



QNAP

TS-230

使用者指南

目錄

1. 前言	
關於本指南.....	3
適用對象.....	3
慣用符號.....	3
2. 產品概觀	
關於 TS-230.....	4
硬體規格.....	4
包裝內容.....	6
元件.....	6
前方面板.....	6
背部面板.....	7
前端硬碟編號.....	8
安裝需求.....	8
設定 NAS.....	8
3. 安裝與設定	
硬體安裝.....	10
硬碟安裝.....	10
QTS 安裝.....	20
使用 Qfinder Pro 安裝 QTS.....	20
使用 Cloud Key 安裝 QTS.....	22
4. 基本操作	
電源按鈕.....	24
重設按鈕.....	24
LED 燈號.....	24
USB 單鍵備份按鈕.....	26
警示音.....	26
5. 疑難排解	
熱插拔故障硬碟.....	27
強制 Qfinder Pro 或 myQNAPcloud 定位 NAS.....	27
復原意外移除的正常硬碟.....	27
支援和其他資源.....	28
6. 詞彙	
CloudKey.....	29
myQNAPcloud Link.....	29
myQNAPcloud ID.....	29
myQNAPcloud 雲服務.....	29
Qfinder Pro.....	29
QTS.....	29
7. 聲明	
有限保固.....	30
免責聲明.....	30
GNU Public License.....	30
CE 聲明.....	38
FCC 聲明.....	38

VCCI 聲明.....	38
經濟部標準檢驗局聲明.....	39
SJ/T 11364-2006.....	39

1. 前言





關於本指南

本指南涵蓋 QNAP TS-230 NAS 的相關資訊，以及安裝硬體的步驟指示。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 TS-230 NAS 的基本資訊。

關於 TS-230

TS-230 是簡單易用的輕量級 NAS 設備，適用於備份、同步、遠端存取及家庭娛樂等用途。TS-230 提供流暢的多用戶資料傳輸功能。此機種搭載 Realtek RTD1296 四核心 ARM Cortex A53 處理器以及 2 GB 的 DDR4 記憶體。其採用免工具直立式機型設計，適用於家庭與小型辦公室的理想 NAS。



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](#)。

訂購料號	處理器	記憶體	電源供應器
TS-230	Realtek RTD1296 ARM Cortex-A53	2 GB	單一

元件	TS-230
處理器	
處理器	Realtek RTD1296 ARM Cortex-A53
頻率	4 核心 / 1.4 GHz
架構	ARM 64 位元
加密引擎	AES-256
記憶體	
預載記憶體	2 GB RAM DDR4 (不可擴充)
	 注意 TS-230 保留部分 RAM 供圖像記憶體使用。
快閃記憶體	4 GB (雙啟動作業系統防護)
儲存	
硬碟插槽	2 x 3.5 吋 SATA 6 Gbps
	 注意 3.5 吋 SATA 硬碟插槽與 SATA 3 Gbps 硬碟回溯相容。

元件	TS-230
硬碟相容性	3.5 吋插槽： <ul style="list-style-type: none"> • 3.5 吋 SATA 硬碟 • 2.5 吋 SATA 硬碟 • 2.5 吋 SATA 固態硬碟  重要 2.5 吋硬碟托盤僅可容納高度不超過 9.5 mm 的硬碟。
熱抽換	支援
網路	
Gigabit 乙太網路埠	1 x GbE RJ45
外接 I/O 埠和擴充插槽	
USB 連接埠	正面：1 x USB 3.0 A 型  注意 此 USB 連接埠支援單鍵備份功能。 背面： <ul style="list-style-type: none"> • 1 x USB 2.0 A 型 • 1 x USB 3.0 A 型
尺寸	
外型	直立式
尺寸 (高 x 寬 x 深)	188.64 x 90.18 x 156.26 mm (7.43 x 3.55 x 6.15 in)
淨重	1.11 kg (2.45 lbs)
其他	
電源供應器	65W · AC 100 至 240 V · 50/60 Hz  警告 為降低火災及電擊風險，請確保將電源線連接至妥善接地的插座。
系統電池	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。
噪音值	15 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。

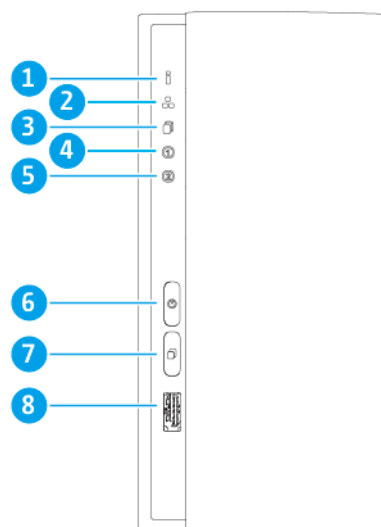
元件	TS-230
風扇	系統：1 x 80 mm · 12V DC 風扇  警告 請勿在 NAS 連上電源時觸碰風扇，以免受傷或損壞元件。
工作溫度	0°C 到 40°C (32°F 到 104°F)
相對濕度	<ul style="list-style-type: none"> 不凝結相對溼度：5% 至 95% 濕球溫度：27°C (80.6°F)

**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>。

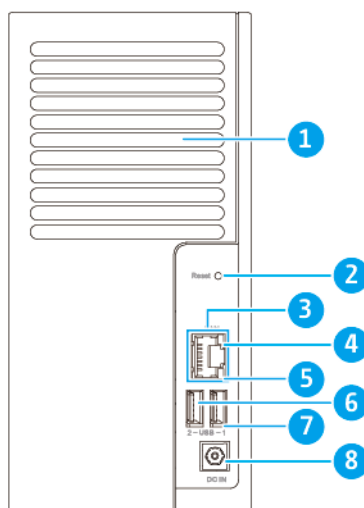
包裝內容

項目	數量
TS-230	1
AC 電源變壓器	1
電源線	1
3.5 吋硬碟用螺絲	8
2.5 吋硬碟用螺絲	6
乙太網路線	1
快速安裝手冊 (QIG)	1

元件**前方面板**

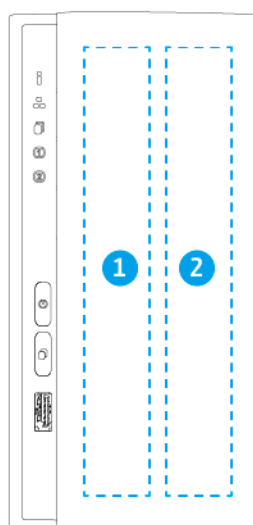
編號	元件	編號	元件
1	狀態 LED 燈	5	硬碟 2 LED 燈
2	LAN LED 燈	6	電源按鈕
3	USB 單鍵備份 LED 燈	7	USB 單鍵備份按鈕
4	硬碟 1 LED 燈	8	USB 3.0 單鍵備份 A 型連接埠

背部面板



編號	元件	編號	元件
1	系統風扇	5	Gigabit 乙太網路速度 LED 燈
2	重設按鈕	6	USB 2.0 A 型連接埠
3	乙太網路埠 (GbE RJ45)	7	USB 3.0 A 型連接埠
4	Gigabit 乙太網路活動 LED 燈	8	電源輸入

前端硬碟編號



安裝需求

類別	項目
環境	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 1 號或 2 號十字螺絲起子 • 平頭螺絲起子 • 防靜電腕帶

設定 NAS

1. 將 NAS 裝置放置在符合需求的環境。
2. 安裝硬碟。
 - 如需詳細資訊，請參見下列主題：
 - [在 3.5 吋硬碟托盤上安裝 3.5 吋硬碟](#)

- 在 3.5 吋硬碟托盤上安裝 2.5 吋硬碟或固態硬碟
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. 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-230 與 3.5 吋和 2.5 吋 SATA 硬碟，以及 2.5 吋固態硬碟相容。

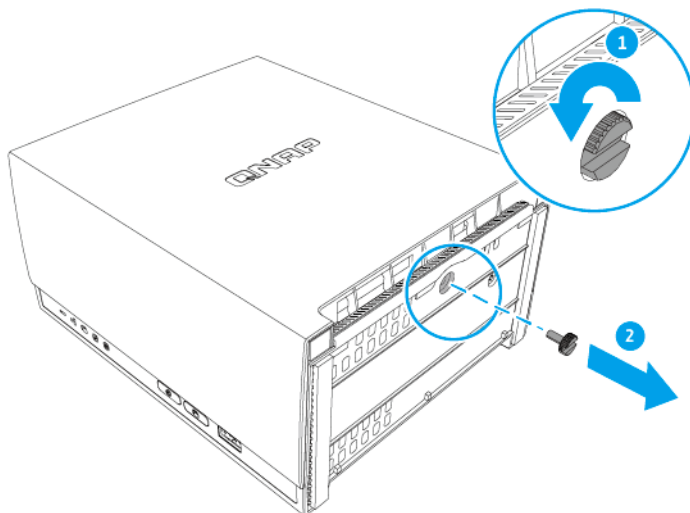
在 3.5 吋硬碟托盤上安裝 3.5 吋硬碟



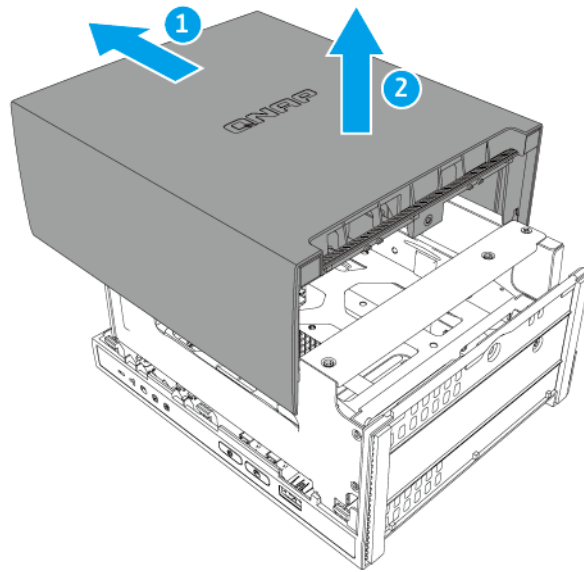
警告

- 安裝硬碟與 QTS 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. 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. 將 NAS 置於左側。
 - b. 鬆開螺絲。

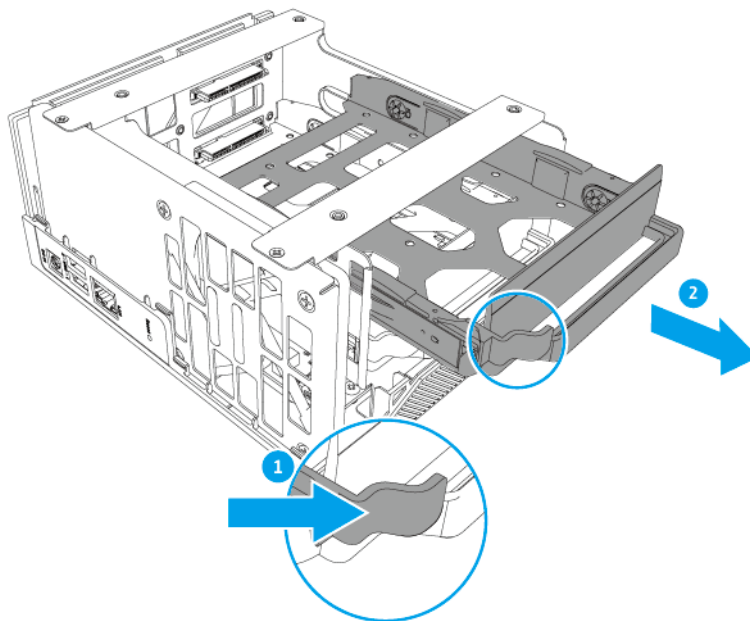


- c. 將殼蓋往後推。
- d. 拿起殼蓋。

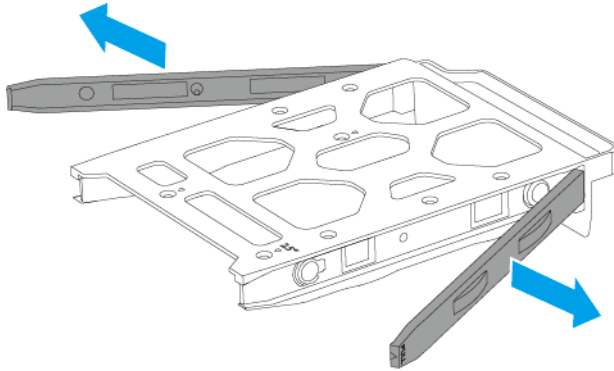


5. 在托盤上安裝硬碟。

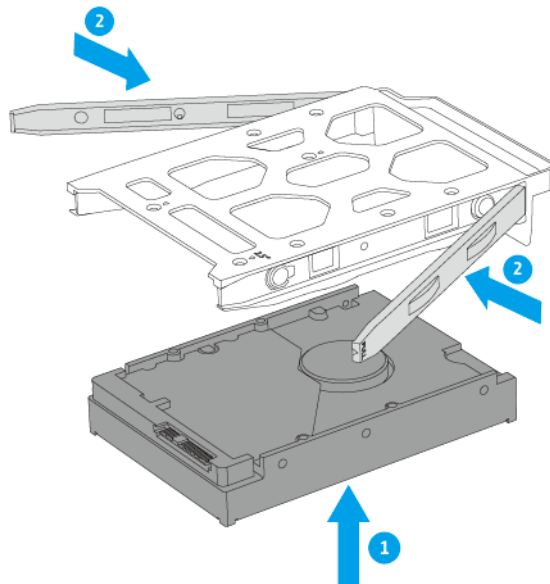
- a.** 同時按下門栓並拉出硬碟托盤，將托盤取下。



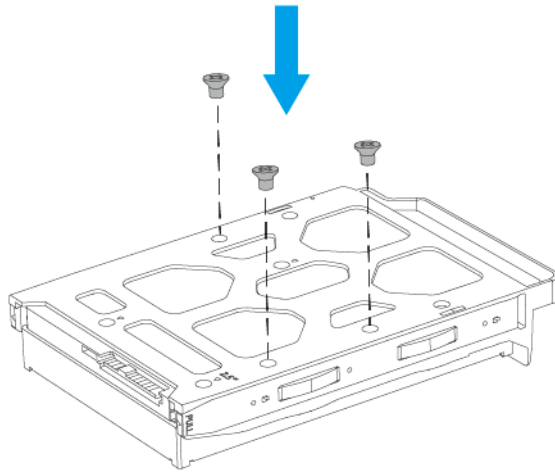
- b.** 取下硬碟托盤兩側的固定面板。



- c. 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。
- d. 裝上固定面板，將硬碟鎖定在托盤上。

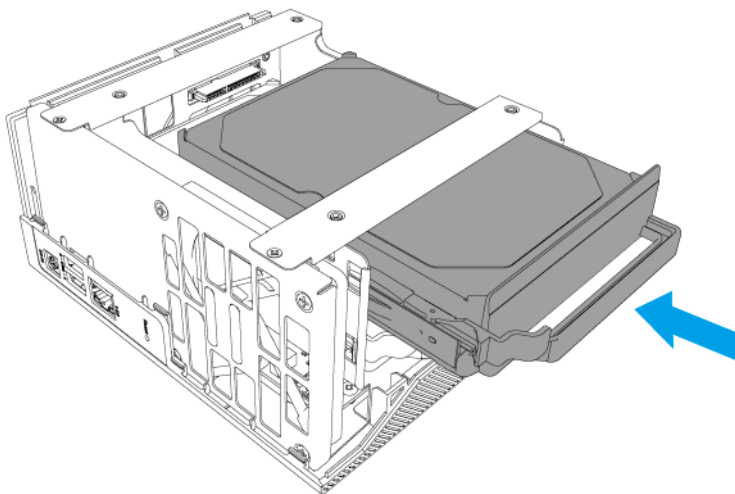


- e. 選擇性: 鎖上螺絲。



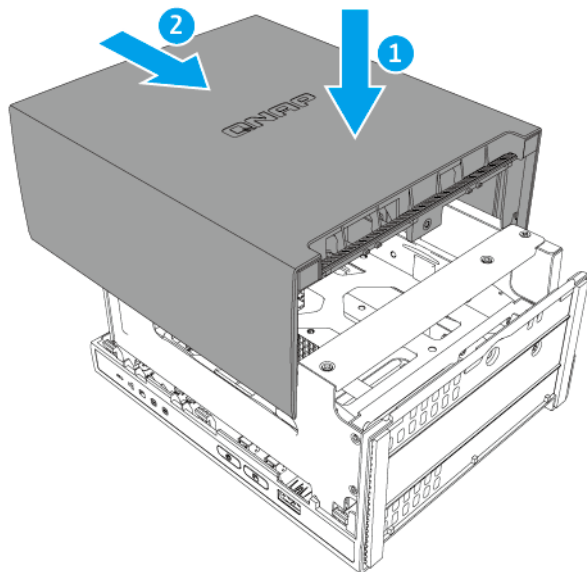
6. 將托盤裝入插槽。

- a. 將托盤推入硬碟插槽。
- b. 推入把手。

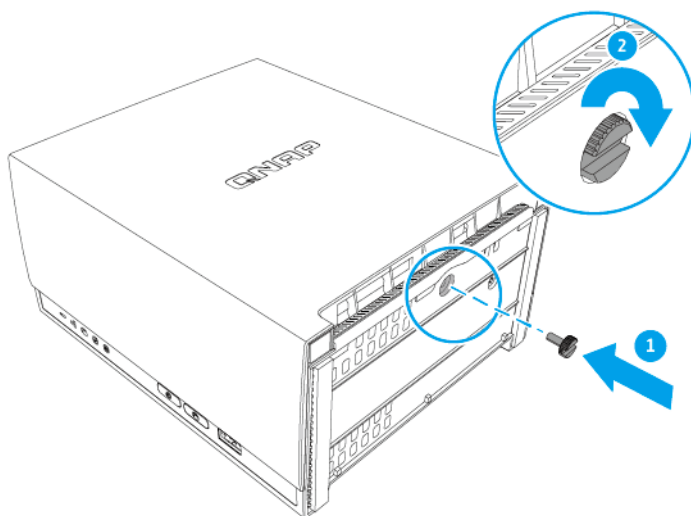


7. 裝上機殼蓋。

- a. 將殼蓋放在 NAS 上。
- b. 將殼蓋往前推。



c. 在 NAS 的底部鎖上螺絲。



d. 將 NAS 正常直立。



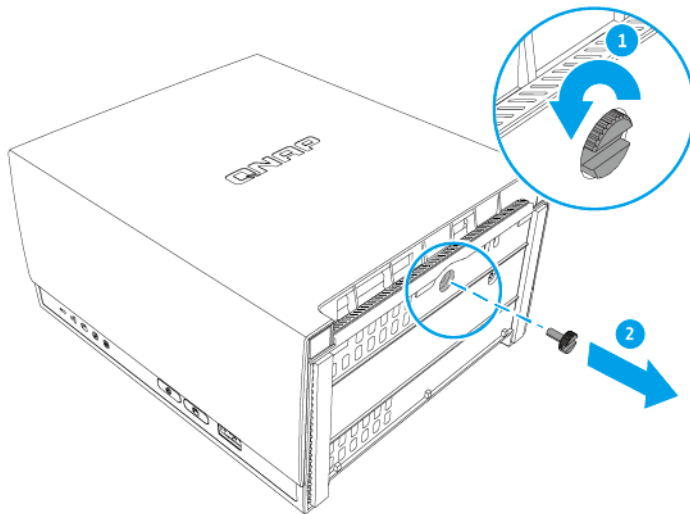
8. 連上所有連接線和外接裝置。
9. 打開 NAS 電源。

在 3.5 吋硬碟托盤上安裝 2.5 吋硬碟或固態硬碟

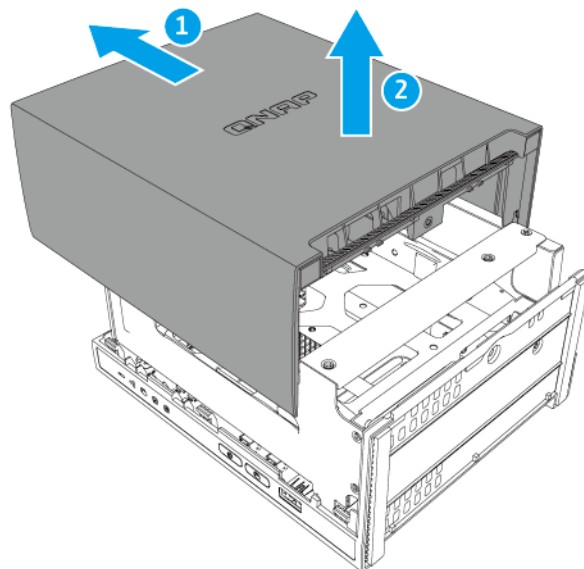


警告

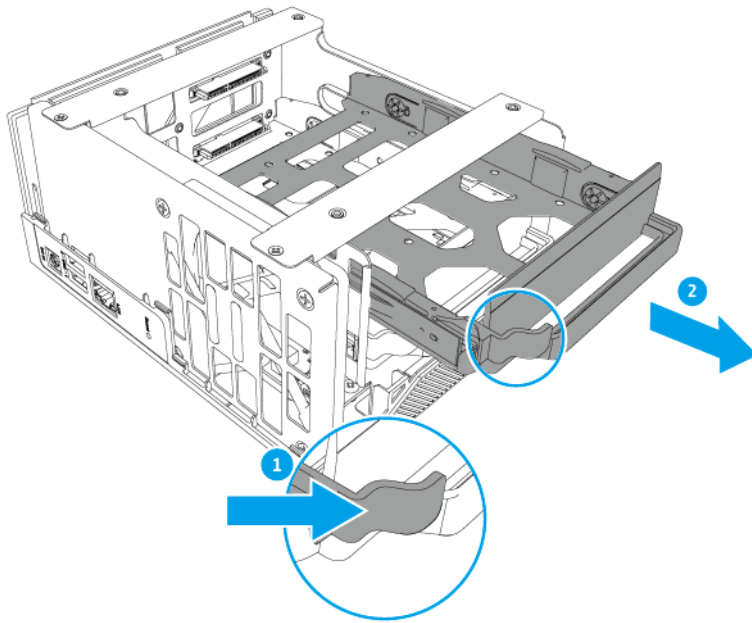
- 安裝硬碟與 QTS 會刪除硬碟上的所有資料。
 - 請遵守靜電放電 (ESD) 程序以防止元件損壞。
1. 關閉 NAS 電源。
 2. 從電源插座拔下電源線。
 3. 中斷所有連接線和外接裝置的連線。
 4. 取下機殼蓋。
 - a. 將 NAS 置於左側。
 - b. 鬆開螺絲。
 - c. 取下螺絲。



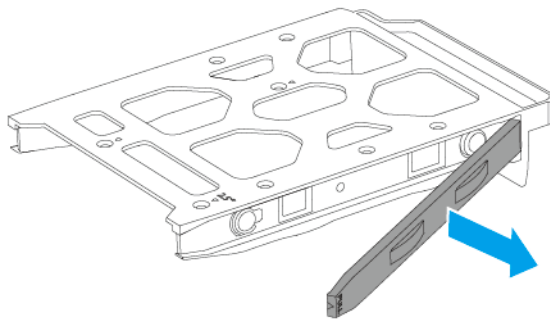
- d. 將殼蓋往後推。
- e. 拿起殼蓋。



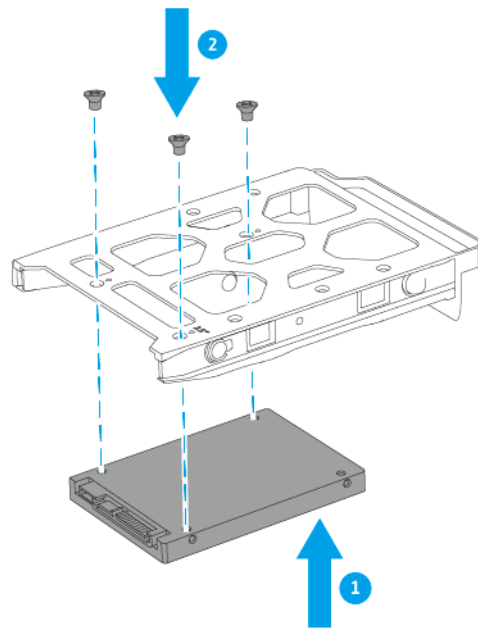
- 5. 在托盤上安裝硬碟。
 - a. 同時按下門栓並拉出硬碟托盤，將托盤取下。



- b. 取下硬碟托盤右側的固定面板。

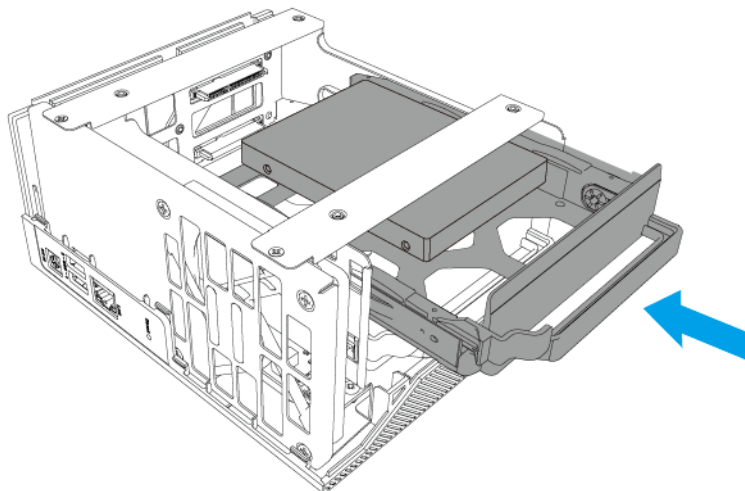


- c. 將硬碟放在托盤上，讓硬碟兩側的孔洞與托盤兩側的孔洞對齊。
- d. 鎖上螺絲。



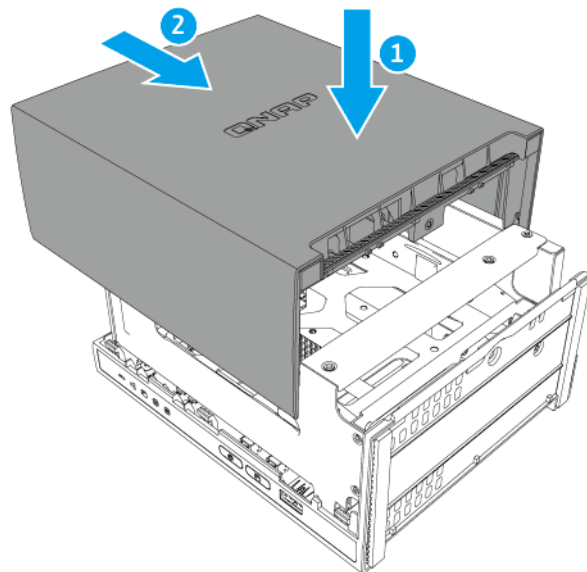
6. 將托盤裝入插槽。

- a. 將托盤推入硬碟插槽。
- b. 推入把手。

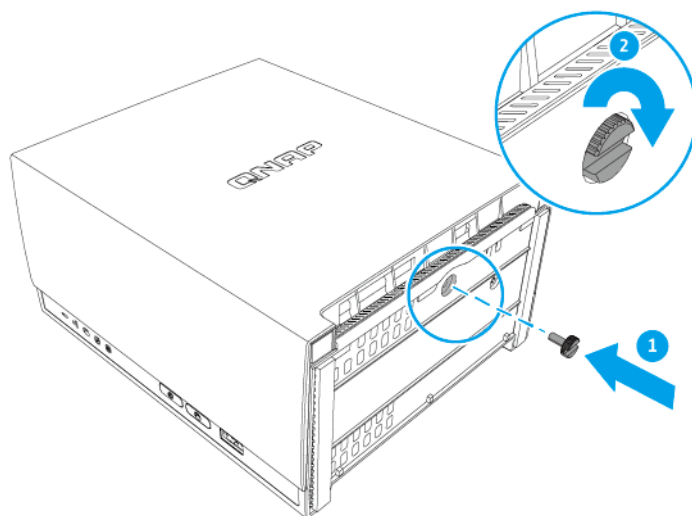


7. 裝上機殼蓋。

- a. 將殼蓋放在 NAS 上。
- b. 將殼蓋往前推。



c. 鎖上螺絲。



d. 將 NAS 正常直立。



8. 連上所有連接線和外接裝置。
9. 打開 NAS 電源。

QTS 安裝

方法	描述	需求
Qfinder Pro 安裝 (建議使用)	<p>如果 NAS 已連接您的區域網路，您可以執行下列操作：</p> <ul style="list-style-type: none"> • 使用 Qfinder Pro 定位 NAS。 • 完成「智慧安裝導引」精靈中的步驟。 	<ul style="list-style-type: none"> • 電腦 • 網路線 • Qfinder Pro 安裝程式
雲端安裝	<p>如果 NAS 已連接網際網路，您可以執行下列操作：</p> <ul style="list-style-type: none"> • 掃描 NAS 上的 QR 碼。 • 指定 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。 	<ul style="list-style-type: none"> • 電腦或行動裝置。 • 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。
5. 您可以執行下列動作。
 - 若要取得最新提供的版本，請點擊**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，請點擊**略過**。
6. 點擊 [啟動智慧安裝導引]。
7. 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。
8. 點擊 [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. 點擊 [下一步]。
11. 選擇 [自動取得 IP 位址 (DHCP)]。
12. 點擊 [下一步]。
13. 選擇將用於存取 NAS 共用資料夾的裝置類型。
14. 點擊 [下一步]。
15. 檢視設定值。
16. 點擊 [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. 點擊 [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，然後點擊 [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. 點擊 [下一步]。

8. 您可以執行下列動作。

- 若要取得最新提供的版本，請點擊 [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，請點擊 [略過]。

9. 點擊 [啟動智慧安裝導引]。

10. 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。

11. 點擊 [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. 點擊 [下一步] 。

14. 選擇 [自動取得 IP 位址 (DHCP)] 。

15. 點擊 [下一步] 。

16. 選擇將用於存取 NAS 共用資料夾的裝置類型。

17. 點擊 [下一步] 。

18. 檢視設定值。

19. 點擊 [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. 點擊 [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。	<p>以下設定將回復至預設值：</p> <ul style="list-style-type: none"> • 系統管理員密碼：admin • TCP/IP 設定： <ul style="list-style-type: none"> • 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：停用
系統進階重設	按住按鈕 15 秒。	<p>回復為出廠預設值。</p> <ul style="list-style-type: none"> • 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 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	<ul style="list-style-type: none"> • 硬碟正在格式化。 • NAS 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	<ul style="list-style-type: none"> • 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。 • 一個硬碟故障 (非 RAID 1 狀態) 。 • 兩個硬碟都故障。 • 硬體自我檢查發生錯誤。
	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	<ul style="list-style-type: none"> • 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。
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 。
磁碟	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	可存取硬碟。

LED 燈號	狀態	描述
USB	藍燈每 0.5 秒閃爍	<ul style="list-style-type: none"> 偵測到 USB 裝置連接至前方 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。 正在將資料複製到 USB 或 eSATA 裝置，或從 USB 或 eSATA 裝置複製資料到 NAS。
	藍燈	在前方 USB 埠中偵測到 USB 裝置。
	關閉	<ul style="list-style-type: none"> 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。

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。

警示音

期間	頻率	描述
短嗶 (0.5 秒)	1	<ul style="list-style-type: none"> 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	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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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。

熱插拔故障硬碟

NAS 於 RAID 1 的一個硬碟故障時支援熱插拔。

1. 登入 QTS。
2. 前往 [主選單] > [儲存空間總管] > [儲存空間] > [硬碟/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。

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。

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 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
單一	否	N/A
JBOD	是	1
RAID 0	是	1

磁碟 / 磁碟群組	RAID 復原支援	遭移除的硬碟最大數目
RAID 1	是	1

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 ID

用來註冊 myQNAPcloud 帳號的電子郵件地址

myQNAPcloud 雲服務

提供各種遠端存取服務，例如 DDNS 與 myQNAPcloud Link

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、授權以及聯合法規的相關資訊。

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Version 3, 29 June 2007

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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.
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- 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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