


The QNAP logo is displayed in white, bold, uppercase letters within a blue rounded rectangular box in the top-left corner of the page.

# QSW-IM3216-8S8T

## 使用手冊

A large, abstract graphic of a network or data structure occupies the lower half of the page. It consists of numerous interconnected nodes (dots) of various colors (white, blue, black, red) and thin lines connecting them, creating a complex web-like pattern that transitions from light blue at the top to dark blue at the bottom.

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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 QSW-IM3216-8S8T 交換器基本資訊。

### 關於 QSW-IM3216-8S8T

QNAP QSW-IM3216-8S8T 是 QSW 網管型交換器，專為工作室環境與 AV over IP (Audio-Visual over Internet Protocol) 應用而設計。該交換器提供 16 個 10 GbE 連接埠，其中有 8 個 RJ45 連接埠，其他 8 個連接埠提供 SFP+ 光纖連接的彈性選項。

此交換器的高傳輸量適用於需大量資料傳輸速率的高效能 NAS 環境。其支援 AV over IP 技術，允許透過乙太網路或光纖網路傳輸音訊與視覺訊號，相較於傳統 HDMI 連接線，其是更為經濟實惠且靈活的解決方案。針對配置與管理，交換器包含 RJ45 主控台連接埠，用於直接電腦連接，以及 1 個 GbE 的管理連接埠，用於遠端存取。

交換器支援 9 至 54 V 的備援 DC 電源輸入，即使在電源故障的情況也能保證持續運作。其堅固的結構與先進的功能使其適合需要高可靠性及性能的工業網路。

### 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>。

#### 重要

- 僅限於室內使用：本產品僅適用於室內環境使用。
- DC 輸入電源纜線長度限制：DC 輸入電源纜線長度不應超過 3 公尺 (9.8 英尺)。此長度限制用於保護低壓設備免受電壓突波尖峰的影響。

元件	QSW-IM3216-8S8T
處理器	
CPU	Marvell® 98DX3550
晶片組	Marvell® 98DX3550
記憶體	1 GB
網路介面	<ul style="list-style-type: none"> <li>• 8 x 10G/5G/2.5G/1G/100M RJ45 連接埠</li> <li>• 8 x 10G/1G SFP+ 連接埠</li> <li>• 繼電器連接埠</li> </ul>



元件	QSW-IM3216-8S8T
管理介面	<ul style="list-style-type: none"> <li>主控台連接埠：1 x RJ45 連接埠</li> <li>管理連接埠：1 x Marvell® 88E1512 1 GbE 連接埠</li> </ul>
介面	
按鈕	交換器重設
LED 燈	
系統	<ul style="list-style-type: none"> <li>狀態</li> <li>電源</li> <li>定位器</li> </ul>
連接埠	<ul style="list-style-type: none"> <li>速度</li> <li>連結</li> <li>活動</li> </ul>
尺寸	
外觀規格	1U 機架式
尺寸 (高 x 寬 x 深)	43.5 x 285 x 231.5 mm (1.71 x 11.22 x 9.11 in)
淨重	4.26 kg (9.39 lbs)
其他	
電源供應器	<ul style="list-style-type: none"> <li>DC 插孔：12V，8A (96W) 變壓器至電壓輸入 1 (VIN1)</li> <li>Euroblock：透過電壓輸入 2 與 3 (VIN2 與 VIN3) 提供備援電源的輸入電壓介於 9V 至 54V 之間</li> </ul> <div style="border: 1px solid #ccc; background-color: #e6f2ff; padding: 5px; margin-top: 10px;"> <p><b>注意</b> 如需電壓輸入的詳細資訊，請參見：<a href="#">後面板</a>。</p> </div>
最大耗電量	47.463W
系統電池	3V 鈕扣鋰電池，200 mAh，20 x 3.2 mm，Panasonic BR-2032/BN、BR2032、CCL 且符合 RoHS



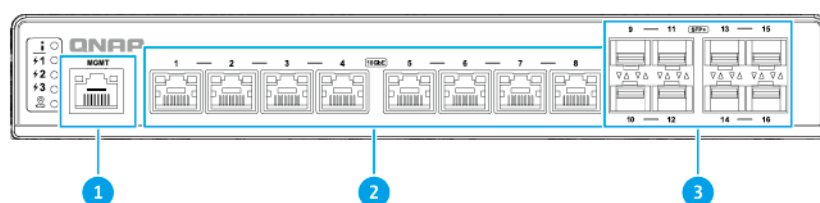
元件	QSW-IM3216-8S8T
操作溫度	<ul style="list-style-type: none"> <li>自然對流操作溫度：-30°C 至 65°C (-22°F 至 149°F)</li> </ul> <p><b>注意</b> 交換器放置於開放空間或機架，會於特定溫度範圍內進行最佳化運作，無需額外冷卻措施。</p> <ul style="list-style-type: none"> <li>非自然對流操作溫度：-30°C 至 45°C (-22°F 至 113°F)</li> </ul> <p><b>注意</b> 交換器透過風扇、空調或液體冷卻等外部機制冷卻時，會於特定溫度範圍內最佳化運作。</p>
相對溼度	<ul style="list-style-type: none"> <li>不凝結相對溼度：5% 至 95%</li> <li>溼球溫度：27°C (80.6°F)</li> </ul>
安全插槽	Kensington 安全插槽

## 包裝內容

項目	數量
QSW-IM3216-8S8T	1
電源線	1
AC 電源變壓器	1
滑軌支架	2
機架滑軌	2
橡膠腳座	4
快速安裝手冊 (QIG)	1

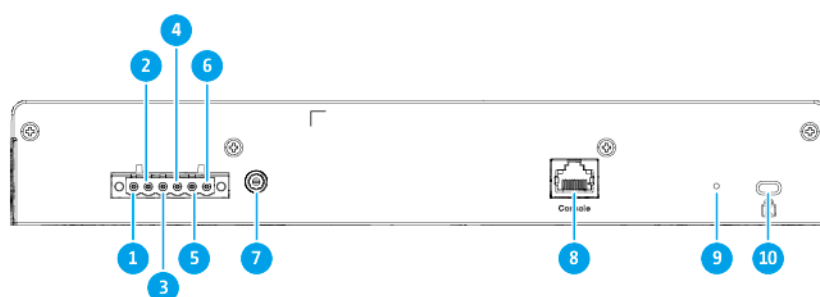
## 元件

### 前面板



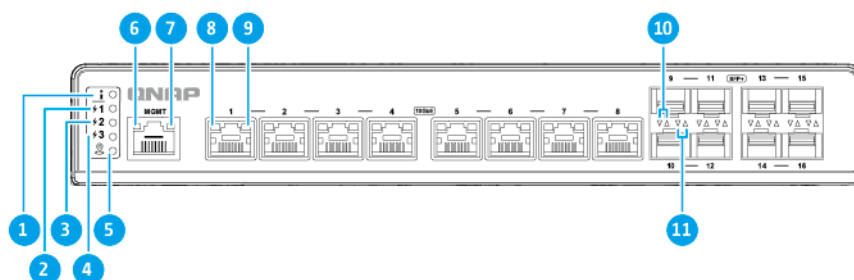
編號	元件	編號	元件
1	管理連接埠	3	10 Gigabit 乙太網路埠 (SFP+)
2	10 Gigabit 乙太網路埠 (RJ45)	-	-

### 後面板



編號	元件	編號	元件
1	電壓輸入 3 正極端 (VIN3 +)	6	電壓輸入 2 負極端 (VIN2 -)
2	電壓輸入 3 負極端 (VIN3 -)	7	DC 電源插孔 (VIN1)
3	繼電器連接埠 RELAYCOM (共接點)	8	主控台連接埠
4	繼電器連接埠 RELAYNO (常開接點)	9	交換器重設按鈕
5	電壓輸入 2 正極端 (VIN2 +)	10	Kensington 安全插槽

## 前面板 LED 燈



### 注意

關於 10 Gigabit SFP+ 連接埠，向上的 LED 燈箭頭對應上排連接埠，而向下的 LED 燈箭頭對應下排連接埠。

編號	元件	編號	元件
1	系統狀態 LED 燈	7	管理連接埠連結與活動 LED 燈
2	電源供應器 1 (VIN1) LED 燈	8	10 Gigabit 乙太網路 LED 燈：10 Gbps 速度

編號	元件	編號	元件
3	電源供應器 2 (VIN2) LED 燈	9	10 Gigabit 乙太網路 LED 燈：100M /1G / 2.5G /5G 速度
4	電源供應器 3 (VIN3) LED 燈	10	10 Gigabit SFP+ LED 燈：10 Gbps 速度
5	定位器 LED 燈	11	10 Gigabit SFP+ LED 燈：1 Gbps 速度
6	管理連接埠速度 LED 燈	-	-

## 3. 安裝與存取

本章說明特定硬體安裝與交換器存取步驟。

### 安裝需求

類別	項目
環境	<ul style="list-style-type: none"> <li>室溫：               <ul style="list-style-type: none"> <li>自然對流操作溫度：-30°C 至 65°C (-22°F 至 149°F)</li> <li>非自然對流操作溫度：-30°C 至 45°C (-22°F 至 113°F)</li> </ul> </li> <li>不凝結相對溼度：5% 至 95%</li> <li>溼球溫度：27°C (80.6°F)</li> <li>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</li> <li>確認沒有物體會阻礙交換器的通風口，或者對交換器或電源線產生壓力。</li> </ul>
硬體和週邊設備	<ul style="list-style-type: none"> <li>電腦或 NAS</li> <li>網路線</li> </ul>
工具	<ul style="list-style-type: none"> <li>1 號或 2 號十字螺絲起子</li> <li>平頭螺絲起子</li> <li>防靜電腕帶</li> </ul>

### 設定交換器

- 將交換器置於符合需求的環境。  
如需詳細資訊，請參見：[安裝需求](#)。
- 將交換器的 AC 電源線連接至運作中的 AC 電源插座。
- 連接交換器至電腦或網路。  
如需詳細資訊，請參見：[將交換器連接至電腦或網路](#)。
- 登入 QSS。

### 將交換器連接至電腦或網路

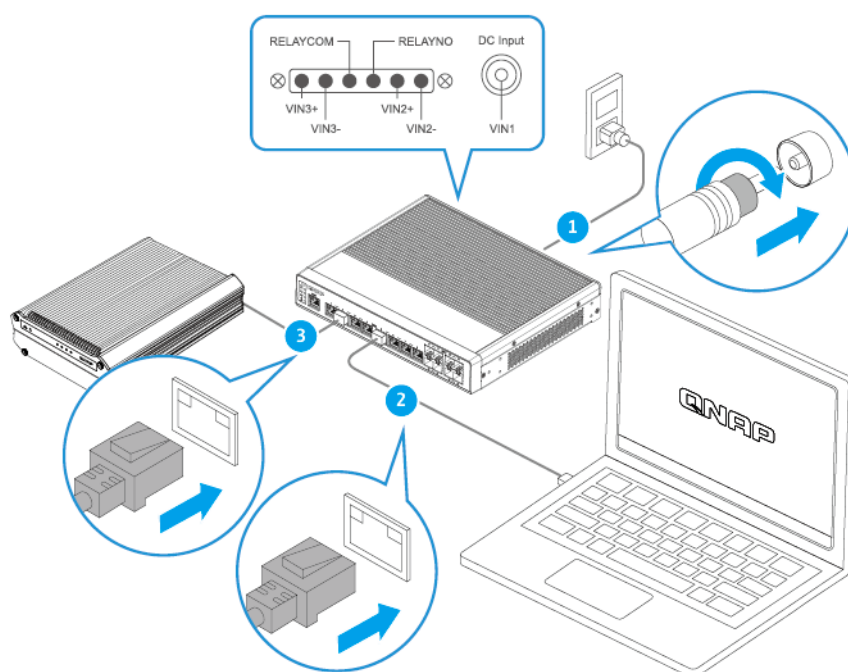
您可將交換器連接至電腦或區域網路。如需詳細資訊，請參見下列主題：

- [將交換器連接至電腦](#)
- [將交換器連接至網路](#)

## 將交換器連接至電腦

您可透過將網路線連接交換器的主機連接埠，將交換器連接 QNAP NAS，來擴充儲存容量並將資料備份至另一台 NAS。但是，您必須將交換器連接至電腦來編輯設定。

1. 將交換器的 AC 電源線連接至運作中的 AC 電源插座。
2. 將交換器連接至電腦。
  - a. 將網路線連接至交換器上的主機連接埠。
  - b. 將網路線連接至電腦上的 Gigabit 網路連接埠。
  - c. 選擇性: 將交換器連接到 NAS。



### 重要

- QSW-IM3216-8S8T 專為工業應用而設計。請確認您使用正確類型的裝置連接器。
- 本裝置支援 VIN1、VIN2 與 VIN3 電壓輸入範圍為 9 至 54 V。

3. 確認電腦可辨識交換器。
  - a. 在主機電腦中開啟 Qfinder Pro。

### 注意

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

- b. 從清單中尋找交換器。

## 將交換器連接至網路

您可透過主機連接埠，將交換器連接至區域網路。

1. 將交換器的 AC 電源線連接至運作中的 AC 電源插座。
2. 利用主機連接埠，將交換器連接至區域網路。
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. 在清單中找到交換器，然後在名稱或 IP 位址上按兩下。  
QSS 登入畫面隨即出現。

## 交換器存取

方式	說明	需求
網頁瀏覽器	<p>如果具備下列資訊，就可以使用相同網路內的任何電腦存取交換器：</p> <ul style="list-style-type: none"> <li>• 交換器名稱 (例如：<a href="http://example123/">http://example123/</a>) 或 IP 位址</li> <li>• 登入有效使用者帳戶的認證資料</li> </ul> <p>如需詳細資訊，請參見：<a href="#">透過瀏覽器存取交換器</a>。</p>	<ul style="list-style-type: none"> <li>• 與交換器連接相同網路的電腦</li> <li>• 網頁瀏覽器</li> </ul>
Qfinder Pro	<p>Qfinder Pro 是一款桌面應用工具，可讓使用者定位和存取特定網路內的 QNAP 裝置。此應用工具支援 Windows、macOS 及 Linux。</p> <p>如需詳細資訊，請參見：<a href="#">透過 Qfinder Pro 存取交換器</a>。</p>	<ul style="list-style-type: none"> <li>• 與交換器連接相同網路的電腦</li> <li>• 網頁瀏覽器</li> <li>• Qfinder Pro</li> </ul>

## 透過瀏覽器存取交換器

如果您知道交換器的 IP 位址以及有效使用者帳戶的登入認證資料，就可以從網路上使用任何電腦來存取交換器。QNAP 交換器預設支援 DHCP 客戶端設置作為 IP 分配。連線至網路時，交換器將自動保留來自 DHCP 伺服器的 IP 位址。



**注意**

- 如果您不知道交換器的 IP 位址，可以使用 Qfinder Pro 尋找位址。
- 如果交換器未連接 DHCP 支援的網路，可透過將電腦的 IP 位址變更為 169.254.100.102 來存取交換器網頁介面。
- 交換器的預設 IP 位址為 169.254.100.101。

1. 請確認您的電腦與交換器連線到相同的網路。
2. 開啟電腦的網頁瀏覽器。
3. 在網址列中輸入交換器的 IP 位址。  
登入畫面隨即顯示。
4. 設定使用者名稱與密碼。

預設使用者名稱	預設密碼
admin	如需預設密碼的詳細資訊，請參閱 <a href="#">此常見問題</a> 。

5. 按一下 **[登入]**。

**[總覽]** 頁面隨即顯示。

**重要**

請在設定交換器後，確保電腦的 IP 位址已更改為原始設置。

## 透過 Qfinder Pro 存取交換器

1. 在與交換器連接到相同網路的電腦上安裝 Qfinder Pro。

**提示**

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

2. 開啟 Qfinder Pro。  
Qfinder Pro 會自動搜尋網路內的所有 QNAP 裝置。
3. 在清單中找到交換器，然後在名稱或 IP 位址上按兩下。  
登入畫面隨即顯示。

4. 設定使用者名稱與密碼。

預設使用者名稱	預設密碼
admin	如需預設密碼的詳細資訊，請參閱 <a href="#">此常見問題</a> 。

5. 按一下 [登入] 。

[總覽] 頁面隨即顯示。

**重要**

請在設定交換器後，確保電腦的 IP 位址已更改為原始設置。

## 4. 基本操作

本章介紹交換器的基本操作。

### LED 燈

LED 燈指示交換器開機時的系統狀態與相關資訊。下列 LED 燈資訊僅適用於交換器已連接至網路的情況。

如需 LED 燈的位置資訊，請參見：[前面板 LED 燈](#)。

#### 系統狀態 LED 燈

狀態	說明
綠燈	<ul style="list-style-type: none"> <li>裝置就緒。</li> <li>韌體已更新。</li> <li>密碼已重設。</li> <li>裝置已重設為出廠預設設定。</li> </ul>
綠燈閃爍	<ul style="list-style-type: none"> <li>裝置正在初始化。</li> <li>韌體正在更新。</li> </ul> <div style="background-color: #fff9c4; padding: 10px; margin: 10px 0;"> <p><b>重要</b> 請勿在韌體更新期間拔下電源線，也不要強制結束應用程式。</p> </div> <ul style="list-style-type: none"> <li>裝置正在重設。</li> <li>裝置密碼正在重設。</li> </ul>
紅燈	<ul style="list-style-type: none"> <li>發生系統錯誤。</li> <li>偵測到網路迴圈。</li> <li>系統過熱</li> <li>風扇發生錯誤。</li> </ul> <div style="background-color: #e1eef6; padding: 10px; margin: 10px 0;"> <p><b>注意</b> 如需詳細資訊，請參閱系統記錄。</p> </div>

狀態	說明
熄滅	<ul style="list-style-type: none"> <li>• 裝置已關機。</li> <li>• 裝置已準備好密碼重設。</li> <li>• 裝置已準備好恢復出廠設定。</li> </ul>

### 電源供應器 1 (VIN1) LED 燈

狀態	說明
綠燈	電壓輸入 1 (VIN1) 的電源正常運作。
熄滅	未偵測到 VIN1 電源。

### 電源供應器 2 (VIN2) LED 燈

狀態	說明
綠燈	電壓輸入 2 (VIN2) 的電源正常運作。
紅燈	VIN2 發生故障，但 VIN3 維持電源供應。
熄滅	未偵測到 VIN2 電源。

### 電源供應器 3 (VIN3) LED 燈

狀態	說明
綠燈	電壓輸入 3 (VIN3) 的電源正常運作。
紅燈	VIN3 發生故障，但 VIN2 維持電源供應。
熄滅	未偵測到 VIN3 電源。

## 定位器 LED 燈

狀態	說明
琥珀色燈閃爍	裝置正在定位。  <b>注意</b> 當定位器功能已啟用，定位器 LED 燈會閃爍 30 分鐘。
熄滅	定位器功能已停用。

## 管理 RJ45 速度 LED 燈

狀態	說明
綠燈	網路執行速度為 1 Gbps。
琥珀色燈	網路執行速度為 100 Mbps。
綠燈或琥珀色燈閃爍	資料傳送中。
熄滅	無網路連線。

## 管理 RJ45 連結與活動 LED 燈

狀態	說明
琥珀色燈	管理連接埠作為上行連接埠運作。
琥珀色燈閃爍	資料傳送中。
熄滅	無網路連線。

## 10 Gigabit 乙太網路 LED 燈

狀態	說明
綠燈	網路執行速度為 10 Gbps。
綠燈閃爍	正在從 10 Gbps 網路存取裝置。
琥珀色燈	網路執行速度為 100 Mbps、1 Gbps、2.5 Gbps 或 5 Gbps。

狀態	說明
琥珀色燈閃爍	裝置從 100 Mbps、1 Gbps、2.5 Gbps 或 5 Gbps 網路存取。
熄滅	<ul style="list-style-type: none"> <li>電纜沒有連接至連接埠。</li> <li>自動協調失敗。</li> <li>發生連結速度不匹配。</li> <li>連接埠連接失敗。</li> <li>透過交換器介面停用連接埠。</li> <li>偵測到網路迴圈，迴圈防護已停用連接埠。</li> </ul>

### 10 Gigabit SFP+ LED 燈

狀態	說明
綠燈	網路執行速度為 10 Gbps。
綠燈閃爍	正在從 10 Gbps 網路存取裝置。
琥珀色燈	網路執行速度為 1 Gbps。
琥珀色燈閃爍	正在從 1 Gbps 網路存取裝置。
熄滅	<ul style="list-style-type: none"> <li>電纜沒有連接至連接埠。</li> <li>連接埠在 QSS 被停用。</li> <li>偵測到網路迴圈，迴圈防護已停用連接埠。</li> </ul>

## 重設按鈕

操作	使用者動作	結果
基本系統重設	按住按鈕 5 秒。	以下設定將回復至預設值： <ul style="list-style-type: none"> <li>系統管理員密碼：如需預設密碼的詳細資訊，請參閱<a href="#">此常見問題</a>。</li> </ul>
進階系統重設	按住按鈕 10 秒。	回復為出廠預設值。

## 繼電器連接埠

QSW 網管型交換器的繼電器連接埠可供交換器切換機制來控制外接電氣裝置，例如警報或鈴聲。繼電器是通過電力執行的交換器，可以開啟或關閉電路，讓低電流控制訊號來切換高電流裝置的開關。

繼電器連接埠包括兩個主終端：RELAYNO (常開接點) 與 RELAYCOM (共接點)。

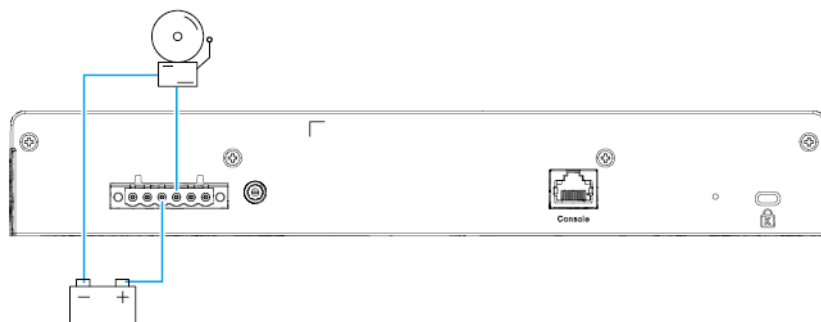
- RELAYNO 是連接交換器的一側。繼電器持續保持開啟狀態，直到電路導通才會關閉。
- RELAYCOM 是交換器的共接點，連接電源供應器或控制電路。

如需繼電器連接埠的位置資訊，請參見：[後面板](#)。

### 注意

- 繼電器在沒有內部電源的情況執行，並且僅只用作電磁切換使用。若要使繼電器來控制外部裝置，您必須連接外部電源供應器。
- 繼電器可處理高達 20V DC 電壓與 1A 電流。請確保連線的裝置不超過這些額定功率。

1. 將交換器的 RELAYNO 連接至火災警報器。
2. 將交換器的 RELAYCOM 連接至外部電源供應器的正極。
3. 將外部電源供應器的負極連接到火災警報器。





## 5. 支援和其他資源

QNAP 提供下列資源：

資源	URL
文件	<a href="https://download.qnap.com">https://download.qnap.com</a>
服務入口網站	<a href="https://service.qnap.com">https://service.qnap.com</a>
下載	<a href="https://download.qnap.com">https://download.qnap.com</a>
社群論壇	<a href="https://forum.qnap.com">https://forum.qnap.com</a>

## 6. 詞彙

### **Qfinder Pro**

QNAP 應用工具可讓您定位及存取區域網路內的 QNAP 裝置

### **QSS**

QNAP 交換器管理作業系統

## 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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- 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.



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VCCI-A

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D33B77  
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金属螺帽	0	0	0	0	0	0
电缆组装	0	0	0	0	0	0
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