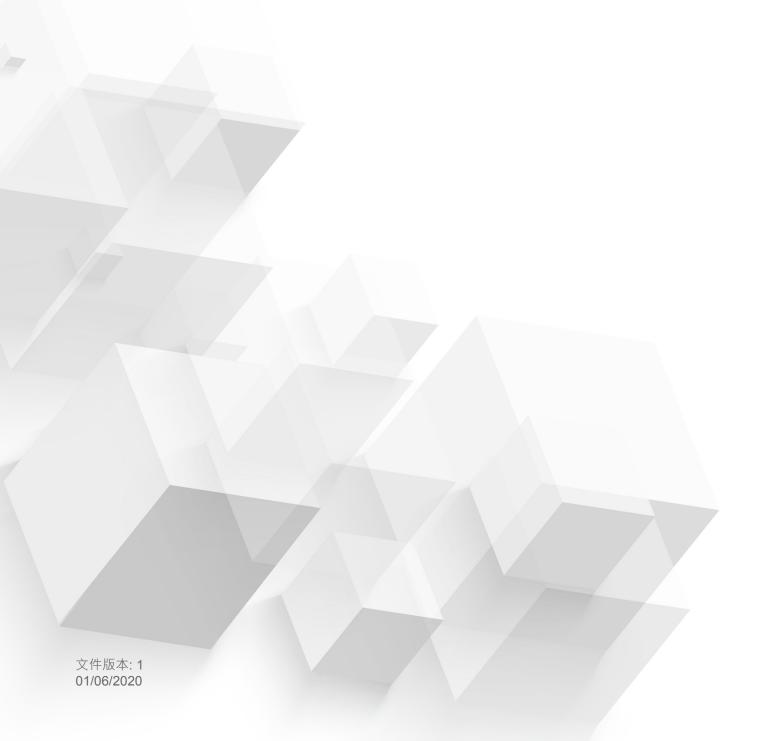


TS-451DeU

使用者指南



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1. 前言

關於本指南

本指南涵蓋 QNAP TS-451DeU 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。 | | | |
| 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。 | | | |
| 1 | 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 TS-451DeU NAS 的基本資訊。

關於 TS-451DeU

TS-451DeU 搭載 Intel® Celeron® J4025 雙核心 2.0 GHz 處理器、AES-NI 硬體加密引擎,支援達 8 GB 的 DDR4 記憶體。NAS 提供兩個 M.2 2280 SATA 6 Gbps SSD 插槽以及四個熱抽換 SATA 6 Gbps 硬碟插槽,並同時支援硬碟與固態硬碟。TS-451DeU 也包含兩個 USB 2.0 連接埠和兩個 USB 3.2 Gen 1 連接埠。

硬體規格



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 | TS-451DeU-2G | | |
|------------|---|--|--|
| | | | |
| CPU | Intel® Celeron® J4025 | | |
| 頻率 | 2 核心/2 執行緒 2.00 GHz 基頻/2.90 GHz 超頻 | | |
| 架構 | x86 64 位元 | | |
| 加密引擎 | AES-NI | | |
| 記憶體 | | | |
| 預載記憶體 | 2GB: 1 x 2 GB SODIMM 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 | 8 GB RAM: 2 x 4 GB | | |
| 快閃記憶體 | 4 GB (雙啟動作業系統防護) | | |
| 儲存 | | | |
| 硬碟插槽 | 4 x 3.5 吋 SATA 6 Gbps | | |
| | 注意 SATA 6 Gbps 硬碟插槽與 SATA 3 Gbps 硬碟回溯相 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 | | |
| M.2 SSD 插槽 | 2 x SATA 6 Gbps | | |
| M.2 SSD 機種 | 2280 | | |

| 元件 | TS-451DeU-2G | |
|-------------------|--|--|
| SSD 快取加速技術支援 | 3.5 吋硬碟插槽: 1 至 4 | |
| 熱抽換 | 支援 | |
| 網路 | | |
| 2.5 Gigabit 乙太網路埠 | 2 x 2.5 GbE RJ45 | |
| | 注意 2.5 Gigabit 乙太網路埠提供三種網路連線速度:2.5G、 1G、100M 和 10M。 | |
| 外接 I/O 埠和擴充插槽 | | |
| USB 連接埠 | • 2 x USB 2.0 A 型 | |
| | • 2 x USB 3.2 Gen 1 A 型 | |
| 介面 | | |
| 按鈕 | • 電源 | |
| | • 重設 | |
| 尺寸 | | |
| 外型 | 1U 機架式 | |
| 尺寸(高 x 寬 x 深) | 43.3 x 430 x 294.9 mm (1.74 x 16.92 x 11.61 时) | |
| 淨重 | 4.15 kg (9.15 lbs) | |
| 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。 | |
| 其他 | | |
| 電源供應器 | 100W · 100-240V AC · 50/60 Hz | |
| 系統電池 | CR2032 鋰電池(3V · 225 mAh) | |
| 噪音值 | 21.6 dB(A) | |
| | 注意 從旁觀者位置(距 NAS 一公尺內)測試噪音值。在測 試用的 NAS 中安裝最多數量的硬碟,並以低速運行。 | |
| 風扇 | 系統:3 x 40 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 | |

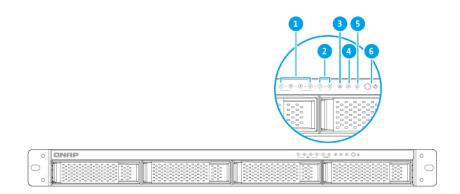
包裝內容

| 項目 | 數量 |
|-----------|----|
| TS-451DeU | 1 |
| 電源線 | 1 |

| 項目 | 數量 | |
|--------------|---------------|--|
| 乙太網路線 | 2 x Cat5e 連接線 | |
| 3.5 吋硬碟用螺絲 | 16 | |
| 2.5 吋硬碟用螺絲 | 12 | |
| M.2 SSD 散熱器 | 2 | |
| 把手套組 | • 2 x 把手 | |
| | • 2 x 角形托座 | |
| | • 8 x 螺絲 | |
| 快速安裝手冊 (QIG) | 1 | |

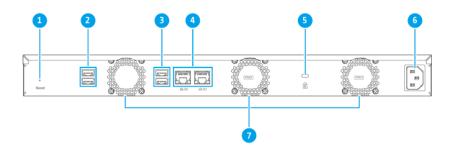
元件

前方面板



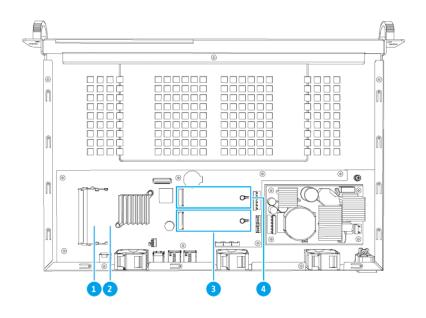
| 編號 | 元件 | 編號 | 元件 |
|----|---------------|----|--------------|
| 1 | 硬碟 LED 燈 | 4 | USB 擴充設備 LED |
| 2 | M.2 SSD LED 燈 | 5 | 狀態 LED 燈 |
| 3 | LAN LED 燈 | 6 | 電源按鈕 |

背部面板



| 編號 | 元件 | 編號 | 元件 |
|----|----------------------|----|-----------------|
| 1 | 重設按鈕 | 5 | Kensington 安全插槽 |
| 2 | USB 2.0 A 型連接埠 | 6 | 電源輸入 |
| 3 | USB 3.2 Gen 1 A 型連接埠 | 7 | 系統風扇 |
| 4 | 2.5 Gigabit 乙太網路埠 | - | - |

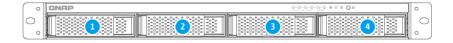
系統板





| 編號 | 元件 | 編號 | 元件 |
|----|---------|----|--------------|
| 1 | 記憶體插槽 2 | 3 | M.2 SSD 插槽 1 |
| 2 | 記憶體插槽 1 | 4 | M.2 SSD 插槽 2 |

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 | |
| 硬體和週邊設備 | • 儲存硬碟 請前往 https://www.qnap.com/compatibility 以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 | |

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

• NAS 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 NAS;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適當的接地電源插座。



裝置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。

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。

移動零件

•



轉動中之風扇葉片:裝置連接至電源時,請使身體部位遠離轉動中之風扇葉片。



移動元件:使身體部位遠離其他移動元件。

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. 將 NAS 安裝到機架上。 如需詳細資訊,請參見:機架滑軌和把手安裝。
- **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
 - 安裝 M.2 固態硬碟

- 4. 將 NAS 連接至網路。
- 5. 選擇性: 連接擴充設備。 如需詳細資訊,請參見:連接 USB 擴充設備。
- 6. 連接電源線與所有適用的網路線。
- 7. 開啟 NAS。
- 8. 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

本節介紹硬碟安裝、記憶體模組、把手以及新增擴充設備的相關資訊。

取下機殼蓋



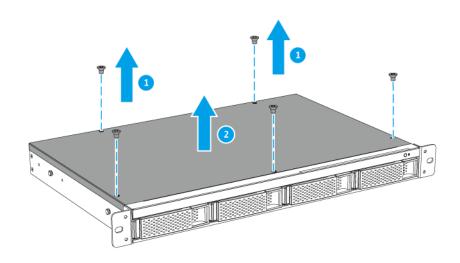


轉動中之風扇葉片:使雙手及其他身體部位遠離轉動中之風扇葉片。



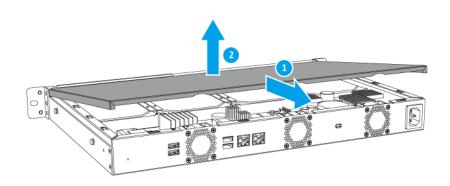
其他移動元件:使雙手及其他身體部位遠離其他移動元件。

- 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. 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 NAS。



裝上機殼蓋



警告

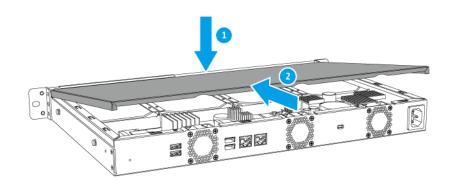


轉動中之風扇葉片:使雙手及其他身體部位遠離轉動中之風扇葉片。

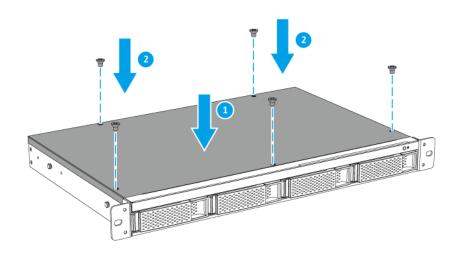


其他移動元件:使雙手及其他身體部位遠離其他移動元件。

- 1. 將殼蓋放在 NAS 上。
- 2. 將殼蓋往前推。



3. 鎖緊螺絲。



- 4. 連上所有連接線和外接裝置。
- 5. 將電源線插入電源插座。
- 6. 開啟 NAS 電源。

硬碟安裝

TS-451DeU 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

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



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。

•



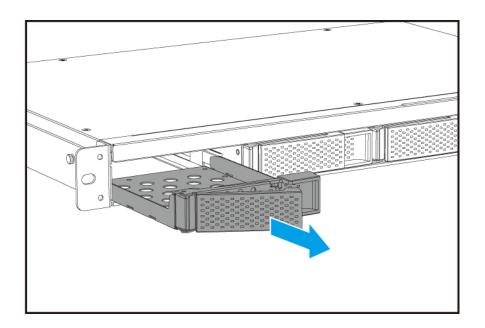
轉動中之風扇葉片:使雙手及其他身體部位遠離轉動中之風扇葉片。

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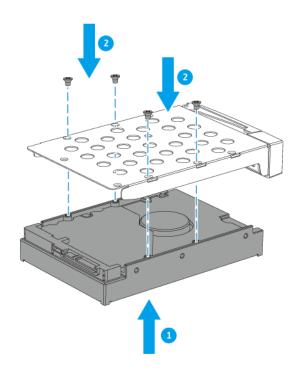


其他移動元件:使雙手及其他身體部位遠離其他移動元件。

- 1. 關閉 NAS 電源。
- 2. 抽出硬碟托盤。
 - a. 將托盤把手往外拉。
 - **b.** 將托盤拉出。

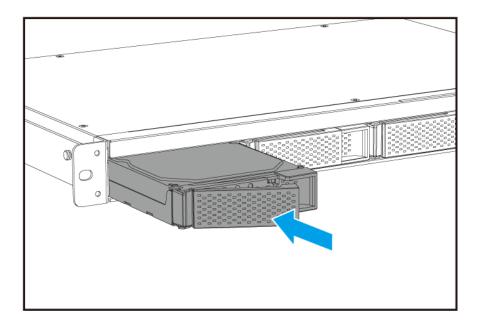


- 3. 在托盤上安裝硬碟。
 - **a.** 將硬碟放在托盤上,讓硬碟底部的孔洞與托盤底部的孔洞對齊。
 - **b.** 鎖上螺絲。



4. 將托盤裝入插槽。

- a. 將托盤插入插槽。
- **b.** 將托盤推入插槽。
- **c.** 推入把手。
- d. 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

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



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。

•



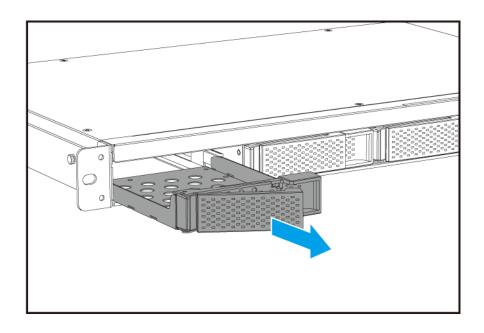
轉動中之風扇葉片:使雙手及其他身體部位遠離轉動中之風扇葉片。

•



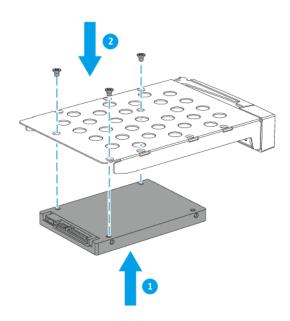
其他移動元件:使雙手及其他身體部位遠離其他移動元件。

- 1. 關閉 NAS 電源。
- 2. 抽出硬碟托盤。
 - a. 將托盤把手往外拉。
 - **b.** 將托盤拉出。



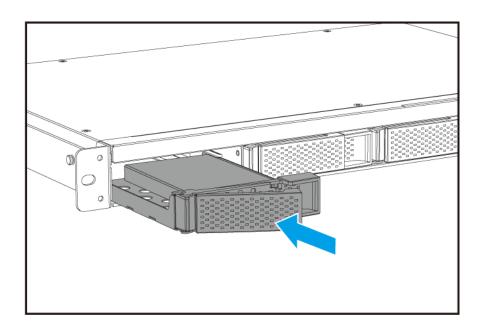
3. 在托盤上安裝硬碟。

- a. 將托盤放在硬碟上,讓托盤的孔洞與硬碟的孔洞對齊。
- **b.** 鎖上螺絲。



4. 將托盤裝入插槽。

- a. 將托盤插入插槽。
- b. 將托盤推入插槽。
- c. 推入把手。
- d. 將托盤上鎖。



5. 開啟 NAS。

安裝 M.2 固態硬碟

TS-451DeU 在系統板上有兩個 M.2 SATA 6 Gbps SSD 插槽。請前往 http://www.qnap.com/compatibility 查看相容 M.2 SSD 的清單。



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。

•



轉動中之風扇葉片:使雙手及其他身體部位遠離轉動中之風扇葉片。

•



其他移動元件:使雙手及其他身體部位遠離其他移動元件。



注意

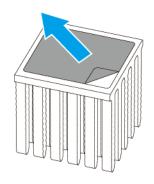
• QNAP 建議在 M.2 SSD 控制器上安裝散熱器,以提高散熱效率並確保效能一致。

- 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. 取下機殼蓋。 如需詳細資訊,請參見:取下機殼蓋。
- 5. 在 M.2 SSD 控制器上安裝散熱器。
 - a. 找到 M.2 SSD 上的控制器。

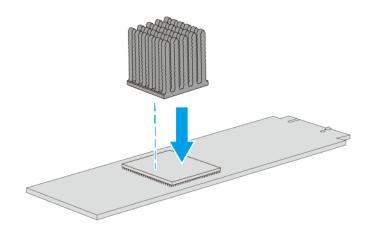


控制器的位置會因 M.2 SSD 的型號與製造商而不同。如需詳細資訊,請參見相關文件或聯絡製

b. 取下散熱器底部的保護膜。

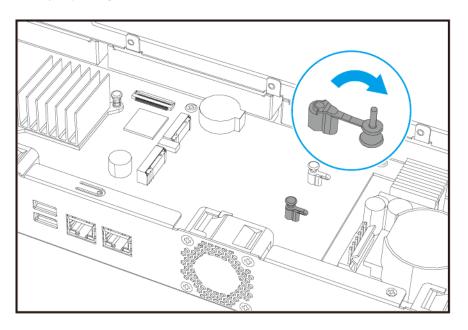


c. 在控制器上安裝散熱器。

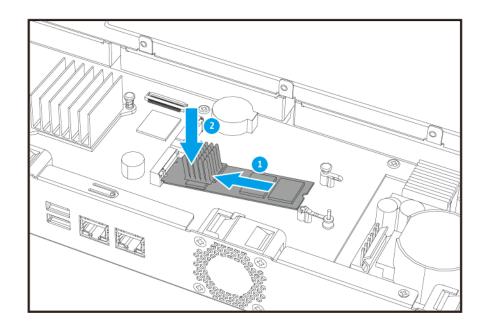


6. 安裝 M.2 SSD。

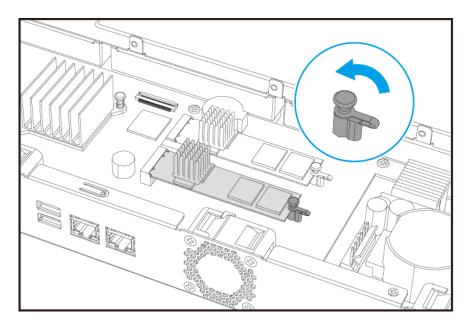
a. 拉出固定釘。



b. 插入 M.2 SSD。



c. 插入固定釘以鎖緊硬碟。



- 7. 將 NAS 正常擺放。
- 8. 裝上機殼蓋。 如需詳細資訊,請參見:裝上機殼蓋。
- 9. 連上所有連接線和外接裝置。
- 10. 將電源線插入電源插座。
- **11.** 開啟 NAS。

更換記憶體模組

TS-451DeU 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。

僅限使用 QNAP 記憶體模組以維護系統效能和穩定性。您可向授權經銷商購買 QNAP 記憶體模組。



重要

確認兩個記憶體模組皆相同。



警告

• 請遵守靜電放電 (ESD) 程序以防止元件損壞。

•



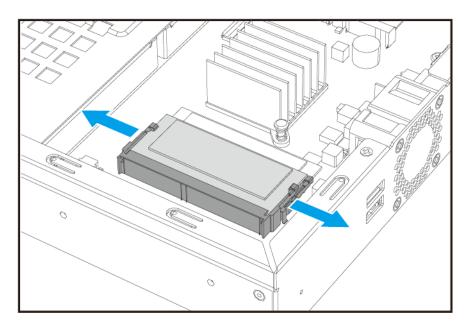
轉動中之風扇葉片:使雙手及其他身體部位遠離轉動中之風扇葉片。

•



其他移動元件:使雙手及其他身體部位遠離其他移動元件。

- 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. 取下機殼蓋。 如需詳細資訊·請參見:取下機殼蓋。
- 5. 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。



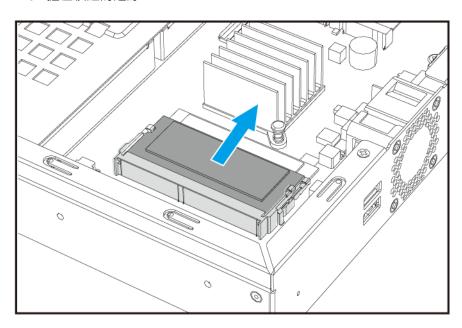
b. 確認記憶體模組已向上傾斜且完全從插槽鬆脫。



擎牛

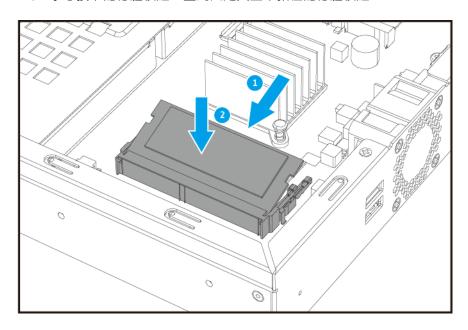
若嘗試取下未完全鬆脫的記憶體模組,可能會損壞記憶體模組與主機板。

c. 握住模組的邊緣。



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。 如需詳細資訊·請參見:裝上機殼蓋。
- 8. 連上所有連接線和外接裝置。
- 9. 開啟 NAS。
- 10. 確認 NAS 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[總記憶體]的值。

連接 USB 擴充設備

TS-451DeU 支援 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/。

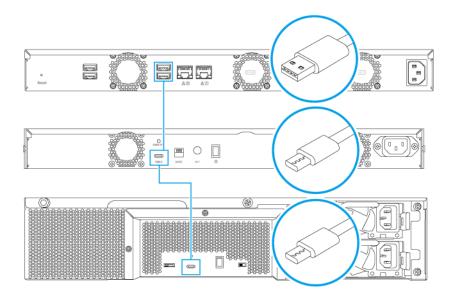
如需相容擴充設備清單以及適用擴充設備的數量上限,請前往:http://www.qnap.com/go/compatibility-expansion。

| 擴充設備型號 | 描述 | 必要配件 |
|--------------|--|---------------------------------|
| TR-004 | 使用 USB 3.2 Gen 1 C 型介面支援 SATA | • USB 3.2 Gen 1 A 型轉 C 型連 接線 |
| | ◆ 又版 SAIA | • RAIL-B02 |
| TL-R1200C-RP | • 使用 USB 3.2 Gen 2 C 型介面 | • USB 3.2 Gen 2 A 型轉 C 型連 |
| | • 支援 SATA | 接線 |
| | | • RAIL-B02 |

TS-451DeU 最多支援連接兩個 USB 擴充設備。您可以使用下列其中一種配置:

| 擴充設備類型 | 支援的設備數量 |
|--------------|---------|
| TR-004 | 2 |
| TL-R1200C-RP | 1 |

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

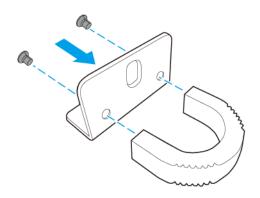


- 2. 開啟擴充設備的電源。
- 3. 確認 NAS 可辨識所有擴充設備。
 - a. 以管理員身分登入 QTS。
 - **b.** 前往[主選單] > [儲存與快照總管] > [總覽] > [系統] ·
 - c. 確認畫面列出擴充設備。

把手安裝

安裝把手後,即可輕鬆且穩固地拿取 NAS。

- 1. 關閉 NAS 電源。
- 2. 將把手安裝到角形托座上。
 - a. 將把手開口對齊至角形托座上的兩個圓頭螺絲洞。
 - **b.** 鎖上螺絲,將把手鎖定在角形托座上。



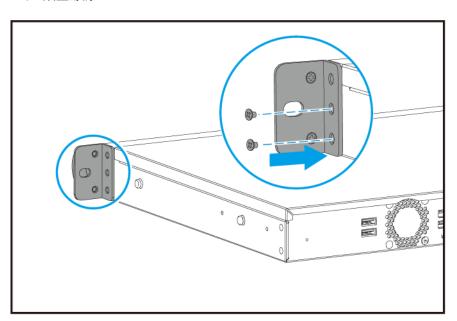
- 3. 在 NAS 上安裝角形托座。
 - a. 將角形托座上的孔洞對齊機殼上的孔洞。



注意

請確定把手與前面板面對相同的方向。

b. 鎖上螺絲。



- 4. 在機殼的另一側安裝第二個把手。
- **5.** 開啟 NAS。

機架滑軌

TS-451DeU 與下列型號相容:

• RAIL-B02

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。您可以在機架滑軌的包裝中找到安裝資訊。

QTS 安裝

TS-451DeU 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 | 描述 | 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。 | 電腦網路線Qfinder Pro 安裝程式 |
| 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。 網路線 myQNAPcloud 帳號 CloudKey |

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。



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。 [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. 輸入下列資訊:
 - NAS 名稱:輸入 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



2

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.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

▼ 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 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**]。 「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. 輸入下列資訊:
 - NAS 名稱:輸入 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。



警生

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。

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。 | 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 |
|--------|------------|--|
| 系統基本重設 | 按住按鈕3秒。 | 以下設定將回復至預設值: |
| | | 系統管理員密碼:無特殊字元的介面卡 1 MAC 位址。 例如,若介面卡 1 的 MAC 位址為 11:22:33:44:55:66, 則管理員密碼為 112233445566。 |
| | | 提示 您可以透過 Qfinder Pro 找到介面卡 1 MAC 位址。黏貼至裝置的標籤亦將位址列為 MAC1。 |
| | | • TCP/IP 設定: |
| | | • 使用動態 IP 位址 |
| | | • 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 |
| 系統進階重設 | 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。 |

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 | • 硬碟正在格式化。 |
| | 爍 | • 裝置正在初始化。 |
| | | • 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。 |
| | | • 系統溫度超過臨界值。 |
| | 紅燈每 0.5 秒閃爍 | NAS 處於降階模式(RAID 1 的一個硬碟故障)。 |
| | 綠燈每 0.5 秒閃爍 | • 裝置啟動中。 |
| | | • 裝置未設定。 |
| | | • 硬碟未格式化。 |
| | 綠燈每2秒閃爍 | 所有硬碟處於待命模式。 |
| | 線燈每秒閃爍 綠燈 | 装置未設定。 装置已就緒。 |
| | 關閉 | • 所有硬碟處於待命模式。 |
| | | 装置已關機。 |

| LED | 狀態 | 說明 |
|----------|------|----------------------------|
| LAN | 橙燈 | 其他裝置存取資料時發生讀寫錯誤。 |
| | 橙燈閃爍 | 使用者正在從網路存取裝置。 |
| 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。 |
| | | • 磁碟溫度超過臨界值。 |
| | 綠燈閃爍 | • 正在存取資料。 |
| | | • 正在複製資料。 |
| | 綠燈 | • 可存取硬碟。 |
| | | • 裝置已開機。 |
| | 關閉 | 偵測不到硬碟。 |
| M.2 SSD | 紅燈閃爍 | 硬碟定位中。 |
| | 紅燈 | 發生硬碟讀寫錯誤。 |
| | 綠燈閃爍 | 資料存取中。 |
| | 綠燈 | 可存取硬碟。 |
| | 關閉 | 偵測不到硬碟。 |
| USB 擴充設備 | 藍燈 | QNAP USB 外接儲存裝置已連接至 USB 埠。 |
| | 關閉 | 未連接 USB 外接儲存裝置。 |

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。 | | | |
| 短嗶 (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。 | | | |

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. 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

當 NAS 於 RAID 1 的一個硬碟故障時支援熱抽換。

- 1. 登入 QTS。
- 2. 前往[主選單] > [儲存空間總管] > [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]。
- 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。 使用者可以將失效的 RAID 1、RAID 5 或 RAID 6 磁碟區回復至降階模式,或將失效的 RAID 0 和 JBOD 組態 回復至正常模式。

| 磁碟/磁碟群組 | RAID 復原支援 | 遭移除的硬碟最大數目 |
|---------|-----------|------------|
| 單獨 | 否 | N/A |
| JBOD | 是 | 1 |

| 磁碟/磁碟群組 | RAID 復原支援 | 遭移除的硬碟最大數目 |
|---------|-----------|------------|
| RAID 0 | 是 | 1 |
| RAID 1 | 是 | 1 |
| RAID 5 | 是 | 2 |
| RAID 6 | 是 | 3 |
| RAID 10 | 否 | N/A |

支援和其他資源

QNAP 提供下列資源:

| 資源 | URL | |
|--------|---------------------------|--|
| 文件 | https://docs.qnap.com | |
| 服務入口網站 | https://service.qnap.com | |
| 下載 | https://download.qnap.com | |
| 社群論壇 | https://forum.qnap.com | |

6. 詞彙

CloudKey

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址設定

myQNAPcloud

提供各種遠端存取服務,例如 DDNS 與 myQNAPcloud Link

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

7. 聲明

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Version 3. 29 June 2007

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FCC 聲明

FCC A 級聲明



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|--------|-----------|-----------|-----------|-----------------|---------------|-----------------|
| | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (CR(VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 壳体 | 0 | 0 | 0 | 0 | 0 | 0 |
| 显示 | 0 | 0 | 0 | 0 | 0 | 0 |
| 印刷电路板 | 0 | 0 | 0 | 0 | 0 | 0 |
| 金属螺帽 | 0 | 0 | 0 | 0 | 0 | 0 |
| 电缆组装 | 0 | 0 | 0 | 0 | 0 | 0 |
| 风扇组装 | 0 | 0 | 0 | 0 | 0 | 0 |
| 电力供应组装 | 0 | 0 | 0 | 0 | 0 | 0 |
| 电池 | 0 | 0 | 0 | 0 | 0 | 0 |

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