JBOD 擴充裝置

TL-R1220Sep-RP
TL-R1620Sep-RP

使用者指南

文件版本: 1
15/12/2020

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1. 前言

關於本指南

本指南涵蓋 QNAPTL-R1220Sep-RP 和 TL-R1620Sep-RP SAS JBOD 擴充裝置的相關資訊，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。
	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 JBOD 擴充裝置的基本資訊。

關於 QNAP JBOD 擴充裝置

QNAP JBOD 擴充裝置的目的為提升 NAS 或電腦的容量及應用，並支援多項儲存應用程式。您可以獨立管理已安裝的硬碟，或透過主機裝置設置為軟體 RAID 群組。TL-R1220Sep-RP 和 TL-R1620Sep-RP 具有 12 個和 16 個 3.5 吋 SATA/SAS 12 Gbps 硬碟插槽和 4 個 SFF-8644 連接埠。

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 保固條款與條件。

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。

元件	TL-R1220Sep-RP	TL-R1620Sep-RP
儲存空間		
硬碟插槽	• 12 x 3.5 吋 SAS 12 Gbps • 12 x 3.5 吋 SAS 6 Gbps • 12 x 3.5 吋 SATA 6 Gbps	• 16 x 3.5 吋 SAS 12 Gbps • 16 x 3.5 吋 SAS 6 Gbps • 16 x 3.5 吋 SATA 6 Gbps
硬碟相容性	3.5 吋插槽： • 3.5 吋 SATA 硬碟 • 3.5 吋 SAS 硬碟 2.5 吋插槽： • 2.5 吋 SATA 硬碟 • 2.5 吋 SAS 硬碟 • 2.5 吋 SATA 固態硬碟	
熱抽換	支援	
外接 I/O 埠和擴充插槽		
SFF 連接埠	4 x SFF-8644	
介面		
按鈕	電源	
尺寸		
外型	2U 機架式	3U 機架式

元件	TL-R1220Sep-RP	TL-R1620Sep-RP
尺寸 (高 x 寬 x 深)	88.65 x 482.2 x 423.8 mm (3.49 x 18.98 x 16.68 in)	131.3 x 482.2 x 425.3 mm (5.17 x 18.98 x 16.74 in)
淨重	9.19 kg (20.26 lbs)	11.48 kg (25.30 lbs)
其他		
滑軌相容性	Rail-B02 **注意** • NAS 不含機架滑軌，必須另外購買。如需詳細資訊，請聯絡授權經銷商或前往 http://shop.qnap.com。	
電源供應器	2 x 300W，100-240V AC，50/60 Hz	2 x 550W，100-240V AC，50/60 Hz
噪音值	33.9 dB(A)	36 dB(A)
風扇	2 x 80 mm，12V DC 風扇	3 x 80 mm，12V DC 風扇
操作溫度	• 不凝結相對溼度：5% 至 95% • 濕球溫度：27˚C (80.6˚F)	

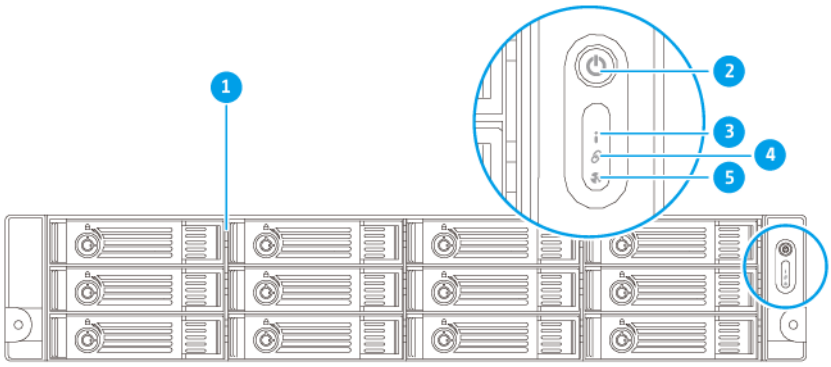
提示
請前往 https://www.qnap.com/compatibility 查看相容的硬碟機型清單。

包裝內容

項目	數量
JBOD 擴充裝置	1
電源線	1
SF-8644 連接器纜線	1
3.5 吋硬碟用螺絲	• TL-R1220Sep-RP：48 • TL-R1620Sep-RP：64
2.5 吋硬碟用螺絲	• TL-R1220Sep-RP：36 • TL-R1620Sep-RP：48
快速安裝手冊 (QIG)	1

元件

前方面板



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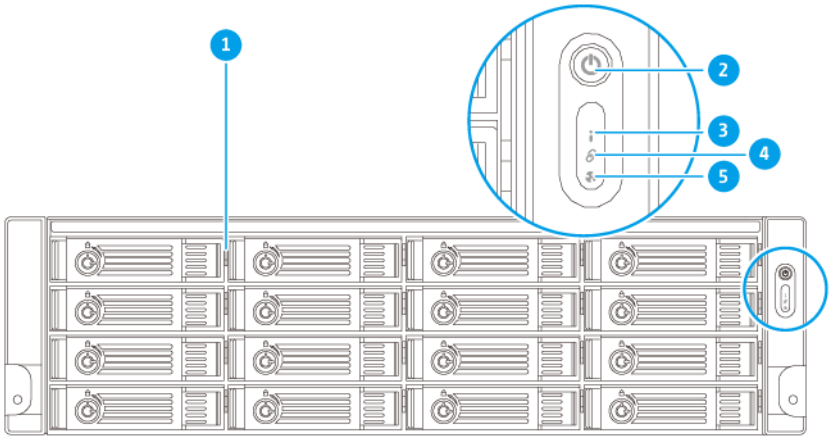

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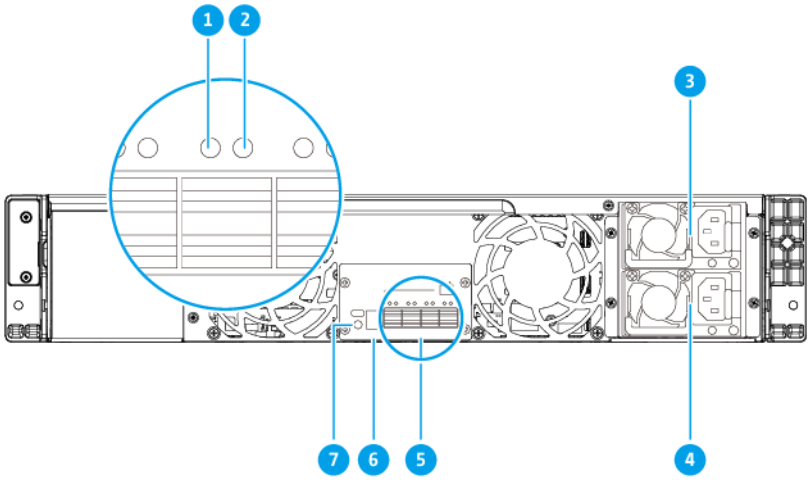
編號	元件	編號	元件
1	硬碟 LED 燈	4	連線 LED 燈
2	電源按鈕	5	風扇錯誤 LED 燈
3	狀態 LED 燈	-	-

背部面板



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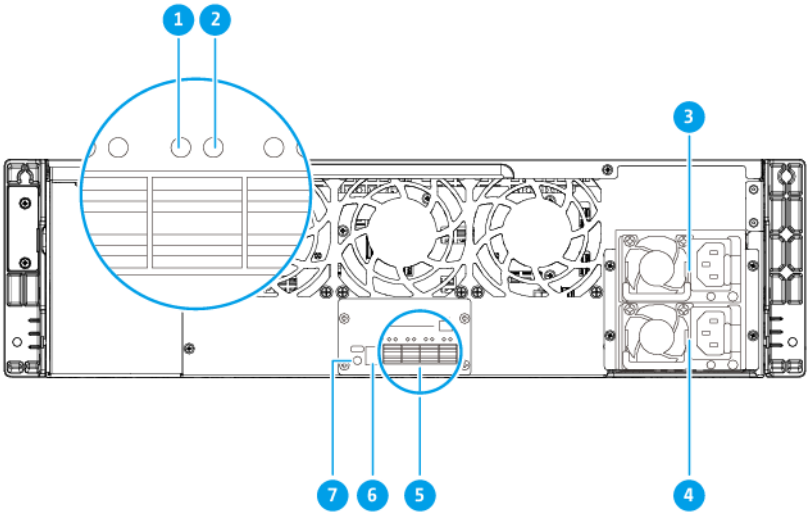

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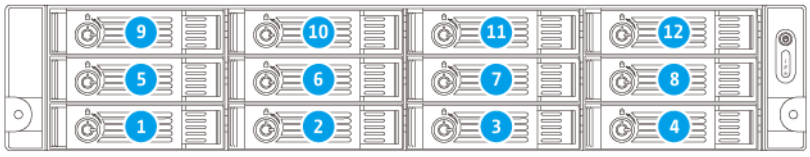
編號	元件	編號	元件
1	SAS 存取 LED 燈	5	SFF-8644 連接埠
2	SAS 連結 LED 燈	6	機箱 ID **注意** 當 JBOD 連接作業系統時，裝置會指定一個數字給 JBOD。在數字 9 以後，會依照字母順序指定一個字母：A、b、c、d、E、F、g。

編號	元件	編號	元件
3	電源埠 1	7	3.5 mm 輸出插孔 **注意** 此連接埠僅用於工程目的。
4	電源埠 2	-	-

硬碟編號



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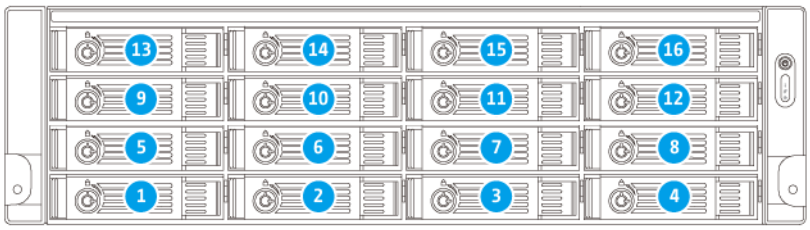

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安全資訊

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 進出管制 • 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。 • 唯有受過訓練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。
硬體和週邊設備	• NAS 或電腦 • 儲存硬碟 **提示** 請前往 https://www.qnap.com/compatibility 查看相容的硬碟機型清單。 • 一或多條 SF-8644 接頭纜線 • 主機匯流排介面卡 **重要** 連接 JBOD 擴充裝置至主機裝置需要 QXP-820S-B3408、QXP-1620S-B3616W 及 SAS-12G2E 主機匯流排介面卡。第三方主機匯流排介面卡可能與 QNAP JBOD 擴充裝置不相容。
工具	• 1 號或 2 號十字螺絲起子 • 防靜電腕帶

設定 JBOD 擴充裝置

重要
設定 JBOD 擴充裝置或安裝 JBOD 擴充裝置元件前，請詳閱 安全資訊 中所有安全要求及資訊。

1. 將 JBOD 擴充裝置放置於符合需求的環境。
   如需詳細資訊，請參見：安裝需求。
2. 將 JBOD 擴充裝置安裝到機架上。
   如需詳細資訊，請參見：機架滑軌。
3. 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

4. 連上電源線。
5. 連接 JBOD 擴充裝置至 NAS 或伺服器。
   如需詳細資訊，請參見下列主題：
   - 連接 JBOD 擴充裝置至 NAS
   - 連接 JBOD 擴充裝置至伺服器
6. 開啟 JBOD 擴充裝置。

3. 硬體安裝

本節介紹如何安裝硬碟、連接 JBOD 擴充裝置到 NAS 或伺服器、網路設置，以及熱抽換備援電源供應器。

安裝硬碟

QNAP JBOD 擴充裝置與 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

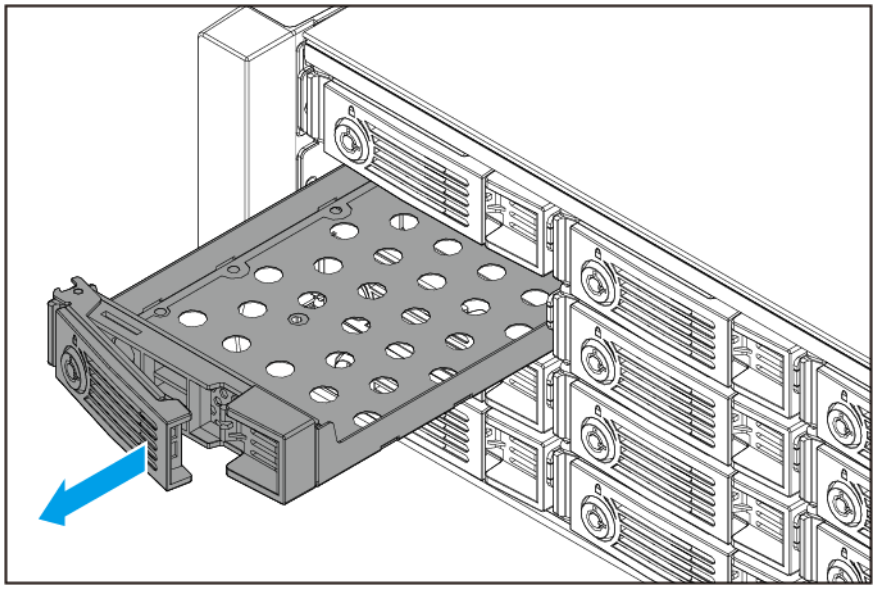
-

  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。

-

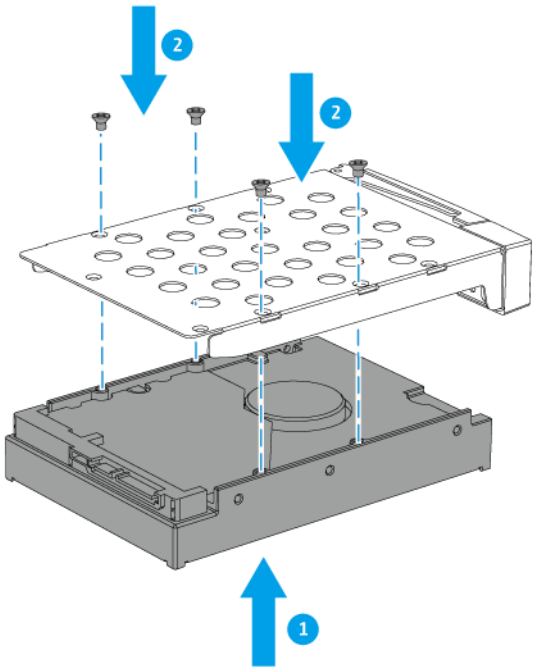
  其他移動的元件：使雙手及身體其他部位遠離正在移動的其他元件。

1. 關閉 JBOD 裝置的電源。
2. 取出硬碟托盤。
   a. 拉把手以鬆開托盤。
   b. 將托盤拉出。



3. 在托盤上安裝硬碟。
   a. 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。

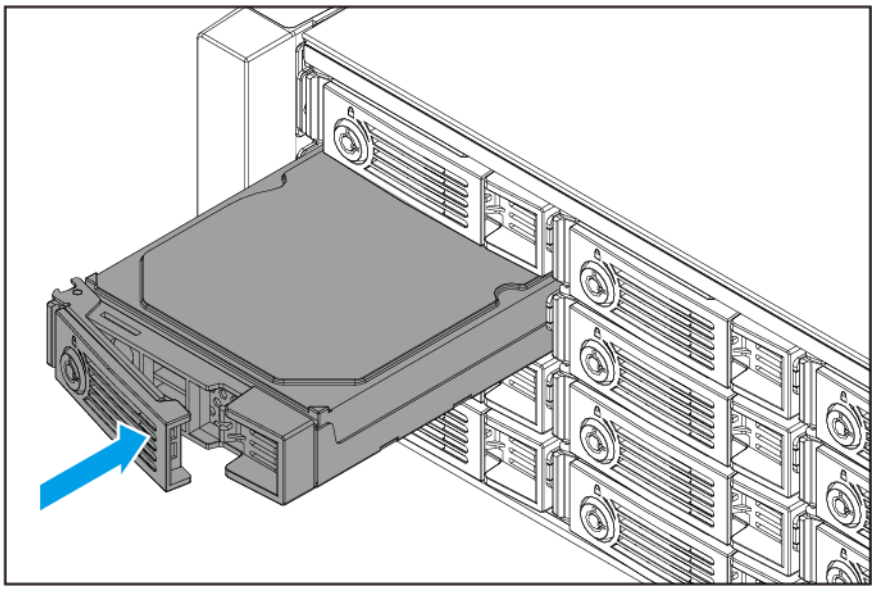
b. 鎖上螺絲。



4. 將托盤裝入插槽。

a. 將托盤插入插槽。

b. 推入把手。



5. 開啟 JBOD 裝置的電源。

注意
JBOD 擴充裝置可能需要長達 30 秒的時間，才能偵測到新的裝置。

在 3.5 吋托盤上安裝 2.5 吋硬碟或固態硬碟

警告

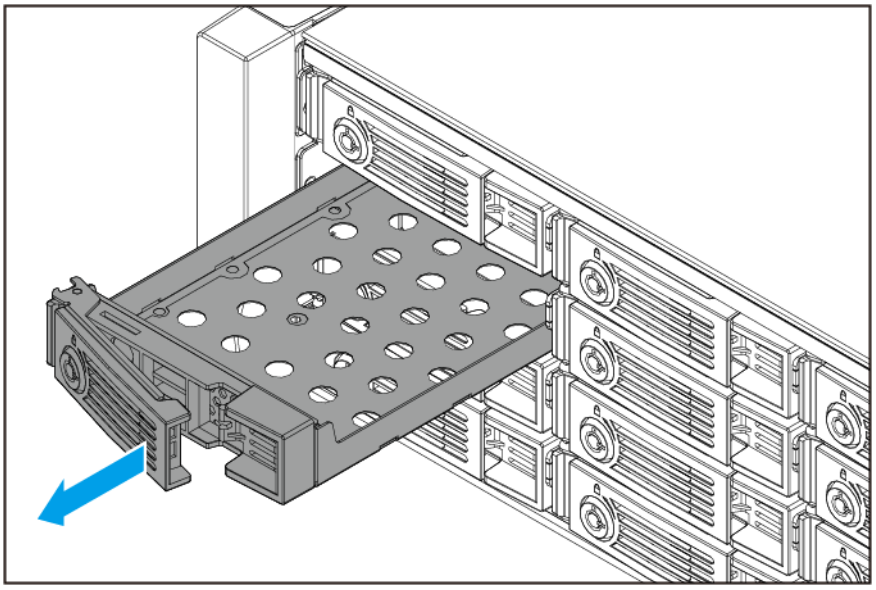
-

  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。

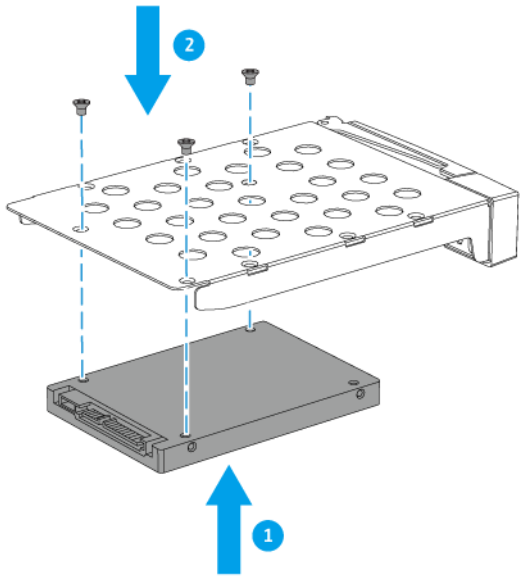
-

  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。

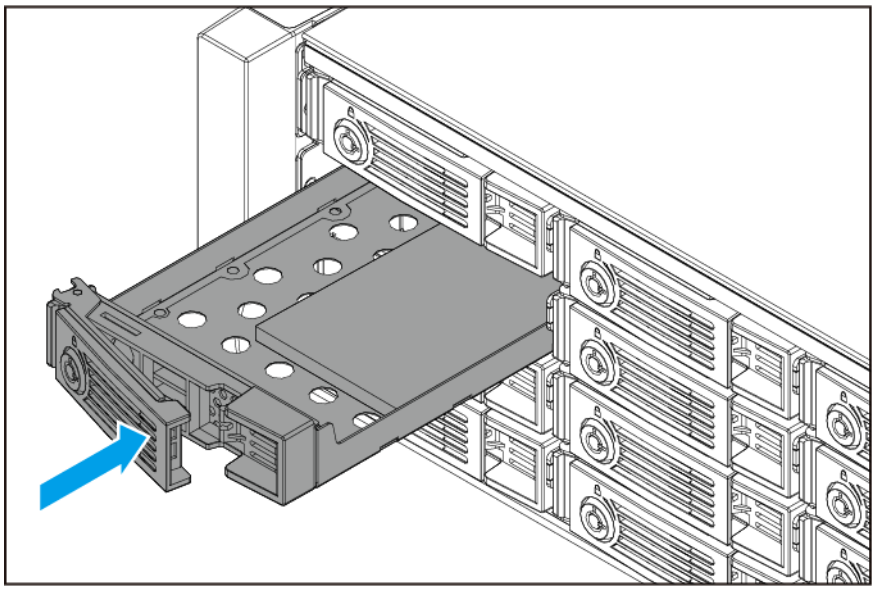
1. 關閉 JBOD 裝置的電源。
2. 取出硬碟托盤。
   a. 拉把手以鬆開托盤。
   b. 將托盤拉出。



3. 在托盤上安裝硬碟。
   a. 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。
   b. 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。



5. 開啟 JBOD 裝置的電源。

注意
JBOD 擴充裝置可能需要長達 30 秒的時間，才能偵測到新的裝置。

連接 JBOD 擴充裝置至 NAS

QTS 最多可支援八台 JBOD 擴充裝置。

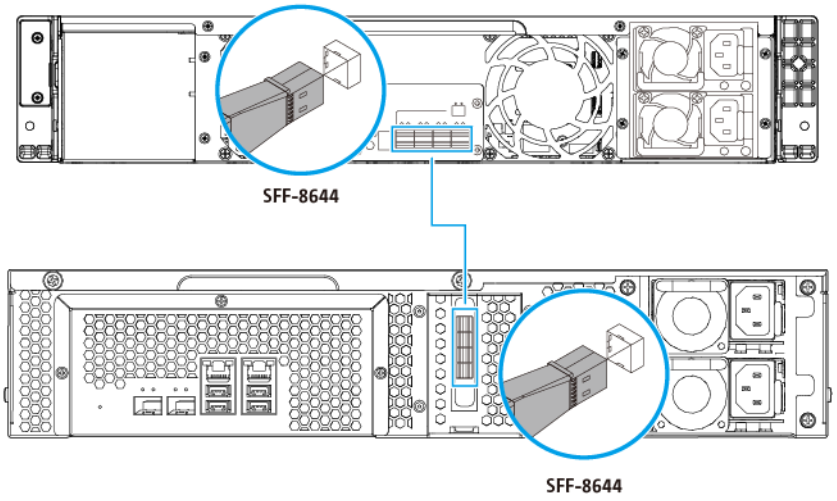
NAS 必須執行 QuTS hero h4.5.1 或 QTS 4.5.1（或之後的版本）。

1. 關閉 NAS。
2. 關閉 JBOD 擴充裝置。
3. 連接 JBOD 擴充裝置至 NAS。
   a. 將一條或以上的 SFF-8644 接頭纜線連接至 JBOD 擴充裝置的 SFF-8644 連接埠。
   b. 將一條或以上的 SFF-8644 接頭纜線連接至安裝於 NAS 的主機匯流排介面卡的 SFF-8644 連接埠。

注意

- 參照 NAS 使用者指南的硬體安裝章節中關於安裝擴充卡之指示。
- SFF 纜線之最大建議長度為 1 公尺。使用更長的纜線可能降低訊號或效能。

重要
連接 JBOD 擴充裝置至主機裝置需要 QNAPQXP-820S-B3408, QXP-1620S-B3616W 及 SAS-12G2E 主機匯流排介面卡。



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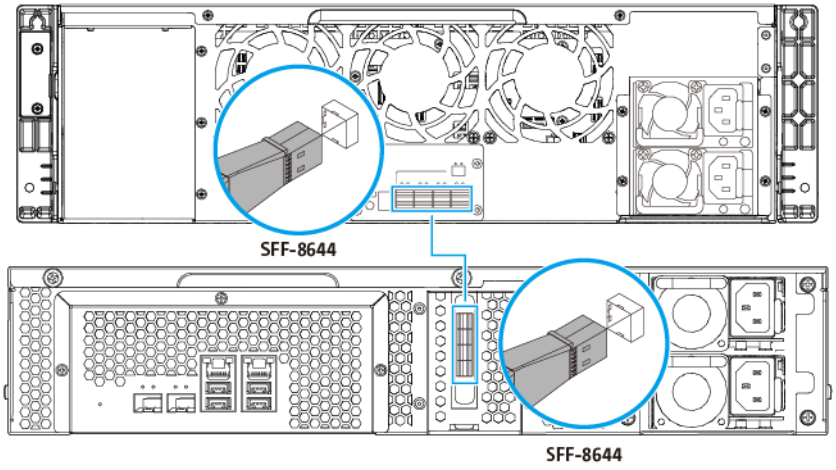

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4. 開啟 JBOD 擴充裝置。
5. 開啟 NAS。
6. 確認 NAS 可辨識 JBOD 擴充裝置。
   a. 請以管理員身分登入 QTS。
   b. 前往 [**主選單**] > [**儲存與快照總管**] > [**總覽**] > [**儲存空間**]。
   c. 確認畫面列出 JBOD 擴充裝置。

注意
NAS 可能需要長達 30 秒的時間，才能偵測到 JBOD 擴充裝置及已安裝的硬碟。

連接 JBOD 擴充裝置至伺服器

一台 Windows 或 Linux 伺服器可支援不限數量的 JBOD 擴充裝置。

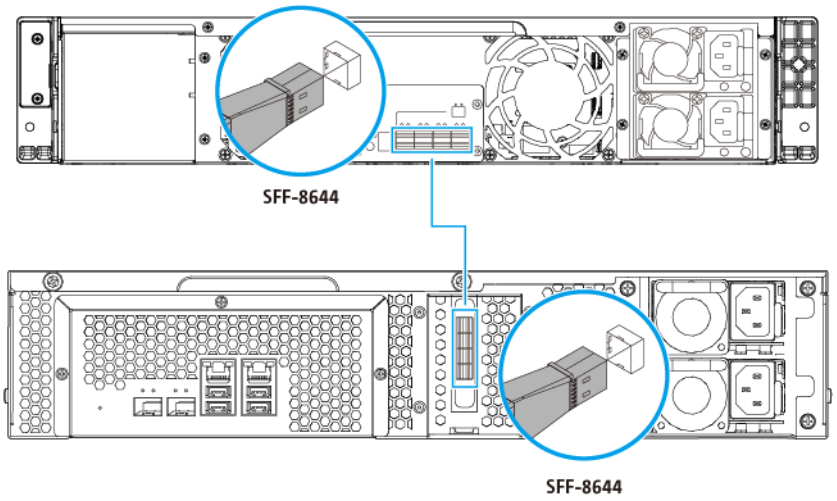
1. 關閉伺服器。
2. 關閉 JBOD 擴充裝置。
3. 連接 JBOD 擴充裝置至伺服器。
   a. 將一條或以上的 SFF-8644 接頭纜線連接至 JBOD 擴充裝置的 SFF-8644 連接埠。
   b. 將一條或以上的 SFF-8644 接頭纜線連接至安裝於 NAS 的主機匯流排介面卡的 SFF-8644 連接埠。

注意

- 參照 NAS 使用者指南的硬體安裝章節中關於安裝擴充卡之指示。
- SFF 纜線之最大建議長度為 1 公尺。使用更長的纜線可能降低訊號或效能。

重要
連接 JBOD 擴充裝置至主機裝置需要 QNAPQXP-820S-B3408, QXP-1620S-B3616W 及 SAS-12G2E 主機匯流排介面卡。

注意
第三方主機匯流排介面卡與 QNAP JBOD 擴充裝置相容。如需詳細資訊，請瀏覽：https://www.qnap.com/en/compatibility/。



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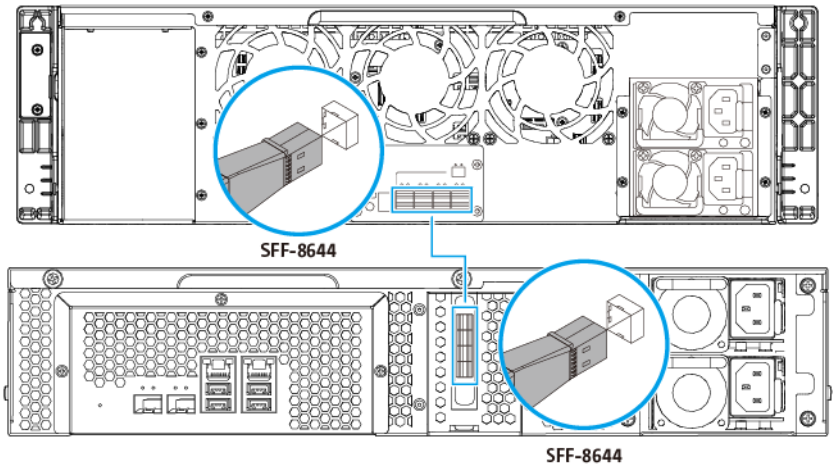

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c. 連接額外 JBOD 擴充裝置至伺服器。

4. 開啟 JBOD 擴充裝置。
5. 開啟伺服器。

6. 確認伺服器已辨識 JBOD 擴充裝置。

   a. 前往伺服器的硬碟管理工具程式，或開啟 Windows 或 Linux 中的 QNAP External RAID Manager。

> **注意**
> 若要下載 QNAP JBOD Manager，請前往 https://download.qnap.com。

   b. 確認畫面列出 JBOD 擴充裝置。

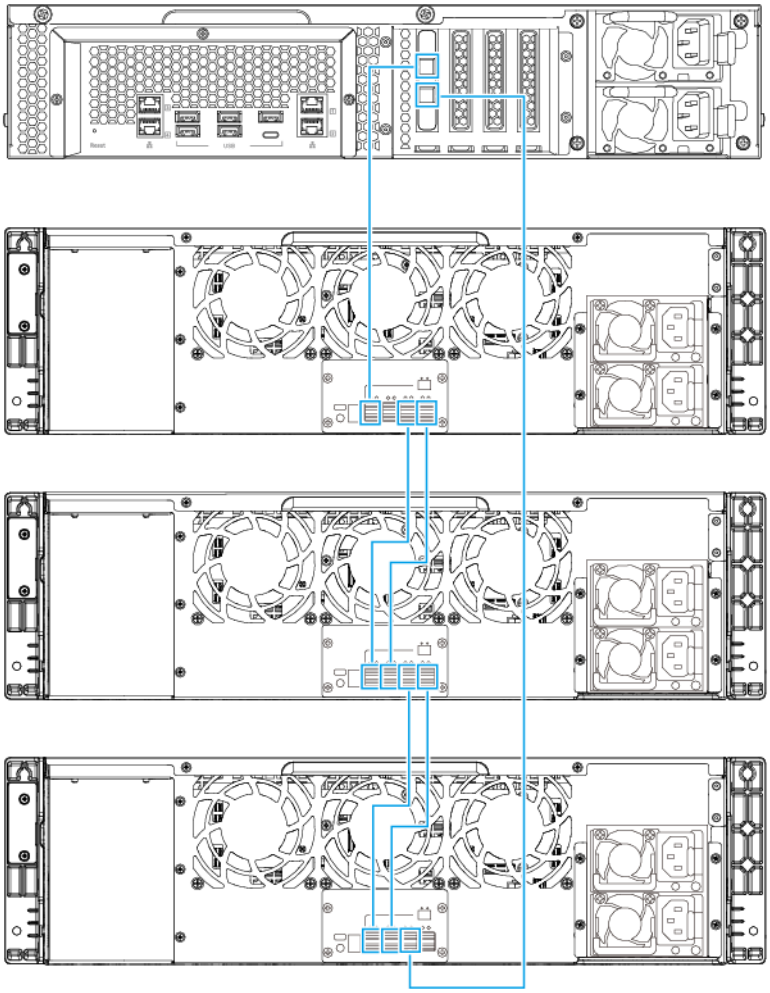
網路設置

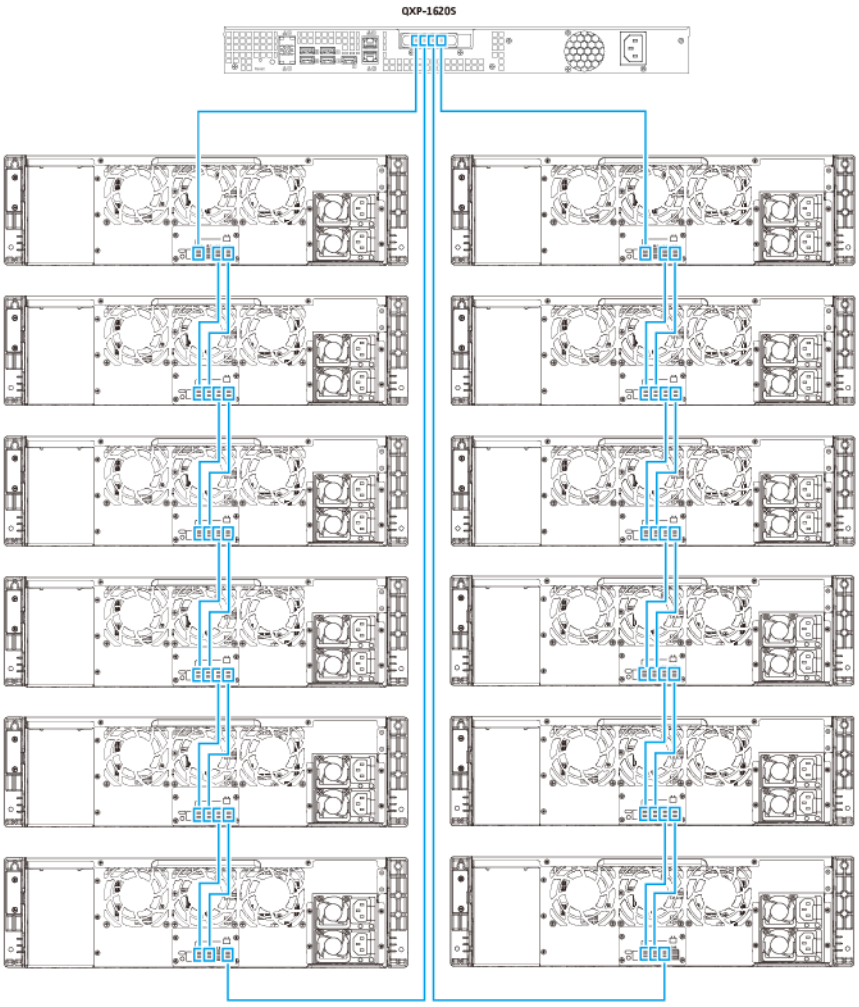
本章節針對 QNAP JBOD 擴充裝置的多種網路設置提供相關資訊。

多路徑 I/O 的網路設置

多路徑 I/O (MPIO) 是一種容錯技術，可在伺服器與儲存裝置（如 NAS）之間建立多條實體網路路徑。若有任一條網路路徑因交換器、連接線或網卡故障而中斷，伺服器可以透過其他網路路徑傳輸 I/O 流量，以免儲存裝置停機。部署多路徑 I/O 可達到更高的可用性。

以下圖例說明多路徑 I/O 的實作方式：

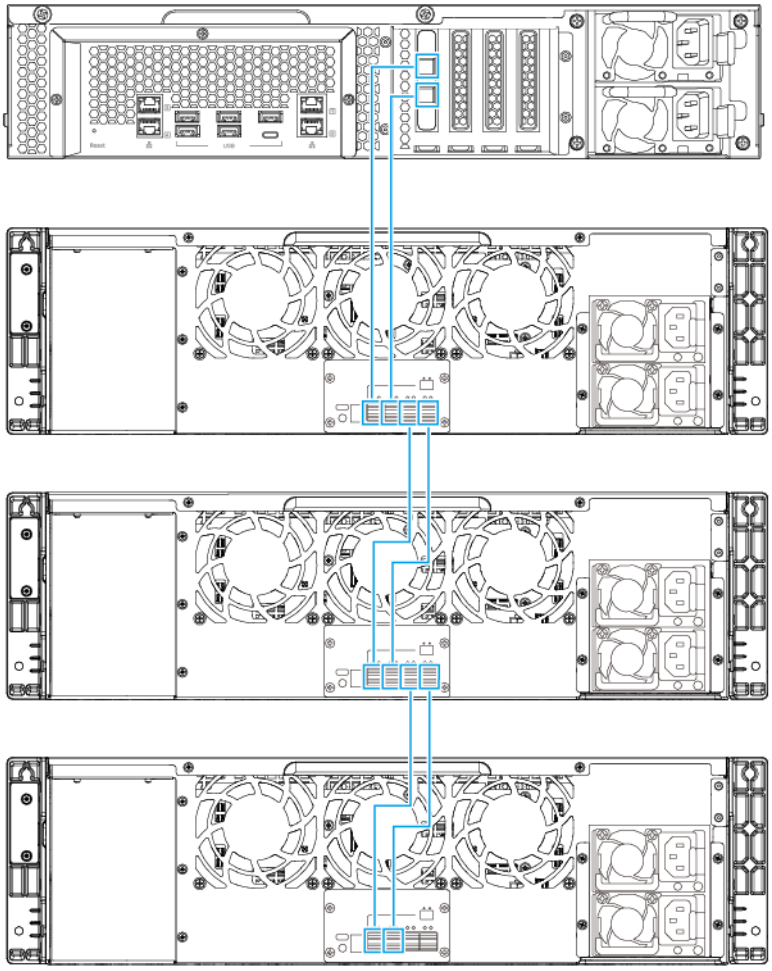


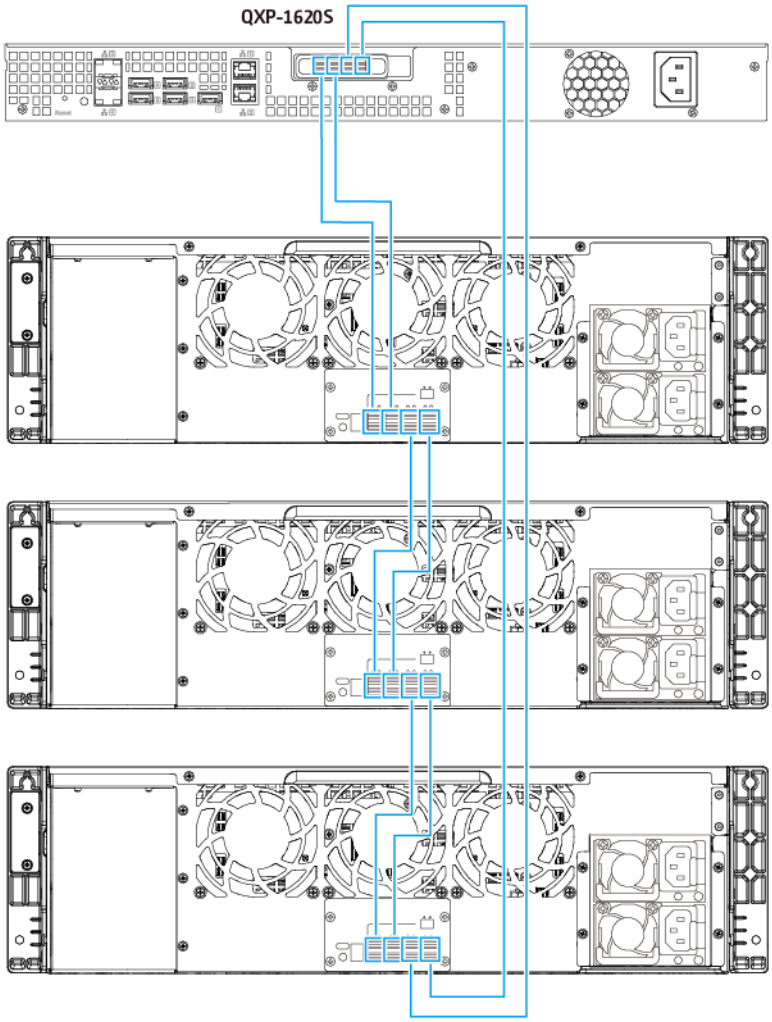


連結彙總控制通訊協定的網路設置

連結彙總控制通訊協定 (LACP) 是一種容錯技術，結合多個實體連接埠形成單一通道。如果一個連接埠故障，使用連結彙總可提供快速且透明的復原，所有 I/O 流量會持續運作，直到所有實體連接埠故障。部署連結彙總可達到更好的網路效能。

以下圖例說明多路徑 I/O 的實作方式：

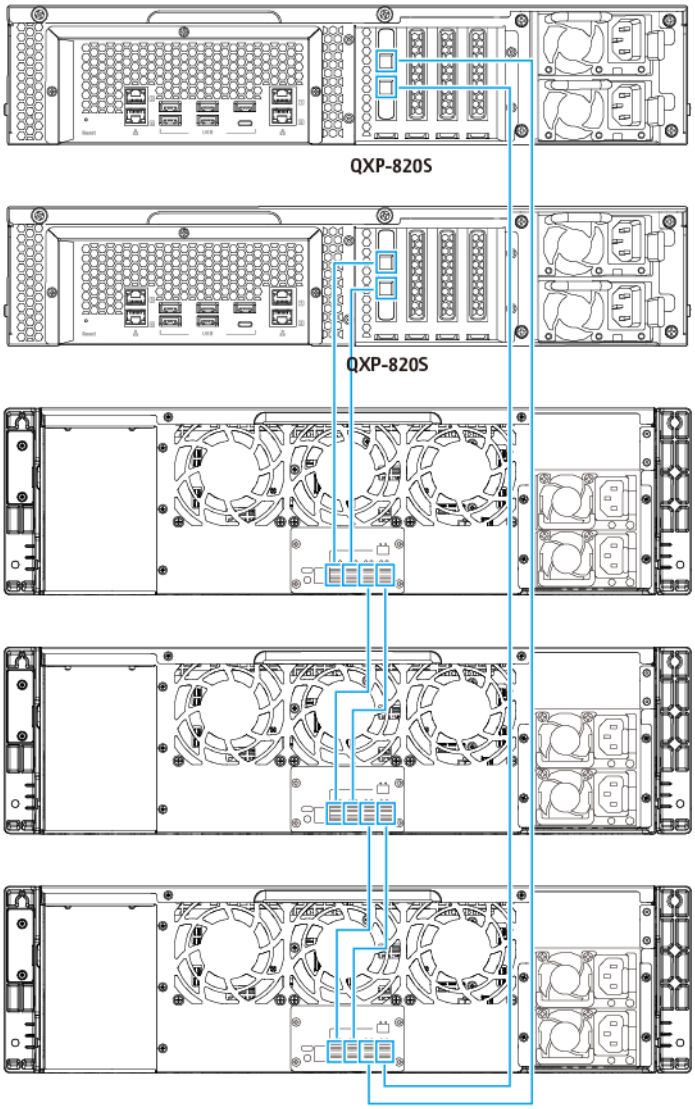




多路徑 I/O 及連結彙總控制通訊協定的網路設置

多路徑 I/O 及連結彙總是兩種互補的不同技術，這些技術可以一起部署，來達到網路可用性和網路效能的雙重優勢。

以下圖例說明多路徑 I/O 及連結彙總的實作方式：

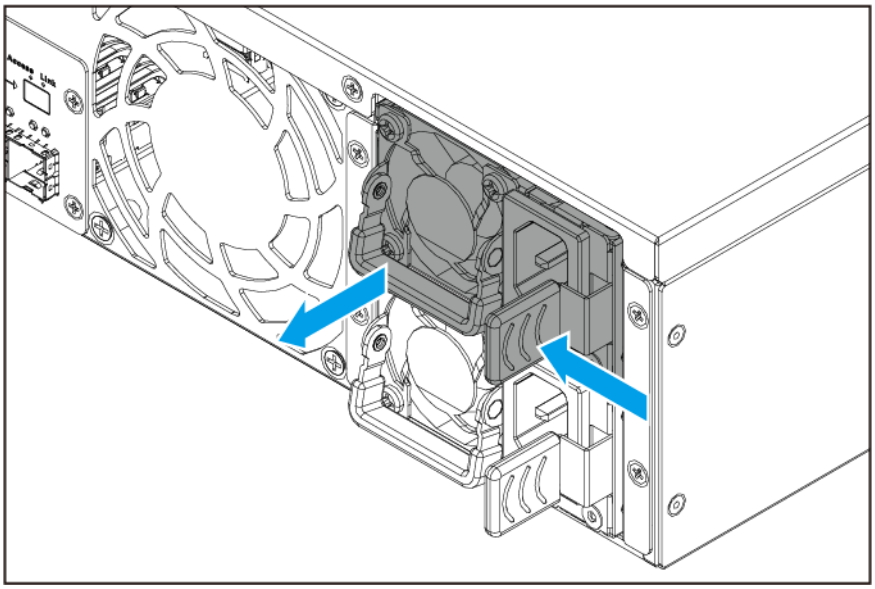


熱抽換備援電源供應器

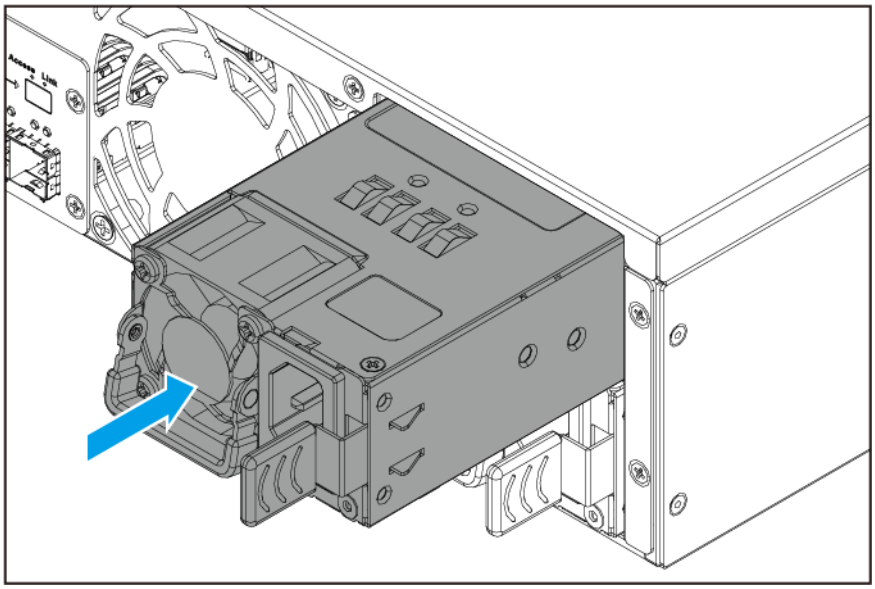
警告

NAS 至少配備一條電源供應器 (PSU) 的電源線。為防止嚴重傷害事故發生，在安裝或替換系統元件前，應由受過訓練的技術人員拔下所有 PSU 電源線。

1. 關閉 JBOD。
2. 從電源插座和更換的電源供應器上拔下電源線。
3. 朝把手方向按住門閂，然後拉出電源供應器。



4. 插入新的電源供應器。



5. 將電源線連上電源供應器並插入電源插座。
6. 開啟 JBOD。
7. 啟用電源供應器故障警訊。
   a. 請以管理員身分登入 QTS。
   b. 前往 [**控制台**] > [**系統**] > [**硬體**] > [**一般**] 。
   c. 選擇 [**啟動備援電源模式**] 。
   d. 按一下 [**套用**] 。

機架滑軌

裝置不含機架滑軌，必須另外購買。如需詳細資訊，請聯絡授權經銷商或前往 http://shop.qnap.com。

型號	相容機架滑軌
TL-R1220Sep-RP	RAIL-B02
TL-R1620Sep-RP	

您可以在機架滑軌的包裝中找到安裝資訊。

4. 基本操作

本章說明 JBOD 擴充裝置的基本操作。

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。	裝置關機。
強制關機	按住按鈕 5 秒。	裝置關機。 **重要** 請在裝置沒有回應時才使用此方法。

LED 燈號

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。 • JBOD 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。
	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）。 • 硬體自我檢查發生錯誤。 • 系統溫度超過 65°C。 • 一個或多個電源供應器異常。
	紅燈每 2 秒閃爍	JBOD 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	JBOD 收到遙控器的指令。
	綠燈每 2 秒閃爍	• JBOD 未設置。 • 硬碟未格式化。
	綠燈	JBOD 已就緒。
	關閉	• 所有硬碟處於待命模式。 • JBOD 已關閉。
硬碟	綠燈	• JBOD 擴充裝置電源已開啟。 • 硬碟可供存取。
	綠燈閃爍	正在存取硬碟。
	紅燈	硬碟讀寫錯誤。
	紅燈每秒閃爍五次	作業系統正在尋找硬碟。
	關閉	偵測不到硬碟。
連結	綠燈	連接的連接埠已確實連接。
	關閉	沒有連接的纜線。

LED	狀態	說明
SAS 連接器連結	綠燈	裝置已確實連結。
	橙燈	裝置未確實連結。
	關閉	• 裝置未連結。 • 裝置沒有連接纜線。
SAS 連接器存取	藍燈	正在存取資料。
	熄滅	• 資料未被存取。 • 沒有連結的硬碟。
風扇發生錯誤	紅燈	系統風扇異常。
	關閉	系統風扇正常運作中。

警示音

持續期間	頻率	說明
短嗶（0.5 秒）	1	• JBOD 磁碟托盤連結已連線。 • JBOD 磁碟托盤連結已中斷連線。
長嗶（2 秒）	3 聲（每 5 分鐘）	• 系統風扇異常。 • 系統溫度超過臨界值。 **注意** 預設溫度警示臨界點為 65°C。您可以使用 QNAP JBOD Manager 將臨界溫度設定為 55°C 和 69°C 之間。

5. 疑難排解

本章介紹基本的疑難排解資訊。

強制「儲存與快照總管」或 QNAP JBOD Manager 辨識 JBOD 擴充裝置

如果「儲存與快照總管」或 QNAP JBOD Manager 於運作中無法找到 JBOD 擴充裝置，表示硬碟或資料可能損壞。

1. 關閉 JBOD 擴充裝置。
2. 移除所有硬碟。
3. 開啟 JBOD 擴充裝置。
4. 使用「儲存與快照總管」或 QNAP JBOD Manager 來尋找 JBOD。
5. 將硬碟重新插入。
6. 繼續操作。

熱抽換故障硬碟

在連接 QTS 或 QuTS hero NAS 時，JBOD 擴充裝置可在下列情況下支援熱抽換硬碟：

RAID 類型	情況
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。
RAID 10	在兩個不同組的硬碟中有一或兩個硬碟故障。
RAID 50	每個子群組有一個硬碟故障。
RAID 60	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**] > [**外接儲存裝置**]。
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. 將故障硬碟從 JBOD 擴充裝置取下。
6. 等待 30 秒或等到 JBOD 擴充裝置發出兩次嗶聲。
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。
   JBOD 擴充裝置發出兩次嗶聲。
10. 等待 30 秒或等到 JBOD 擴充裝置發出兩次嗶聲。
11. 前往 [**主選單**] > [**儲存與快照總管**] > [**儲存空間**] > [**儲存空間/快照**]。

12. 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://download.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
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

QNAP JBOD Manager

讓您檢視及設置 QNAP JBOD 擴充裝置的 Windows、Linux 和 macOS 軟體工具

QTS

QNAP NAS 作業系統

QuTS hero

QNAP NAS 作業系統配備 ZFS 檔案系統

儲存與快照總管

QTS 應用工具可讓您檢視並設置與 QNAP NAS 相連的 QNAP JBOD 擴充裝置

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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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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