QNAP

TS-832PX

TS-832PX-4G

使用手冊



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1. 重要資訊

原包裝

請保留原包裝及包裝材料。當產品需要退回或送修時請使用原包裝,以免損壞產品。

若因包裝不當導致運送中產品發生之損壞, QNAP 恕不提供退款或保固服務。

硬體瑕疵

如果您的 QNAP 產品有硬體瑕疵,請將產品寄回 QNAP 或 QNAP 授權服務中心,以進行維修或換貨。只要您或未經授權的第三方嘗試修復產品或執行產品維修流程,皆會導致產品保固失效。

對於因未獲授權進行修改或安裝不支援之第三方應用程式所導致的任何損害或資料遺失,QNAP 一概不予負責。

如需詳細資訊,請參見: QNAP 產品保固服務條款。

安全資訊

以下指示可協助確保人身安全及環境安全。請在執行任何操作前,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,並透過包括工具、鎖鑰或其他安全機制來控管。
- 唯有具技能且獲得授權的合格裝置管理員才能實際接觸裝置;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。

♪ 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。



請遵守靜電放電 (ESD) 程序以防止潛在傷害或元件損壞。

電源

⚠警告



為了降低電線走火或觸電風險,務必只將電源線連接至正確接地的電源插座。



為防止嚴重傷害事故發生,在安裝或更換系統元件前,經訓練的維修技術人員必須先從裝置上拔除所有電源供應器的電源線。

移動的零件

♪ 警告



轉動的風扇葉片:裝置接上電源時,請使身體部位遠離任何正在轉動的風扇葉 片。



移動的元件:使身體部位遠離其他任何正在移動的元件。

該裝置不適合在兒童可能在場的地方使用。

系統電池

♪ 警告



吞食危險

- 本產品可能含有鈕扣電池。
- 請將電池放在兒童接觸不到的地方。
- 如果吞下鈕扣型鋰電池,可能會在 2 小時內造成嚴重或致命的傷害。
- 如果您認為電池可能已被吞下或位於身體的任何部位,請立即就醫。
- 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使元件損壞。
- 請遵照當地法規或電池製造商的指示,妥善處置廢棄電池。
- 即使是使用過的電池也可能導致嚴重傷害或死亡。
- 致電當地毒物防治中心以取得治療資訊。
- 有關裝置中鈕扣電池的類型及電壓資訊,請參閱硬體規格表。

- 不得將非充電電池進行充電。
- 請勿強制放電、充電、拆解、加熱或焚燒。這樣做可能會因外洩、洩漏或爆炸導致化學灼傷的傷害。
- 確保依據極性 (+ 和 -) 正確地安裝電池。
- 請勿混合使用新舊電池或不同品牌或類型的電池,例如鹼性電池、碳鋅電池或充電電池。
- 取出長期未使用設備中的電池,並根據當地法規立即回收或進行處理。
- 務必完全固定電池盒。如果電池盒未關緊,請停止使用本產品,並取出電池,將其放在遠離兒童的地方。

機架滑軌

機架式機型可能需要機架滑軌才能安裝到伺服器機架或機櫃。

為確保設備及人身安全,在安裝機架滑軌並安裝裝置之前,請仔細閱讀機架滑軌的安裝說明。

若要檢查您的裝置是否為機架式裝置,請參閱硬體規格表。

⚠警告

- 當機架滑軌安裝在伺服器機架時,除非正在安裝或卸下裝置,否則請勿完全展開及鬆 開滑軌。
- 將滑軌完全展開並鬆開可能會導致重型設備掉落。這可能會導致設備損壞、破壞,甚至致命的傷害。
- 在準備將滑軌進行裝置安裝或拆卸之前,請仔細閱讀並確保您瞭解安裝說明。
- 切勿在安裝或拆卸裝置時,將任何物體放置在裝置或滑軌上,或增加裝置或滑軌任何額外的負荷。
- 在安裝裝置時,將裝置完全滑入伺服器機架,以完全鎖定滑軌,並將裝置固定到伺服 器機架。

2. 產品概觀

本章介紹 QNAP 裝置的基本資訊。

關於 TS-832PX

TS-832PX 搭載四核心 1.7 Ghz 處理器,可為小型企業提供具有經濟效益的儲存空間,適用於各種應用。 NAS 包含兩個 10 GbE SFP+ 乙太網路和 2.5 Gigabit RJ45 乙太網路埠,支援高速網路連線、提供高頻寬需求的應用並同時簡化文件的共享。為了提高儲存效能,TS-832PX 支援各種 PCIe 卡以提供 M.2 SATA/ NVMe SSD 快取。

硬體規格

警告

- 如果您的 QNAP 產品有硬體瑕疵,請將產品寄回 QNAP 或 QNAP 授權服務中心進行維修 或換貨。只要您或未經授權的第三方嘗試修復產品或執行產品維修流程,皆會導致產品保 固失效。
- 對於因未獲授權進行修改或安裝不支援之第三方應用程式所導致的任何損害或資料遺失, QNAP 一概不予負責。
- 如需詳細資訊,請參見: QNAP產品保固服務條款。

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.gnap.com。

訂購料號	СРИ	記憶體	電源供應器
TS-832PX-4G	Annapurna Labs Alpine AL324	4 GB	單一

元件	TS-832PX			
處理器				
CPU	Annapurna Labs AL324			
頻率	4 核心 1.7 GHz			
架構	ARM 64 位元			
加密引擎 支援				
記憶體				

元件	TS-832PX		
預載記憶體	4 GB RAM: 1 x 4 GB DDR4 SODIMM		
記憶體插槽	1 x DDR4 SODIMM		
	注意		
最大記憶體	16 GB RAM: 1 x 16 GB		
快閃記憶體 512 MB(雙啟動作業系統防護)			
儲存空間			
硬碟插槽	8 x 3.5 吋 SATA 6 Gbps		
	注意 TS-832PX 與 SATA 3 Gbps 回溯相容。		
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		
SSD 快取加速技術支援	支援		
330 K	支援		
網路	»AL		
10 Gigabit 乙太網路埠	2 x 10 GbE SFP+		

元件	TS-832PX				
2.5 Gigabit 乙太網路埠	2 x 2.5 GbE RJ45				
	重要 請避免將這些連接埠連接到電源設備或乙太網路供電連接埠,否則 可能會損壞突波保護功能。				
網路喚醒	有 (2.5 GbE RJ45)				
外接 I/O 埠和擴充插槽					
PCIe 插槽	1 x PCIe 2.0 x2				
USB 連接埠	正面: 1 x USB 3.2 Gen 1 Type-A				
	注意 此 USB 連接埠支援單鍵備份功能。				
	背面:2 x USB 3.2 Gen 1 Type-A				
介面					
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 329.3 x 280.8 mm (7.40 x 12.96 x 11.05 吋)				
淨重	重 6.38 kg (14.06 lbs)				
其他					
電源供應器	250W,100-240V AC、50V60 Hz,3.5A				
系統電池	CR2032 鋰電池 3V				
噪音值	19.6 dB(A)				

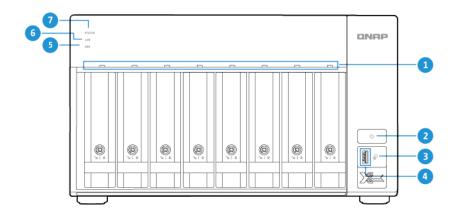
元件	TS-832PX	
風扇	系統:2 x 120 mm,12V DC 風扇	
操作溫度	0°C 到 40°C(32°F 到 104°F)	
相對濕度	・ 不凝結相對溼度:5% 至 95%・ 濕球溫度:27°C (80.6°F)	
安全鎖	Kensington 安全插槽	

包裝內容

項目	數量
TS-832PX	1
AC 電源變壓器	1
電源線	1
乙太網路線	1 x CAT5e
硬碟托盤鑰匙	2
3.5 吋硬碟用螺絲	32
2.5 吋硬碟用螺絲	24
快速安裝手冊 (QIG)	1

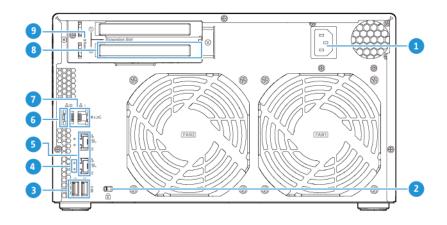
元件

前面板



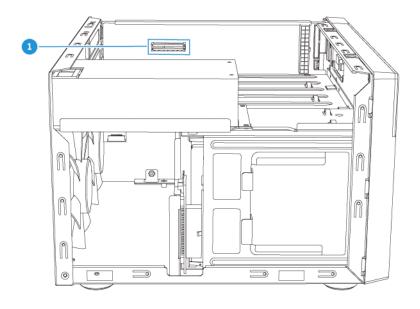
編號	元件	編號	元件
1	硬碟 LED 燈	5	USB LED 燈
2	電源按鈕	6	LAN LED 燈
3	USB 單鍵備份按鈕	7	狀態 LED 燈
4	USB 3.2 Gen 1 單鍵備份 Type-A 連接埠	_	_

後面板



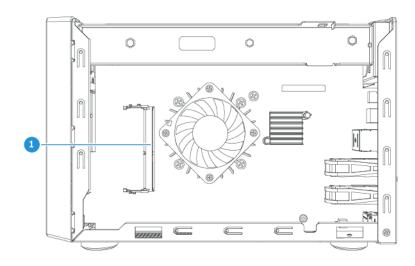
編號	元件	編號	元件
1	電源輸入	6	2.5 Gigabit RJ45 乙太網路埠 LED 燈
2	Kensington 安全插槽	7	2.5 Gigabit RJ45 乙太網路埠
3	USB 3.2 Gen 1 Type-A 連接埠	8	PCIe 2.0 x2 插槽
4	10 GbE SFP+ 乙太網路 LED 燈	9	重設按鈕
5	10 GbE SFP+ 乙太網路埠	_	_

左側面板



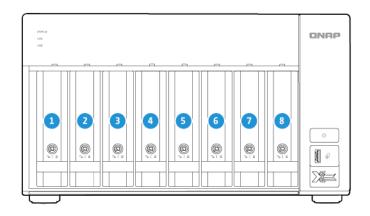
編號	元件	編號	元件
1	PCIe 2.0 x2 插槽	_	_

右側面板



編號	元件	編號	元件
1	記憶體插槽	_	_

硬碟編號



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 請前往 https://www.qnap.com/compatibility 查看相容的硬碟機型清單。 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 吋硬碟或固態硬碟
- **3.** 選擇性: 安裝擴充卡。 如需詳細資訊,請參見:安裝擴充卡。
- **4.** 選擇性: 更換記憶體模組。 如需詳細資訊,請參見:更換記憶體模組。
- 5. 選擇性: 連接擴充設備。 如需詳細資訊,請參見:安裝擴充設備。
- 6. 連接電源線與所有適用的網路線。
- 7. 開啟 NAS。
- 安裝 QTS。
 如需詳細資訊,請參見: QTS 安裝。
- **9.** 登入 QTS。

3. 安裝與設定

本章介紹特定硬體及韌體的安裝與設定步驟。

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

TS-832PX 與 3.5 吋硬碟、2.5 吋硬碟以及 2.5 吋固態硬碟相容。

在 3.5 吋托盤上安裝 3.5 吋硬碟

警告

- 安裝硬碟時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。



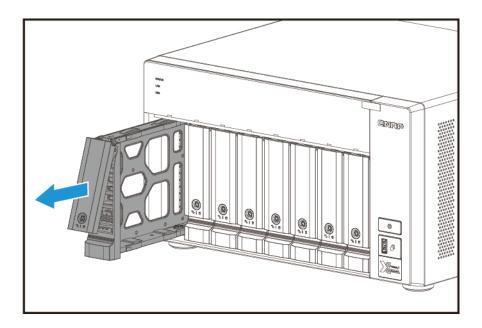
轉動的風扇葉片:使雙手及身體其他部位遠離正在轉動的風扇葉片。



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. 取出硬碟托盤。
 - a. 拉把手以鬆開托盤。

b. 將托盤拉出。



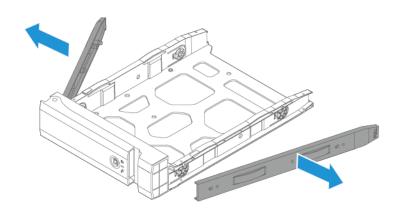
注意

預載的硬碟托盤會變成解鎖狀態。

重要

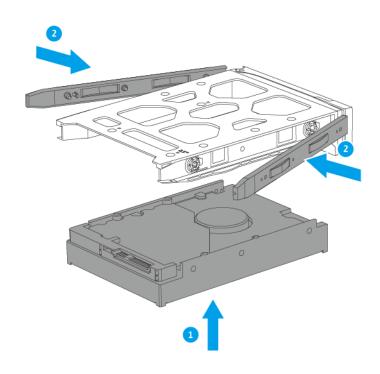
確認已將硬碟托盤鑰匙放置在安全位置。

- 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。

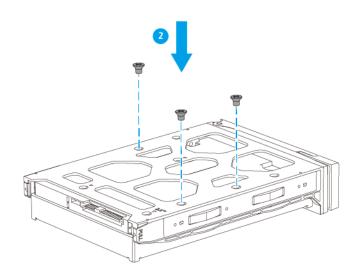
c. 裝上固定面板,將硬碟鎖定在托盤上。



d. 選擇性:鎖上螺絲。

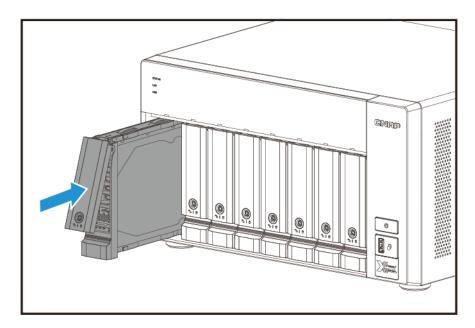
注意

若要運送裝有 HDD 的 NAS,請裝上螺絲以提供更好的保護。

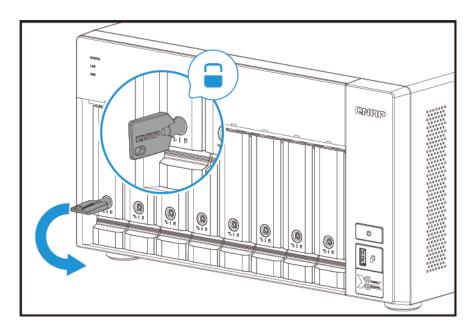


- 4. 將托盤裝入插槽。
 - a. 將托盤插入插槽。

b. 推入把手。



c. 將托盤上鎖。



5. 開啟 NAS。

在 3.5 吋托盤上安裝 2.5 吋硬碟或固態硬碟

警告

- 安裝硬碟時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。

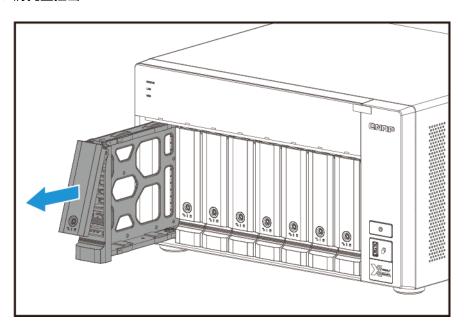


轉動的風扇葉片:使雙手及身體其他部位遠離正在轉動的風扇葉片。



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. 取出硬碟托盤。
 - a. 拉把手以鬆開托盤。
 - b. 將托盤拉出。



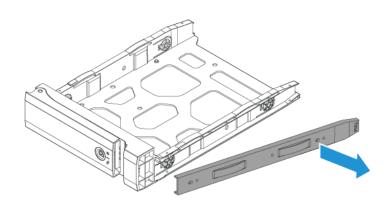
注意

預載的硬碟托盤會變成解鎖狀態。

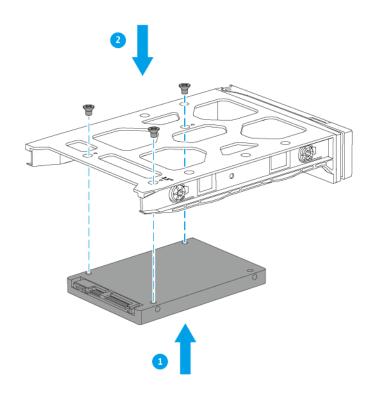
重要

確認已將硬碟托盤鑰匙放置在安全位置。

- 3. 在托盤上安裝硬碟。
 - a. 取下硬碟托盤右側的固定面板。

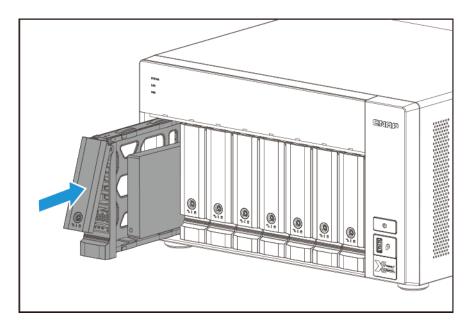


- b. 將硬碟放在托盤上,讓硬碟底部的孔洞與托盤底部的孔洞對齊。
- c. 鎖上螺絲。

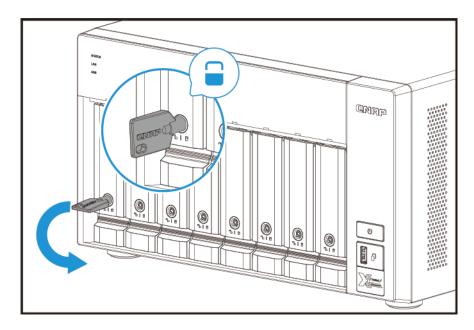


- 4. 將托盤裝入插槽。
 - a. 將托盤插入插槽。

b. 推入把手。



c. 將托盤上鎖。



5. 開啟 NAS。

安裝擴充卡

裝置支援特定的擴充卡,其中部分需要使用 QNAP PCIe 固定片。在公司網站所購買的 QNAP 品牌擴充卡,會隨附裝置適用的必要固定片。

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。



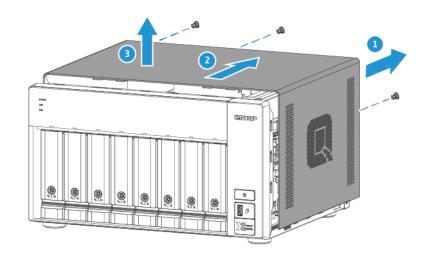
轉動的風扇葉片:使雙手及身體其他部位遠離正在轉動的風扇葉片。



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。

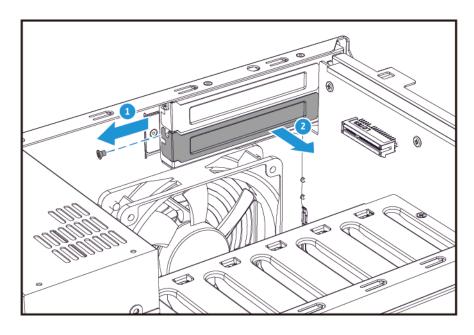
- 1. 請在 QNAP 網站上查看機型所適用的擴充卡和固定片。
 - a. 前往 www.qnap.com/compatibility。
 - b. 按一下 [依 NAS 搜尋] 。
 - c. 指定插槽數目以及您 NAS 的特定型號。
 - d. 在[裝置類型]底下,選擇元件或裝置類型。
 - e. 在清單中找出特定元件或裝置型號。
 - f. 選擇性: 按一下對應的 [備註] 圖示可查看詳細資訊。
- 2. 關閉裝置的電源。
- 3. 從電源插座拔下電源線。
- 4. 中斷所有連接線和外接裝置的連線。
- 5. 取下機殼蓋。
 - a. 鬆開螺絲。
 - b. 將殼蓋往後推。

c. 提起殼蓋,使其脫離裝置。

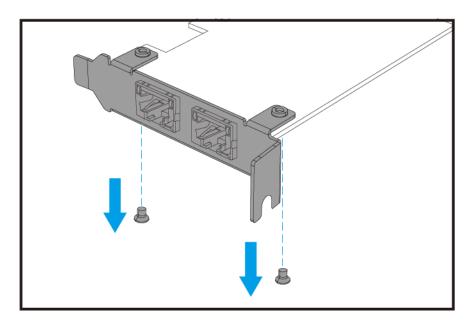


6. 取下 PCIe 蓋。

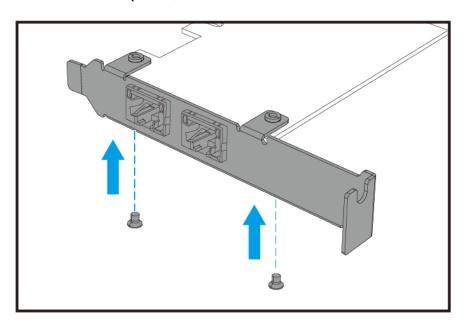
- a. 取下用於固定殼蓋和檔板的螺絲。
- b. 將殼蓋從插槽抽出。



- 7. 選擇性: 將 QNAP 固定片裝至擴充卡。
 - a. 取下現有固定片的所有螺絲。



- **b.** 小心地將固定片與擴充卡分開。
- c. 利用相同的螺絲將 QNAP 固定片裝至擴充卡。

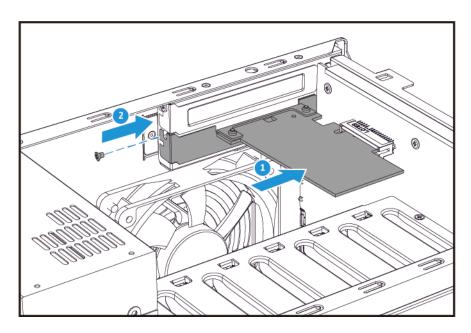


d. 確認固定片是否牢固不動。

8. 安裝擴充卡。

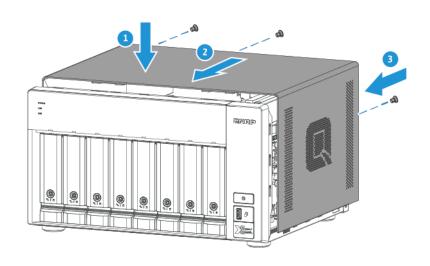
- a. 握住擴充卡的邊緣。
- **b.** 將擴充卡插入插槽。

c. 鎖上螺絲。



9. 裝上機殼蓋。

- a. 將殼蓋放在裝置上。
- b. 將殼蓋往前推。
- c. 鎖緊螺絲。



- 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. 開啟裝置。

更換記憶體模組

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。

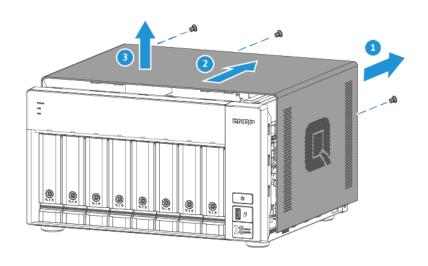


轉動的風扇葉片:使雙手及身體其他部位遠離正在轉動的風扇葉片。

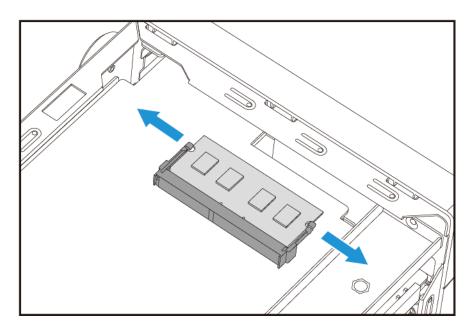


其他移動的元件:使雙手及身體其他部位遠離正在移動的其他元件。

- 1. 關閉裝置的電源。
- 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. 取下機殼蓋。
 - a. 鬆開螺絲。
 - b. 將殼蓋往後推。
 - c. 提起殼蓋,使其脫離裝置。



- 5. 選擇性: 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。

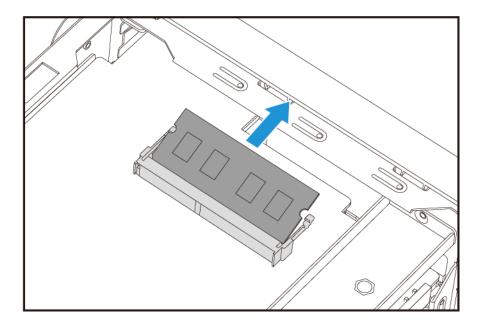


b. 確認記憶體模組已向上傾斜且完全從插槽鬆脫。

警告

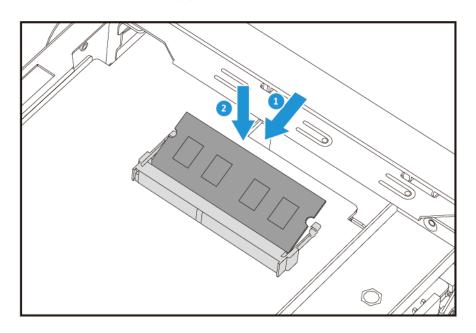
若嘗試取下未完全鬆脫的記憶體模組,可能會損壞記憶體模組與主機板。

- c. 握住模組的邊緣。
- d. 小心地將模組滑出插槽。



警告

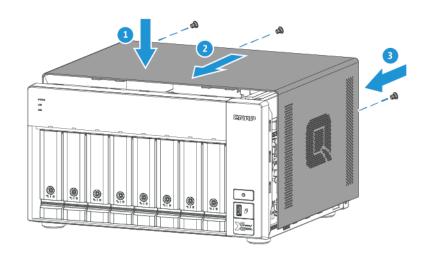
- 請勿觸碰內部元件,尤其是金屬接頭。
- 請勿彎折記憶體模組。
- 6. 安裝新的記憶體模組。
 - a. 將接口與插槽的凸出部分對齊。
 - b. 將記憶體模組插入插槽。
 - c. 確認金屬接頭已完全插入插槽。
 - d. 小心按下記憶體模組,直到固定夾正確扣住記憶體模組。



7. 裝上機殼蓋。

- a. 將殼蓋放在裝置上。
- b. 將殼蓋往前推。

c. 鎖緊螺絲。



- 8. 連上所有連接線和外接裝置。
- 9. 開啟裝置。
- 10. 確認裝置可辨識記憶體模組。
 - a. 以管理員身分登入 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。

安裝擴充設備

裝置支援 SATA JBOD 擴充設備和 USB 擴充設備。如需詳細資訊,請參見下方表格。

您可以向 QNAP 或授權經銷商購買儲存擴充配件。

如需詳細資訊,請瀏覽:https://shop.qnap.com。

如需相容擴充設備清單以及適用擴充設備的數量上限,請前往:http://www.qnap.com/go/compatibility-expansion。

擴充設備型號	說明	必要配件
TL-D400S	採用 SFF-8088 介面支援 SATA HDD/SSD	1 x SFF-8088 接頭線QXP-400eS-A1164 主機匯流排介面卡
TL-D800S	採用 SFF-8088 介面支援 SATA HDD/SSD	2 x SFF-8088 接頭線QXP-800eS-A1164 主機匯流排介面卡

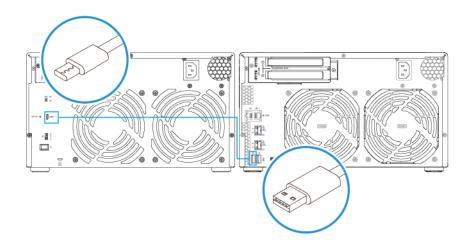
擴充設備型號	說明	必要配件
TL-D1600S	使用 SFF-8088 轉 SFF-8644 介面支援 SATA HDD/SSD	4 x SFF-8088 轉 SFF-8644 接頭線QXP-1600eS 主機匯流排介面卡
TL-R400S	採用 SFF-8088 介面支援 SATA HDD/SSD	1 x SFF-8088 接頭線QXP-400eS-A1164 主機匯流排介面卡RAIL-B02
TL-R1200S- RP	使用 SFF-8088 轉 SFF-8644 介面支援 SATA HDD/SSD	3 x SFF-8088 轉 SFF-8644 接頭線QXP-1600eS 主機匯流排介面卡RAIL-B02
TR-002	・使用 USB 3.2 Gen 2 Type-C 介面 ・支援 SATA 硬碟	USB 3.2 Gen 2 Type-A 轉 Type-C 連接線
TR-004	・ 使用 USB 3.2 Gen 1 Type-C 介面 ・ 支援 SATA 硬碟	USB 3.2 Gen 1 Type-A 轉 Type-C 連接線
TR-004U	・ 使用 USB 3.2 Gen 1 Type-C 介面 ・ 支援 SATA 硬碟	USB 3.2 Gen 1 Type-A 轉 Type-C 連接線RAIL-B02
TL-D800C	・ 使用 USB 3.2 Gen 2 Type-C 介面 ・ 支援 SATA 硬碟	USB 3.2 Gen 2 Type-A 轉 Type-C 連接線選用: QXG-10G2U3A PCIe 卡
TL-R1200C- RP	・ 使用 USB 3.2 Gen 2 Type-C 介面 ・ 支援 SATA 硬碟	USB 3.2 Gen 2 Type-A 轉 Type-C 連接線RAIL-B02

連接 USB 擴充設備

若要將裝置連接到 USB 擴充設備,需要使用 USB Type-A 轉 USB Type-C 的連接線。如需必要配件的詳 細資訊,請參見:安裝擴充設備。

- 1. 將擴充設備連接至 NAS。
 - a. 將 USB 連接線接至擴充設備上的 USB Type-C 連接埠。

b. 將 USB 連接線接至 NAS 上的 USB 3.2 Gen 1 Type-A 連接埠。



- 2. 開啟擴充設備的電源。
- 3. 確認 NAS 可辨識所有擴充設備。
 - a. 請以管理員身分登入 QTS。
 - **b.** 前往[主選單] > [儲存與快照總管] > [總覽] > [系統] 。
 - c. 確認畫面列出擴充設備。

連接 SATA 擴充設備

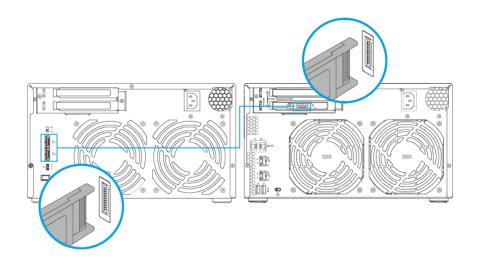
若要連接裝置至 SATA JBOD 擴充設備,必須先在 NAS 安裝主機匯流排介面卡。如需必要配件的詳細資訊,請參見:安裝擴充設備。

- 1. 關閉 NAS 電源。
- 2. 在 PCIe 插槽安裝主機匯流排介面卡。

重要

連接 SATA JBOD 擴充裝置至主機裝置需要 QNAP QXP 主機匯流排介面卡。第三方主機匯流排介面卡與 QNAP JBOD 擴充裝置不相容。

3. 請按照下列拓樸圖,將擴充設備連接到 NAS。



- 4. 開啟 SATA JBOD 擴充設備的電源。
- **5.** 開啟 NAS。
- 6. 確認 NAS 可辨識所有擴充設備。
 - a. 以管理員身分登入 QTS。
 - **b.** 前往[主選單] > [儲存與快照總管] > [總覽] > [系統] 。
 - c. 確認畫面列出擴充設備。

QTS 安裝

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:	・電腦 ・網路線 ・ Qfinder Pro 安裝程式

方法	說明	需求
雲端安裝	如果 NAS 已連接網際網路,您可以執行下列操作:	• 電腦或行動裝置
	• 掃描 NAS 上的 QR 碼。	• myQNAPcloud 帳號
	• 指定 Cloud Key。	• Cloud Key
	• 登入 myQNAPcloud 帳號。	
	• 使用 myQNAPcloud Link 遠端存取您的 NAS。	
	• 完成[智慧安裝導引]精靈中的步驟。	

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. 開啟 NAS。
- 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 Ofinder Pro。

注意

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。
- 5. 您可以執行下列動作。
 - 若要取得最新提供的版本,請按一下 [開始]。 安裝精靈隨即開始下載最新版本;下載完畢後,NAS 會重新啟動。如果沒有較新的版本,安 裝精靈將自動顯示 [智慧安裝導引]。
 - 若要安裝「開箱即用」(out-of-the-box)的版本,請按一下 [略過]。
- 6. 按一下 [啟動智慧安裝導引]。
- 7. 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。
- **8.** 按一下**[下一步**]。

9. 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。

- **10.** 按一下**[下一步**]。
- 11. 選擇 [自動取得 IP 位址 (DHCP)] 。
- **12.** 按一下**「下一步**]。
- 13. 選擇將用於存取 NAS 共用資料夾的裝置類型。
- **14.** 按一下**「下一步**]。
- 15. 檢視設定值。
- **16.**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。

17. 按一下**[確認]**。 QTS 安裝完成。

使用 Cloud Key 安裝 QTS

擎生

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. 開啟 NAS。
- 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.gnap.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

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 myQNAPcloud Link 遠端連線服務。日後若要再 度啟用,請透過 LAN 連接至 QTS,然後安裝 myQNAPcloud Link。
- **7.** 按一下「**下一步**]。
- 8. 您可以執行下列動作。
 - 若要取得最新提供的版本,請按一下【開始】。
 安裝精靈隨即開始下載最新版本;下載完畢後,NAS 會重新啟動。如果沒有較新的版本,安裝精靈將自動顯示【智慧安裝導引】。
 - 若要安裝「開箱即用」(out-of-the-box)的版本,請按一下 [略過]。
- 9. 按一下 [啟動智慧安裝導引]。
- 10. 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。
- **11.** 按一下**[下一步**]。
- 12. 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。

- **13.** 按一下**「下一步**]。
- 14. 選擇 [自動取得 IP 位址 (DHCP)] 。
- **15.** 按一下**[下一步**]。
- 16. 選擇將用於存取 NAS 共用資料夾的裝置類型。
- **17.** 按一下**「下一步**]。
- 18. 檢視設定值。
- **19.** 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。

20. 按一下 [確認]。 QTS 安裝完成。

4. 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。	裝置開機。			
關閉電源	按住按鈕 1.5 秒。	装置關機。			
強制關機	按住按鈕 10 秒。	裝置關機。			
		重要 請在裝置沒有回應時才使用此方法。			

重設按鈕

操作	使用者動作	結果		
系統基本	按住按鈕3	以下設定將回復至預設值:		
重設	秒。	系統管理員密碼:如需預設密碼的詳細資訊,請參閱此常見問題。		
		• 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 (允許所有連線)		
		• LCD 面板密碼:(空白)		
		• VLAN:已停用		
系統進階	按住按鈕 15 秒。	回復為出廠預設值。		
重設		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。

LED 燈號

LED 燈號指示裝置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,且裝置已連線至網路或主機的狀態下。

如需 LED 燈號的位置資訊,請參見:元件。

LED	狀態	說明
系統狀態	綠燈與紅燈每 0.5 秒交錯閃爍	 硬碟正在格式化。 装置正在初始化。 作業系統正在更新。 RAID 重建作業正在進行。 線上 RAID 容量擴充正在進行。 線上 RAID 組態遷移正在進行。 韌體正在更新。 重要 請勿在韌體更新期間拔下電源線或 USB 連接 線,也不要強制結束應用程式。
	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。 ・裝置處於降階唯讀模式(RAID 5 或 RAID 6 有兩個硬碟故障,但資料仍可讀取)。 ・硬體自我檢查發生錯誤。

LED	狀態	說明			
系統狀態	紅燈每 0.5 秒閃 爍	裝置處於降階模式(RAID 1、RAID 5 或 RAID 6 有一個硬碟故障)。			
	紅燈閃爍一次	裝置收到遙控器的指令。			
	綠燈	裝置已就緒。			
	綠燈每 0.5 秒閃 爍	装置未設定。硬碟未格式化。			
	橙燈閃爍	裝置處於睡眠狀態。			
	關閉	所有硬碟處於待命模式。裝置已關機。			
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	正在存取資料。			
	綠燈	硬碟已就緒			
	關閉	偵測不到硬碟。			
區域網路	橙燈	網路連線運作中。			
		注意 LAN LED 只能偵測裝置內建的乙太網路連接埠連接,它無法偵測網路擴充卡的乙太網路連接埠連接狀態。			
	橙燈閃爍	使用者正在從網路存取裝置。			
	關閉	裝置未連接至網路。			
10 Gigabit 乙太網	綠燈	網路執行速度為 10 Gbps			
路 (SFP+) 連線	關閉	無網路連線。			
10 Gigabit 乙太網 路 (SFP+) 活動	橙燈	網路連線已建立。			
哈 (SFF+) /心到/	橙燈閃爍	正在傳送資料。			

LED	狀態	說明
10 Gigabit 乙太網 路 (SFP+) 活動	關閉	無網路連線。
Multi-Gigabit 速度	綠燈	網路執行速度為 2.5 Gbps。
	橙燈	• 網路執行速度為 2.5 Gbps。
		• 網路執行速度為 100 Mbps。
	關閉	網路執行速度為 100 Mbps。
Multi-Gigabit 活動	橙燈	網路連線已建立。
	橙燈閃爍	使用者正在此網路存取裝置。
	關閉	無網路連線。
USB	藍燈	偵測到 USB 裝置已連接至 USB 單鍵備份埠。
	關閉	未偵測到 USB 擴充設備。

警示音

持續期間	頻率	說明		
語音通知	_	 NAS 啟動中。 NAS 關機中。 NAS 正在重設中(重設按鈕)。 NAS 已完成韌體更新。 注意 語音通知目前僅提供中文和英文。 		
短嗶(0.5 秒)	1	 NAS 啟動中。 按住重設按鈕 3 秒鐘後, NAS 將重設配置。 按住重設按鈕 10 秒鐘後, NAS 將重設配置並重新啟動。 作業系統已更新。 裝置正在啟動 USB 單鍵備份。 		

持續期間	頻率	說明
短嗶(0.5 秒)	2	USB 裝置已移除(USB 單鍵備份按鈕)。
	3	 偵測不到安裝的硬碟。 無法將 NAS 資料複製到連接正面 USB 埠的外接硬碟。
長嗶(1.5 秒)	3 聲(每 5 分 鐘)	電源發生錯誤。系統風扇異常。風扇模組已移除。
	2	 儲存池容量即將用盡。 儲存池容量已滿。 發生儲存池狀態錯誤。 磁碟區容量將滿。 磁碟區容量已滿。 USB 裝置正在移除 (USB 單鍵備份按鈕)。 磁碟區狀態發生錯誤。 插入或抽出硬碟。 iSCSI 容量即將用盡。
	1	NAS 強制關機(硬體關機)。NAS 成功開機且可供使用。
長嗶聲及短嗶聲	1 次長嗶聲及 2 次短嗶聲	JBOD 擴充設備已移除。

5. 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 Qfinder Pro 或 myQNAPcloud 在 QTS 安裝的期間找不到 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. 開啟 NAS。
- 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 於下列情況支援硬碟熱抽換:

RAID 類型	硬碟數量	情況			
RAID 1	2	一個硬碟故障			
RAID 5	≥ 3	一個硬碟故障			
RAID 6	≥ 4	一個或兩個硬碟故障			
RAID 10	≥ 4(必須是偶數)	兩個不同鏡像對中有一或兩個硬碟故障。			
RAID 50	≥ 6	每個子群組有一個硬碟故障。			
RAID 60	≥ 8	每個子群組有兩個硬碟故障。			

- 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. 將裝置的故障硬碟拔出。
- 6. 等待 20 秒或等待裝置發出兩次嗶聲。
- 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] > [儲存與快照總管] > [儲存空間] 。
- 11. 找出新硬碟所在的磁碟區,然後確認其狀態為〔重建中〕。

復原意外移除的正常硬碟

NAS 支援獨家 RAID 復原技術,若有硬碟意外斷線或遭到移除,使用者可以復原失效的 RAID 硬碟磁碟 區。使用者可以從降級模式復原擱置中的 RAID $1 \times RAID \times R$

磁碟/磁碟群組	RAID 復原支援	硬碟數量	遭移除的硬碟最大數目
單一	否	1	N/A
JBOD	是	≥ 2	
RAID 0	是	≥ 2	
RAID 1	是	2	1
RAID 5	是	≥3	
RAID 6	是	≥ 4	2
RAID 10	否	≥4(必須是偶數)	兩個不同鏡像對中有一或兩個硬碟故 障。
RAID 50	是	≥ 6	每個子群組有一個硬碟故障。
RAID 60	是	≥ 8	每個子群組有兩個硬碟故障。

支援和其他資源

QNAP 提供下列資源:

資源	URL
文件	https://docs.qnap.com
相容性列表	https://www.qnap.com/compatibility
NAS 遷移相容性	https://www.qnap.com/en/nas-migration

資源	URL	
擴充設備相容性	http://www.qnap.com/go/compatibility-expansion	
服務入口網站	https://service.qnap.com	
產品支援狀態	https://www.qnap.com/product/eol.php	
下載	https://download.qnap.com	
社群論壇	https://forum.qnap.com	
QNAP 配件商店	https://shop.qnap.com	

6. 詞彙

Cloud Key

指定至每個 NAS 裝置的唯一 8 位數代碼

myQNAPcloud Link

讓您透過網際網路存取 NAS,無需配置複雜的連接埠轉送設定

myQNAPcloud

提供各種遠端存取服務,例如 DDNS 與 myQNAPcloud Link

QNAP ID

讓您使用 myQNAPcloud 遠端存取及其他 QNAP 服務的使用者帳戶

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

7. 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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The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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- **b.** Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- **c.** Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- d. Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- **e.** Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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