按住**[Enter(進入)]**。 面板隨即顯示第一個磁碟區的名稱與容量。
- 5. 按住 [Select (選擇)]。

面板隨即顯示下一個磁碟區的名稱與容量。

6. 選擇性: 依需要重複執行步驟 5。

檢視系統資訊

LCD 面板可顯示 CPU 溫度、系統溫度以及系統風扇轉速。

- 1. 按下 [Enter (進入)] 或 [Select (選擇)]。 面板會顯示 NAS 名稱與 QTS 版本。
- 2. 按住[Enter(進入)]兩秒。 面板會顯示[Main Menu 1. TCP/IP(主選單 1. TCP/IP)]。
- 3. 重複按 [Enter (進入)] · 直到面板顯示 [Main Menu 4. System (主選單 4. 系統)] 。
- **4.** 按住**[Enter(進入)]**。 面板隨即顯示 CPU 與系統溫度。
- 5. 按住[Select(選擇)]。 面板隨即顯示系統風扇轉速。

關閉 NAS 電源

- 1. 按下 [Enter (進入)] 或 [Select (選擇)] 。 面板會顯示 NAS 名稱與 QTS 版本。
- 2. 按住[Enter(進入)]兩秒。 面板會顯示[Main Menu 1. TCP/IP(主選單 1. TCP/IP)]。
- 3. 重複按 [Enter (進入)],直到面板顯示 [Main Menu 5. Shut down (主選單 5. 關機)]。
- **4.** 按住 [Enter (進入)]。 NAS 關機。

重新啟動 NAS

- 1. 按下 [Enter (進入)] 或 [Select (選擇)]。 面板會顯示 NAS 名稱與 QTS 版本。
- 2. 按住[Enter(進入)]兩秒。 面板會顯示[Main Menu 1. TCP/IP(主選單 1. TCP/IP)]。
- 3. 重複按 [Enter (進入)] · 直到面板顯示 [Main Menu 6. Reboot (主選單 6. 重新啟動)] 。
- **4.** 按住 [**Enter** (**進入**)]。 NAS 隨即重新啟動。

變更 LCD 密碼

指定 LCM 面板的密碼,以防止他人未經授權進行存取。

- **1.** 按下 [Enter (進入)] 或 [Select (選擇)] 。 面板會顯示 NAS 名稱與 QTS 版本。
- 2. 按住[Enter(進入)]兩秒。 面板會顯示[Main Menu 1. TCP/IP(主選單 1. TCP/IP)]。

- 3. 重複按 [Enter (進入)],直到面板顯示 [Main Menu 7. Password (主選單 7. 密碼)]。
- 4. 按住[Enter(進入)]。 [Change Password(密碼變更)]畫面隨即出現。
- 5. 按住[Enter(進入)]選擇[Yes(是)]。 [New Password(新密碼)]畫面隨即出現。
- **6.** 按下[Select(選擇)]和[Enter(進入)]來設定新密碼。
 - 設定密碼。
 - 指定1到8個字元的密碼。密碼僅限數字(0到9)。
 - 若不要設定密碼,密碼欄位請留空白。

按鈕	用途
Enter (進入)	在〔New Password(新密碼)〕畫面中移到下一個項目。
Select(選擇)	在〔New Password(新密碼)〕與〔Verify Password(確認密碼)〕畫面中變更數字。

7. 按下 [Enter (進入)] 。 NAS 即會儲存密碼。

LCD 錯誤訊息

系統訊息	描述
Sys. Fan Failed (系統風扇故障)	系統風扇異常。
Sys. Overheat (系統過熱)	系統過熱 。
HDD Overheat (硬碟過熱)	硬碟過熱。
CPU Overheat (CPU 過熱)	CPU 過熱。
Network Lost (網路中斷)	LAN1、LAN2、LAN3 及 LAN4 在容錯或負載平衡模式下中斷連線。
LAN1 Lost (LAN1 中斷)	LAN1 已中斷連線。
LAN2 Lost (LAN2 中斷)	LAN2 已中斷連線。
LAN3 Lost (LAN3 中斷)	LAN3 已中斷連線。
LAN4 Lost (LAN4 中斷)	LAN4 已中斷連線。
HDD Failure (硬碟故障)	硬碟異常。
Vol1 Full (Vol1 已滿)	磁碟區容量已滿。
HDD Ejected (硬碟已退出)	硬碟已退出。
Vol1 Degraded (Vol1 已降階)	Volume1 處於降階模式。
Vol1 Unmounted (Vol1 已卸載)	Volume1 已卸載。
Vol1 Nonactive (Vol1 未啟用)	Volume1 處於未啟用狀態。

LED 燈號

LED 燈號指示 NAS 開機時的系統狀態與相關資訊。下列 LED 燈號資訊僅適用於已正確安裝硬碟,且 NAS 已連線至網路的狀態下。

如需 LED 燈號的位置資訊,請參見前方面板。

LED 燈號	狀態	描述		
系統狀態	綠燈與紅燈每 0.5 秒交錯閃爍	• 硬碟正在格式化。		
		• NAS 正在初始化。		
		• 作業系統更新中。		
		• RAID 重建作業進行中。		
		• 線上 RAID 容量擴充進行中。		
		• 線上 RAID 組態遷移進行中。		
	紅燈	• 硬碟無效。		
		• 磁碟區容量已滿。		
		• 磁碟區容量將滿。		
		• 系統風扇異常。		
		• 資料存取(讀寫)錯誤。		
		• 硬碟壞軌。		
		• NAS 處於降階唯讀模式(RAID 5 或 RAID 6 有兩個硬碟故障·但資料仍可 讀取)。		
		• 硬體自我檢查錯誤		
	紅燈每 0.5 秒閃爍	NAS 處於降階模式(RAID 1、RAID 5 或 RAID 6 有一個硬碟故障)。		
	綠燈每 0.5 秒閃爍	• NAS 啟動中。		
		• NAS 未設定。		
		• 硬碟未格式化。		
	綠燈	NAS 已就緒。		
	關閉	所有硬碟處於待命模式。		
硬碟	紅燈閃爍	資料存取中並發生讀寫錯誤。		
	紅燈	硬碟讀寫錯誤。·		
	綠燈閃爍	資料存取中。		
	綠燈	硬碟可供存取。		
LAN	橘燈	其他裝置存取資料時發生讀寫錯誤。		
	橙燈閃爍	使用者正從網路存取 NAS。		

LED 燈號	狀態	描述
USB	藍燈每 0.5 秒閃爍	• 偵測到有 USB 裝置連接至前方的 USB 埠。
		正在移除連接至 NAS 正面 USB 埠的 USB 裝置。
		• 正在存取連接至 NAS 前方 USB 埠的 USB 裝置。
		正將資料複製到 USB 或 eSATA 裝置, 或從 USB 或 eSATA 裝置複製資料到 NAS。
	藍燈	偵測到有 USB 裝置連接至前方的 USB 埠。
	關閉	• 沒有偵測到任何 USB 裝置。
		NAS 已將資料複製到與前方 USB 埠連接的 USB 裝置,或已從與前方 USB 埠連接的 USB 裝置複製資料。

警示音

期間	頻率	描述	
短嗶(0.5 秒)	1聲	• NAS 啟動中。	
		• NAS 關閉中(軟體關機)。	
		• 使用者按下[重設]按鈕。	
		• 作業系統已更新。	
	3 聲	使用者嘗試將 NAS 資料複製到正面 USB 埠中的外接儲存裝置,但資料無法複製。	
長嗶 (1.5 秒)	3聲(每5分鐘)	系統風扇異常。	
	2 聲	• 磁碟區容量將滿。	
		• 磁碟區容量已滿。	
		• 硬碟進入降階模式。	
		• 使用者開始硬碟重建程序。	
		• 插入或抽出硬碟。	
	1 聲	• NAS 強制關機(硬體關機)。	
		• NAS 成功開機且可供使用。	

6. 疑難排解

本章介紹基本的疑難排解資訊。

強制 Qfinder Pro 或 myQNAPcloud 定位 NAS

如果在 QTS 安裝期間,Qfinder Pro 或 myQNAPcloud 找不到 NAS,表示硬碟或資料發生問題。

- 1. 關閉 NAS 電源。
- 2. 移除所有硬碟。
- 3. 打開 NAS 電源。
- 4. 使用 Qfinder Pro 或 myQNAPcloud 定位 NAS。
- 5. 將硬碟重新插入。
- 6. 繼續執行 QTS 安裝作業。

熱抽換故障硬碟

NAS 支援熱插拔下列情況的硬碟:

- RAID 1: 一個硬碟故障
- RAID 5: 一個硬碟故障
- RAID 6: 一或兩個硬碟故障
- **1.** 登入 QTS。
- 2. 前往[主選單] > [儲存與快照總管] > [儲存空間] > [磁碟/VJBOD]。
- 3. 找出故障的硬碟。
- 4. 準備一個新的硬碟,且容量至少與故障硬碟相同。
- 5. 將 NAS 的故障硬碟拔出。
- 6. 等待 20 秒或等到 NAS 發出兩次嗶聲。
- 7. 將故障硬碟從硬碟托盤取下。
- 8. 將新的硬碟插入硬碟托盤。
- 9. 安裝新的硬碟。 NAS 會發出兩次嗶聲。
- 10. 前往[主選單]>[儲存空間總管]>[儲存空間/快照]。
- 11. 找出新硬碟所在的磁碟區,然後確認其狀態為〔重建中〕。

支援和其他資源

QNAP 提供下列資源:

資源	URL
文件	https://docs.qnap.com
服務中心	https://helpdesk.qnap.com
下載	https://download.qnap.com
社群論壇	https://forum.qnap.com

7. 詞彙

CloudKey

指定至每個 NAS 裝置的唯一 8 位數代碼

CloudLink

讓您可透過網際網路存取 NAS 而不需配置複雜的連接埠轉址設定

myQNAPcloud

提供各種遠端存取服務,例如 DDNS 與 CloudLink

myQNAPcloud ID

用來註冊 myQNAPcloud 帳號的電子郵件地址

Qfinder Pro

QNAP 應用工具可讓您定位和存取區域網路內的 QNAP NAS 裝置

QTS

QNAP NAS 作業系統

8. 聲明

本章介紹擔保、免責聲明、授權以及聯邦法規的相關資訊。

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Version 3. 29 June 2007

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