


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

用户指南

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 (blue, white, 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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目录

1. 重要信息	
安全信息.....	3
2. 产品概述	
关于 QSW-IM3216-8S8T.....	6
硬件规格.....	6
包装内容.....	8
组件.....	9
前面板.....	9
后面板.....	9
前面板 LED.....	10
3. 安装和访问	
安装要求.....	12
设置交换机.....	12
将交换机连接到计算机或网络.....	12
将交换机连接到计算机.....	13
将交换机连接到网络.....	14
交换机访问.....	15
使用浏览器访问交换机.....	15
使用 Qfinder Pro 访问交换机.....	16
4. 基本操作	
LED.....	17
重置按钮.....	20
继电器端口.....	21
5. 支持和其他资源	
6. 术语表	
Qfinder Pro.....	23
QSS.....	23
7. 声明	
有限保修.....	24
免责声明.....	24
版权和商标.....	24
GNU General Public License.....	25
CE 声明.....	33
FCC 声明.....	34
VCCI 声明.....	34
BSMI 声明.....	35
SJ/T 11364-2006.....	35
废弃电子电气设备 (WEEE) 欧盟指令 2002/96/EC.....	36

EU RoHS 声明.....	36
激光合规声明.....	36
UKCA 声明.....	36

1. 重要信息

原始包装

请保留原始包装和包装材料。如果要产品退货或寄回进行修理，请使用原始包装以免损坏。

对于因包装不当受损的产品，QNAP 保留不提供退款或保修服务的权利。

硬件缺陷

如果您的 QNAP 产品有硬件方面的缺陷，请将产品退回 QNAP 或 QNAP 授权的服务中心进行维修或更换。您本人或未经授权的第三方对产品进行的任何维修或维护流程均会使保修失效。

对于因未经授权进行的修改和安装不受支持的第三方应用程序而造成的任何损坏或数据丢失，QNAP 概不负责。

有关详细信息，请参见 [QNAP 产品保修服务条款](#)。

安全信息

以下说明有助于确保个人安全和环境安全。在执行任何操作之前，请仔细阅读这些说明。

一般说明

- 设备应存放在通过器具、锁和钥匙或任何安保措施限制进入的安全场所。
- 只有经过授权并掌握技能的合格人员才能实际接触设备，相关人员需了解所有限制措施、安全预防措施和安装维护流程。

警告



为避免潜在伤害或组件的损坏，请务必等硬盘和其他内部系统组件冷却后再触碰。



请执行静电放电 (ESD) 规程，以避免可能的人员受伤或组件受损。

电源

警告



为降低失火或触电风险，请确保只将电源线连接到接地良好的电源插座。



为避免受到严重伤害，安装或更换系统组件前，经培训的维修技师必须先从设备拔下所有电源单元线。

运动的部件

警告



转动的风扇叶片： 在设备连接到电源时，使您的身体各部位远离任何正在转动的风扇叶片。



运动的组件： 使您的身体各部位远离任何正在运动的其他组件。

设备不适合在儿童可能会出现场所使用。

系统电池

警告



摄入危险

- 此产品配有纽扣电池。
- 请避免儿童接触电池。
- 如果被吞食，锂纽扣电池可能会在 2 小时内导致严重或致命伤害。
- 如果您认为可能电池已被吞食或部于身体的某个部位，请立即就医求助。

- 为避免潜在的电池爆炸、导致人员受伤或组件受损，请确保使用同型电池更换现有电池。
- 请按当地法规或电池制造商的指示正确处置使用过的电池。
- 即使是使用过的电池，也可能导致严重伤害或死亡。
- 有关诊疗信息，请致电当地中毒控制中心。
- 有关设备中纽扣电池类型和电压的信息，请参见硬件规格表。

- 非充电电池不可充电。
- 请勿强行放电、充电、拆卸、加热或焚烧。这样做可能会导致因通风、泄漏或爆炸造成的化学烧伤而导致的伤害。
- 确保电池按照极性 (+ 和 -) 正确安装。
- 请勿将新旧电池或不同品牌、不同类型的电池 (如碱性电池、碳锌电池、充电电池等) 混用。
- 对于长时间不使用的设备, 请根据当地法规取出并立即回收或处理电池。
- 始终完全固定电池盒。如果电池盒无法牢固关闭, 请停止使用本产品, 取出电池, 并将电池置于儿童接触不到的地方。

导轨套件

机架式型号可能需要导轨套件以便安装到服务器机架或机柜上。

为确保设备和人身安全, 在安装导轨套件和安装设备之前, 请仔细阅读导轨套件的安装说明。

要检查您的设备是否为机架式设备, 请参见硬件规格表。

警告

- 当导轨套件安装在服务器机架上时, 除安装或拆卸设备外, 请勿将导轨完全展开或拔掉门锁。
- 如果导轨完全展开并拔掉门锁, 可能会导致重型设备坠落。这可能会导致设备损坏, 以及严重甚至致命的伤害。
- 在准备导轨以安装或拆卸设备前, 请仔细阅读并确保理解安装说明。
- 安装或拆卸设备时, 请勿在设备或导轨上放置任何物品或增加任何额外的负重。
- 安装设备时, 请将设备完全推入服务器机架, 使导轨完全锁住, 并将设备固定在服务器机架上。

2. 产品概述

本章提供有关 QSW-IM3216-8S8T 交换机的基本信息。

关于 QSW-IM3216-8S8T

QNAPQSW-IM3216-8S8T 是一款 QSW 托管交换机，专为演播室环境和基于互联网协议的影音 (AV over IP) 应用设计。此交换机提供 16 个 10 GbE 端口，其中 8 个端口使用 RJ45 连接，另外 8 个端口提供 SFP+ 选项，可灵活选用光缆。

此交换机适合因高吞吐量而需要高数据传输速率的高性能 NAS 环境。它支持 AV over IP 技术，支持通过以太网或光纤网络传输影音信号，为传统 HDMI 线缆提供经济高效而灵活的替代方案。为便于配置和管理，此交换机随附一个 RJ45 控制台端口（用于直接连接到计算机），以及一个专用 1 GbE 管理端口（用于远程访问）。

此交换机支持 9-54V 冗余直流电源输入，确保即使在电源发生故障时也能持续运行。其具有坚固的结构和高级功能，适合需要高可靠性和性能的工业网络。

硬件规格

提示

型号规格如有更改，恕不另行通知。要查看最新规格，请转到 <https://www.qnap.com>。

重要

- 仅供室内使用：此产品只能在室内环境使用。
- 直流输入电源线缆长度限制：直流输入电源线缆长度不得超过 3 米（9.8 英尺）。此长度限制是为低压设备免提供针对瞬态电压尖峰的保护。

组件	QSW-IM3216-8S8T
处理器	
CPU	Marvell® 98DX3550
芯片组	Marvell® 98DX3550
内存	1 GB
网络接口	<ul style="list-style-type: none"> • 8 x 10G/5G/2.5G/1G/100M RJ45 端口 • 8 x 10G/1G SFP+ 端口 • 继电器端口

组件	QSW-IM3216-8S8T
管理接口	<ul style="list-style-type: none"> • 控制台端口：1 x RJ45 端口 • 管理端口：1 x Marvell® 88E1512 1 GbE 端口
界面	
按钮	交换机重置
LED	
系统	<ul style="list-style-type: none"> • 状态 • 电源 • 定位器
端口	<ul style="list-style-type: none"> • 速度 • 链路 • 活动
尺寸	
外形规格	1U 机架式
尺寸（高 x 宽 x 深）	43.5 x 285 x 231.5 mm (1.71 x 11.22 x 9.11 英寸)
净重	4.26 kg (9.39 磅)
其他	
电源	<ul style="list-style-type: none"> • 直流插孔：12V，8A (96W) 适配器，连接到电压输入 1 (VIN1) • 欧式接线端子：输入电压 9V 至 54V，适合通过电压输入 2 和 3 (VIN2 和 VIN3) 的冗余电源 <p>注意 有关电压输入的详细信息，请参见后面板。</p>
最大功耗	47.463W
系统电池	3V 纽扣锂电池，200 mAh，20 x 3.2 mm，Panasonic BR-2032/BN，BR2032，符合 CCL 和 RoHS 要求

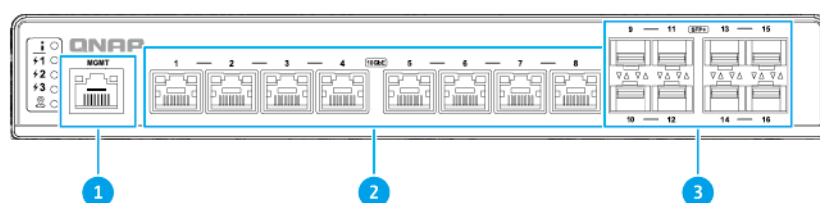
组件	QSW-IM3216-8S8T
工作温度	<ul style="list-style-type: none"> 自然对流工作温度：-30°C 至 65°C (-22°F 至 149°F) <p>注意 当放置在开放空间或机架上时，交换机在此指定温度范围内运行状态最佳，无需任何散热措施。</p> <ul style="list-style-type: none"> 非自然对流工作温度：-30°C 至 45°C (-22°F 至 113°F) <p>注意 当通过外部机制（例如风扇、空调或液冷）散热时，交换机在此指定温度范围内运行状态最佳。</p>
相对湿度	<ul style="list-style-type: none"> 无冷凝相对湿度：5% 至 95% 湿球温度：27°C (80.6°F)
安全锁孔	Kensington 安全锁孔

包装内容

项目	数量
QSW-IM3216-8S8T	1
电源线	1
交流电源适配器	1
导轨支架	2
导轨套件	2
橡胶垫脚	4
快速安装指南 (QIG)	1

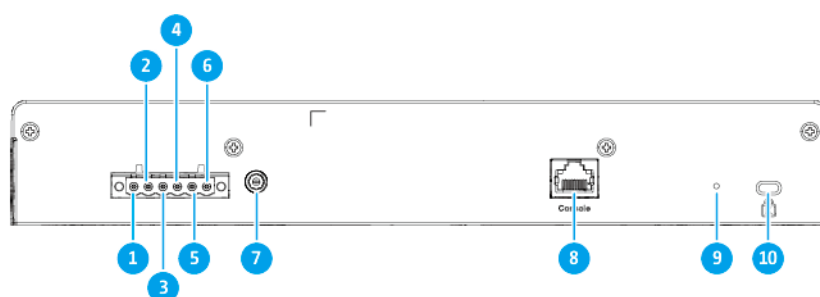
组件

前面板



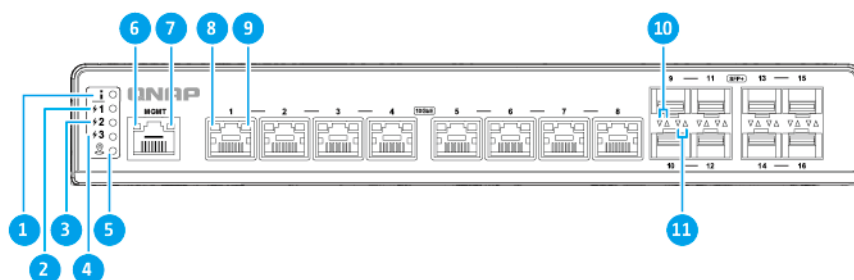
编号	组件	编号	组件
1	管理端口	3	10 Gb 以太网端口 (SFP+)
2	10 Gb 以太网端口 (RJ45)	-	-

后面板



编号	组件	编号	组件
1	电压输入 3 正极 (VIN3 +)	6	电压输入 2 负极 (VIN2 -)
2	电压输入 3 负极 (VIN3 -)	7	直流电源插孔 (VIN1)
3	继电器端口端子 RELAYCOM (公共)	8	控制台端口
4	继电器端口端子 RELAYNO (常开)	9	交换机重置按钮
5	电压输入 2 正极 (VIN2 +)	10	Kensington 安全锁孔

前面板 LED



注意

对于 10 Gigabit SFP+ 端口，向上的 LED 箭头对应于上行的端口，向下的 LED 箭头对应于下行的端口。

编号	组件	编号	组件
1	系统状态 LED	7	管理端口链路和活动 LED
2	电源 1 (VIN1) LED	8	10 Gb 以太网 LED: 10 Gbps 速度

编号	组件	编号	组件
3	电源 2 (VIN2) LED	9	10 Gb 以太网 LED: 100M/1G/2.5G/5G 速度
4	电源 3 (VIN3) LED	10	10 Gb SFP+ LED: 10 Gbps 速度
5	定位器 LED	11	10 Gb SFP+ LED: 1 Gbps 速度
6	管理端口速度 LED	-	-

3. 安装和访问

本章提供特定硬件安装和交换机访问步骤。

安装要求

类别	项目
环境	<ul style="list-style-type: none"> • 室温： <ul style="list-style-type: none"> • 自然对流工作温度：-30°C 至 65°C (-22°F 至 149°F) • 非自然对流工作温度：-30°C 至 45°C (-22°F 至 113°F) • 无冷凝相对湿度：5% 至 95% • 湿球温度：27°C (80.6°F) • 平坦的防静电表面，无直射阳光、液体或化学药剂 • 无可能阻塞交换机通风或者压住交换机或电源线的物品。
硬件和外围设备	<ul style="list-style-type: none"> • 计算机或 NAS • 网线
工具	<ul style="list-style-type: none"> • 1 号或 2 号十字螺丝刀 • 平头螺丝刀 • 防静电腕带

设置交换机

1. 将交换机置于符合要求的环境中。
有关详细信息，请参见[安装要求](#)。
2. 将交换机的交流电源线连接到带电交流插座。
3. 将交换机连接到计算机或网络。
有关详细信息，请参见[将交换机连接到计算机或网络](#)。
4. 登录 QSS。

将交换机连接到计算机或网络

可以将交换机连接到计算机或局域网。有关详细信息，请参见以下主题：

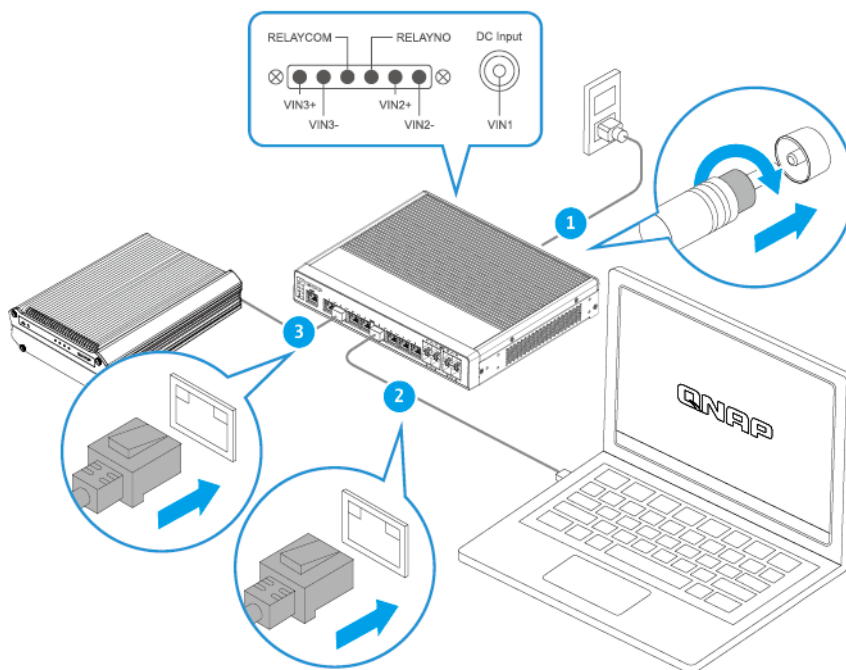
- [将交换机连接到计算机](#)
- [将交换机连接到网络](#)

将交换机连接到计算机

将交换机连接到 QNAP NAS 可以扩展存储容量，还可通过将网线连接到交换机上的主机端口将数据备份到另一 NAS。但是，必须将交换机连接到计算机才能配置设置。

1. 将交换机的交流电源线连接到带电交流插座。
2. 将交换机连接到计算机。
 - a. 将网线连接到交换机上的主机端口。
 - b. 将网线连接到计算机上的千兆位网络端口。

- c. 可选: 将交换机连接到 NAS。



重要

- QSW-IM3216-8S8T 设计用于工业应用。请确保在此设备上使用正确类型的连接器。
- 此设备的电压输入 VIN1、VIN2 和 VIN3 支持 9-54V 的直流输入电压范围。

3. 确认计算机可识别交换机。

- a. 在主机计算机上打开 Qfinder Pro。

注意

要下载 Qfinder Pro，请转到 <https://www.qnap.com/utilities>。

- b. 在列表上找到所需交换机。

将交换机连接到网络

可以通过主机端口将交换机连接到局域网。

1. 将交换机的交流电源线连接到带电交流插座。
2. 通过主机端口将交换机连接到局域网。

3. 在已连接到同一局域网的计算机上运行 Qfinder Pro。

注意

要下载 Qfinder Pro，请转到 <https://www.qnap.com/utilities>。

4. 在列表中找到交换机，然后双击名称或 IP 地址。
此时会出现 QSS 登录屏幕。

交换机访问

方式	描述	要求
Web 浏览器	<p>如果您掌握以下信息，便可使用同一网络上的任意计算机访问交换机：</p> <ul style="list-style-type: none"> • 交换机名称（例如：http://example123/）或 IP 地址 • 有效用户帐户的登录凭据 <p>有关详细信息，请参见使用浏览器访问交换机。</p>	<ul style="list-style-type: none"> • 连接到交换机所在网络的计算机 • Web 浏览器
Qfinder Pro	<p>Qfinder Pro 是一个桌面实用工具，可用于在特定网络上查找并访问 QNAP 设备。此实用工具支持 Windows、macOS 和 Linux。</p> <p>有关详细信息，请参见使用 Qfinder Pro 访问交换机。</p>	<ul style="list-style-type: none"> • 连接到交换机所在网络的计算机 • Web 浏览器 • Qfinder Pro

使用浏览器访问交换机

如果您知道交换机的 IP 地址和有效用户帐户的登录凭据，便可以使用网络上的任何计算机访问此交换机。QNAP 交换机默认支持 DHCP 客户端配置以进行 IP 分配。连接到网络时，交换机将自动从 DHCP 服务器获取 IP 地址。

注意

- 如果不知道交换机的 IP 地址，可以使用 Qfinder Pro 查找该交换机。
- 如果交换机未连接到支持 DHCP 的网络，您可以将计算机的 IP 地址更改为 169.254.100.102 以访问交换机 Web 接口。
- 交换机的默认 IP 地址为 169.254.100.101。

1. 请确认您的计算机与交换机位于同一网络中。
2. 在计算机上打开 Web 浏览器。
3. 在地址栏中键入交换机的 IP 地址。
此时会出现登录页面。

4. 指定用户名和密码。

默认用户名	默认密码
admin	有关默认密码的详细信息，请参见此 常见问题 。

5. 单击登录。

此时会出现概览页面。

重要

设置交换机之后，请确保将计算机的 IP 地址更改为原始配置。

使用 Qfinder Pro 访问交换机

1. 在已连接到交换机所在网络的计算机上安装 Qfinder Pro。

提示

要下载 Qfinder Pro，请转到 <https://www.qnap.com/utilities>。

2. 打开 Qfinder Pro。

Qfinder Pro 会自动搜索网络上的所有 QNAP 设备。

3. 在列表中找到交换机，然后双击名称或 IP 地址。

此时会出现登录页面。

4. 指定用户名和密码。

默认用户名	默认密码
admin	有关默认密码的详细信息，请参见此 常见问题 。

5. 单击登录。

此时会出现概览页面。

重要

设置交换机之后，请确保将计算机的 IP 地址更改为原始配置。

4. 基本操作

本章介绍交换机的基本操作。

LED

开启交换机电源后，LED 指示灯会指示系统状态和相关信息。以下 LED 信息仅适用于交换机已连接到网络的情况。

有关 LED 位置的详细信息，请参见[前面板 LED](#)。

系统状态 LED

状态	描述
绿色	<ul style="list-style-type: none"> 设备已就绪。 固件已更新。 密码已重置。 设备已重置为出厂默认设置。
闪烁绿色	<ul style="list-style-type: none"> 设备正在初始化。 固件正在更新。 <div style="background-color: #fff9c4; padding: 10px; margin: 10px 0;"> <p>重要 更新固件时，请勿拔下电源线，也不要强行退出应用程序。</p> </div> <ul style="list-style-type: none"> 设备正在重置。 设备密码正在重置。
红色	<ul style="list-style-type: none"> 发生系统错误。 检测到网络循环。 系统过热。 发生风扇错误。 <div style="background-color: #e1eef6; padding: 10px; margin: 10px 0;"> <p>注意 有关更多详细信息，请查看系统日志。</p> </div>

状态	描述
熄灭	<ul style="list-style-type: none"> • 设备已关机。 • 设备可进行密码重置。 • 设备可恢复出厂设置。

电源 1 (VIN1) LED

状态	描述
绿色	来自电压输入 1 (VIN1) 的电源正常运行。
熄灭	未检测到来自 VIN1 的电源。

电源 2 (VIN2) LED

状态	描述
绿色	来自电压输入 2 (VIN2) 的电源正常运行。
红色	VIN2 出现故障，但 VIN3 仍有电。
熄灭	未检测到来自 VIN2 的电源。

电源 3 (VIN3) LED

状态	描述
绿色	来自电压输入 3 (VIN3) 的电源正常运行。
红色	VIN3 出现故障，但 VIN2 仍有电。
熄灭	未检测到来自 VIN3 的电源。

定位器 LED

状态	描述
闪烁琥珀色	正在定位交换机。 注意 启用定位器功能时，定位器 LED 闪烁 30 分钟。
熄灭	此时会禁用定位器功能。

管理 RJ45 速度 LED

状态	描述
绿色	网络连接正以 1 Gbps 的速度运行。
琥珀色	网络连接正以 100 Mbps 的速度运行。
闪烁绿色或琥珀色	正在传输数据。
熄灭	没有网络连接。

管理 RJ45 链路和活动 LED

状态	描述
琥珀色	管理端口正在充当上行链路端口。
闪烁琥珀色	正在传输数据。
熄灭	没有网络连接。

10 Gb 以太网 LED

状态	描述
绿色	网络连接正以 10 Gbps 的速度运行。
闪烁绿色	正在从 10 Gbps 网络访问设备。
琥珀色	网络连接正以 100 Mbps、1 Gbps、2.5 Gbps 或 5 Gbps 的速度运行。

状态	描述
闪烁琥珀色	正以 100 Mbps、1 Gbps、2.5 Gbps 或 5 Gbps 的网络速度访问设备。
熄灭	<ul style="list-style-type: none"> • 端口未连接任何线缆。 • 自动协商失败。 • 发生链路速度不匹配。 • 端口链路建立故障。 • 已使用交换机接口禁用端口。 • 检测到网络循环，循环保护已禁用该端口。

10 GB SFP+ LED

状态	描述
绿色	网络连接正以 10 Gbps 的速度运行。
闪烁绿色	正在从 10 Gbps 网络访问设备。
琥珀色	网络连接正以 1 Gbps 的速度运行。
闪烁琥珀色	正在从 1 Gbps 网络访问设备。
熄灭	<ul style="list-style-type: none"> • 端口未连接任何线缆。 • QSS 中已禁用该端口。 • 检测到网络循环，循环保护已禁用该端口。

重置按钮

操作	用户操作	结果
基本系统重置	按住此按钮 5 秒钟。	以下设置将重置为默认值： <ul style="list-style-type: none"> • 系统管理员密码：有关默认密码的详细信息，请参见此常见问题。
高级系统重置	按住此按钮 10 秒钟。	恢复默认出厂设置。

继电器端口

QSW 托管交换机上的继电器端口提供了一个接口，用于使用继电器开关机制控制外部电气设备，例如警报器或警铃。继电器是一种电动开关，可以打开或关闭电路，使低功耗控制信号可以打开或关闭高功耗设备。

继电器端口有两个主要端子：RELAYNO（常开）和 RELAYCOM（公共）。

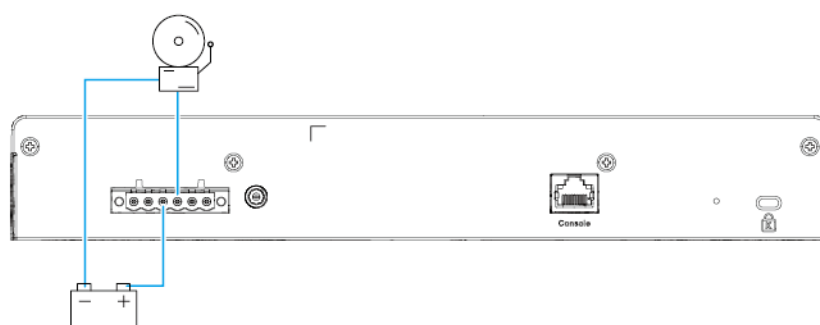
- RELAYNO 端子连接到开关的一端。此端子保持打开状态，在继电器激活时，闭合电路。
- RELAYCOM 端子是开关的公共端，连接到电源或控制电路。

有关继电器端口端子位置的详细信息，请参见[后面板](#)。

注意

- 继电器工作时无需内部电源，仅充当电磁开关。要使用继电器控制外部设备，必须连接外部电源。
- 继电器可以承载最高 20V DC 和 1A。确保连接的设备不超过这些额定功率。

1. 将交换机上的 RELAYNO 端子连接到火警报警器。
2. 将交换机上的 RELAYCOM 端子连接到外部电源的正极。
3. 将外部电源的负极连接到火警报警器。



5. 支持和其他资源

QNAP 提供了以下资源：

资源	URL
文档	https://download.qnap.com
服务门户	https://service.qnap.com
下载	https://download.qnap.com
社区论坛	https://forum.qnap.com

6. 术语表

Qfinder Pro

一种 QNAP 实用工具，可用于查找和访问局域网中的 QNAP 设备

QSS

QNAP 交换机管理操作系统

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Version 3, 29 June 2007

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FCC A 类声明



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电缆组装	0	0	0	0	0	0
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电力供应组 装	0	0	0	0	0	0
电池	0	0	0	0	0	0

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