



QNAP

QuCPE-303x

QuCPE-3032
QuCPE-3034

用户指南

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1. 前言





关于本指南

本指南提供有关设备的信息以及有关硬件安装的分步说明。此外，还提供了有关基本操作和故障排除信息的说明。

受众

本文档的目标读者为用户和存储管理员。本指南假定用户已对存储和备份概念有基本了解。

文档约定

符号	描述
	注释，提供默认配置设置和其他补充信息。
	重要注释，提供有关所需配置设置的信息以及其他关键信息。
	提示，提供有关执行任务或配置设置的建议或备选方法。
	警告，提供警告信息，如果忽略此信息，可能会导致潜在损失、伤害甚至死亡。

2. 产品概述

本章提供有关 QNAP 设备的基本信息。

关于 QuCPE-303x

QuCPE-303x 网络虚拟化本地设备是一款专为中小企业设计的通用虚拟化平台。QuCPE-303x 采用支持 Intel® QAT、智能网卡 SR-IOV 和 DPDK 硬件加速技术的功能强大的 Intel® Atom® D 多核处理器。QuCPE-303x 具有增强的带宽和计算性能，可运行多个 VM 和 VNF，适合多用户和多任务业务应用程序。QuCPE-303x 还具有 QNE Network 操作系统，用于链接 VNF 服务和 AMIZ Cloud，以集中部署和管理设备，实现灵活的全自动置备。

硬件规格



警告

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](#)。




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>。

订购部件号	内存
QuCPE-3032-C3558R-8G	8 GB
QuCPE-3034-C3758R-16G	16 GB

组件	QuCPE-3032-C3558R-8G	QuCPE-3034-C3758R-16G
处理器		
CPU	Intel® Atom® C3558R	Intel® Atom® C3758R
频率	4 核 2.4 GHz	8 核 2.4 GHz
架构	x86 64 位	
加密引擎	AES-NI	
内存		
预安装内存	8 GB RAM: 1 x 8 GB DDR4 2400 MHz 无 ECC 功能 UDIMM	16 GB RAM: 2 x 8 GB DDR4 2400 MHz 无 ECC 功能 UDIMM
内存插槽	2 x 288 针 DDR4-2400 UDIMM	
	 注 请仅使用 QNAP 内存模块，以保证系统性能和稳定性。对于有多个内存插槽的设备，请使用规格相同的 QNAP 模块。使用不受支持的模块可能导致性能下降、引发错误或使操作系统无法启动。	
最大内存	UDIMM: 64 GB RAM: 2 x 32 GB	
存储空间		
M.2 SSD 插槽	2 x NVMe	
M.2 SSD 外形规格	2280	

组件	QuCPE-3032-C3558R-8G	QuCPE-3034-C3758R-16G
适用于 4G/5G 模块的 M.2	1 x M.2 3052 PCIe 插槽  注 有关兼容模块的列表，请转到 https://www.qnap.com/compatibility 。	
网络		
10 Gb 以太网端口	2 x 10 GbE SFP+	4 x 10 GbE SFP+
2.5 Gb 以太网端口	8 x 2.5 GbE RJ45	
外部 I/O 端口和扩展插槽		
USB 端口	1 x USB 2.0 A 型 1 x USB 3.2 Gen 1 A 型	
界面		
显示面板	单色背光 LCD 显示屏	
按钮	<ul style="list-style-type: none"> • 确认 • 选择 • 电源 	
尺寸		
外形规格	紧凑	
尺寸（高 x 宽 x 深）	46.65 x 285 x 236.6 mm (1.87 x 11.22 x 9.31 英寸)	
净重	2.17 kg (4.78 磅)	
其他		
功耗	60W	
系统电池	CR2032 锂电池 (3V, 225 mAh)	
风扇	2 x 40 mm, 12V DC 智能风扇	
工作温度	0°C 至 40°C (32 至 104°F)	
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) 	

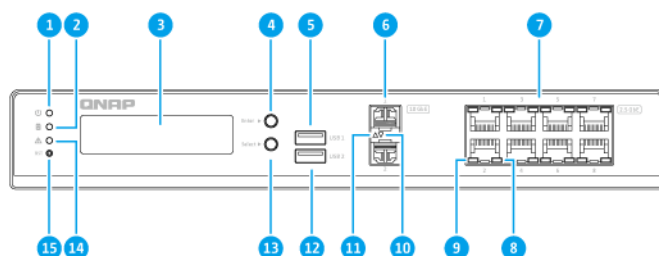
**提示**有关兼容的硬盘型号和扩展卡的列表，请转到 <https://www.qnap.com/compatibility>。

包装内容

项目	数量
QuCPE-303x	1
电源线	1
以太网线	1 x 1GbE (RJ45)
快速安装指南 (QIG)	1

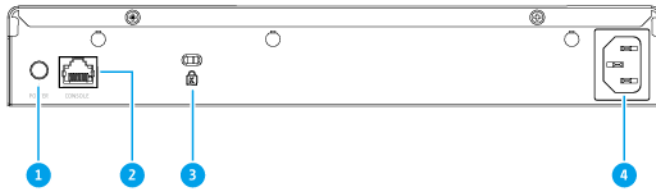
组件

前面板



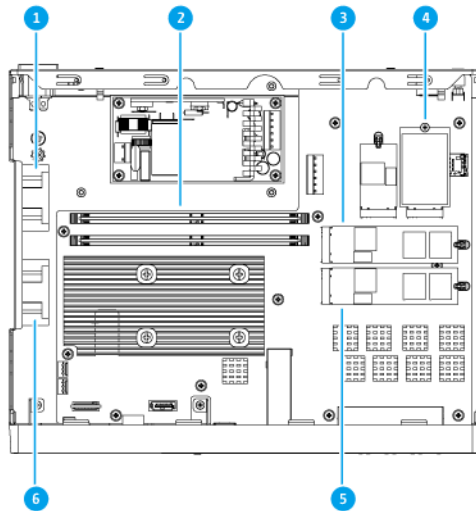
编号	组件	编号	组件
1	电源 LED	9	2.5 Gb 以太网活动 LED
2	硬盘 LED	10	10 Gb 以太网速度 LED
3	LCD 面板	11	10 Gb 以太网活动 LED
4	LCD Enter 按钮	12	USB 3.2 Gen 1 A 型端口
5	USB 2.0 A 型端口	13	LCD Select 按钮
6	10 Gb 以太网端口 (SFP+)	14	警告 LED
7	2.5 Gb 以太网端口 (RJ45)	15	重置按钮
8	2.5 Gb 以太网速度 LED	-	-


后面板



编号	组件	编号	组件
1	电源按钮	3	Kensington 安全锁孔
2	RJ45 控制台端口	4	电源输入

系统主板



编号	组件	编号	组件
1	系统风扇 1	4	M.2 SSD 插槽  注 此插槽保留用于 5G/LTE 模块扩展。
2	内存插槽	5	M.2 SSD 插槽 2
3	M.2 SSD 插槽 1	6	系统风扇 2

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。
- 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

- 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。



配备冗余电源的设备可能有一条或多条电源单元 (PSU) 线。为避免受到严重伤害，安装或更换系统组件前，必须由经培训的维修技师从设备拔下所有 PSU 线。

系统电池

- 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。

运动的部件



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正在转动的风扇叶片。



运动的组件： 使您的身体各部位远离正在运动的其他组件。

安装要求

类别	项目
环境	<ul style="list-style-type: none">• 室温：0°C 至 40°C (32 至 104°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
硬件和外围设备	<ul style="list-style-type: none">• 存储硬盘 有关兼容硬盘型号的列表，请转到 https://www.qnap.com/compatibility。• 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

3. 安装和配置

本章提供了具体的硬件和固件安装与配置步骤。

硬件安装

本节提供有关安装硬盘和内存模块的信息。

安装 M.2 固态硬盘

QuCPE-303x 系列的系统主板上有两个 M.2 SSD 插槽。有关兼容的 M.2 SSD 的列表，请转到 <http://www.qnap.com/compatibility>。



警告

- 安装硬盘将删除硬盘上的所有数据。
- 请执行静电放电 (ESD) 规程，以避免组件损坏。



转动的风扇叶片：使您的双手和身体其他部位远离正在转动的风扇叶片。



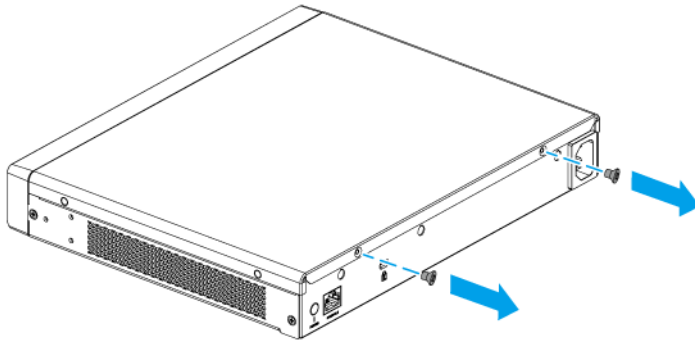
其他运动的组件：使您的双手和身体其他部位远离正在运动的其他组件。



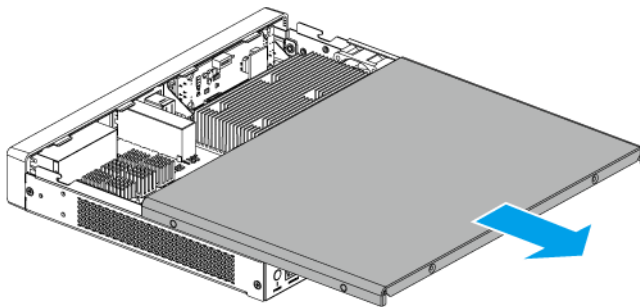
注

- QNAP 建议在 M.2 SSD 控制器上安装散热片，以提高散热效果并确保性能稳定。
- 安装非 QNAP 出品的散热片前，请确保该散热片的尺寸和外形合适。

1. 关闭设备。
2. 从插座上拔下电源线。
3. 拔掉所有线缆和外接部件。
4. 取下外壳盖。
 - a. 松开螺丝。



b. 将盖板向后滑动。



5. 在 M.2 SSD 上安装散热片。

a. 在 M.2 SSD 上找到控制器。

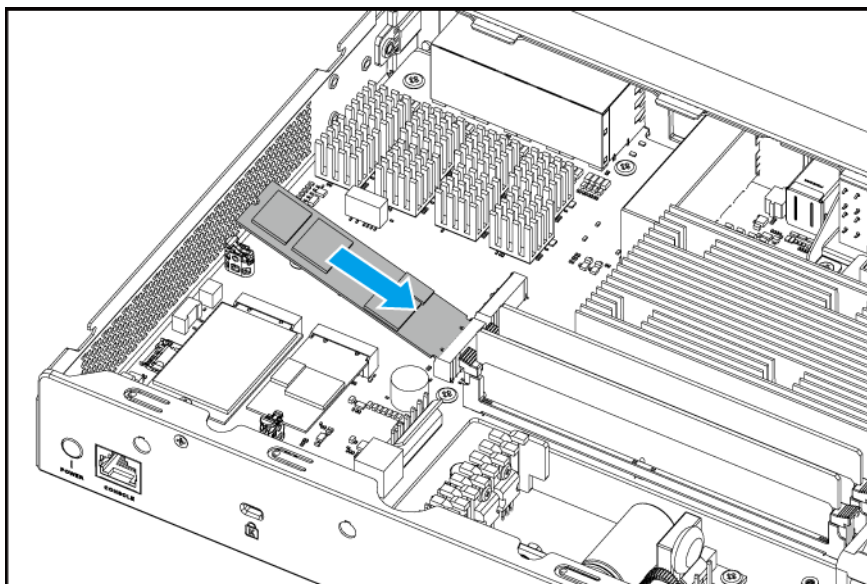


注
控制器位置因 M.2 SSD 的型号和制造商而异。
有关详细信息，请参阅文档或联系制造商。

6. 安装 M.2 SSD。

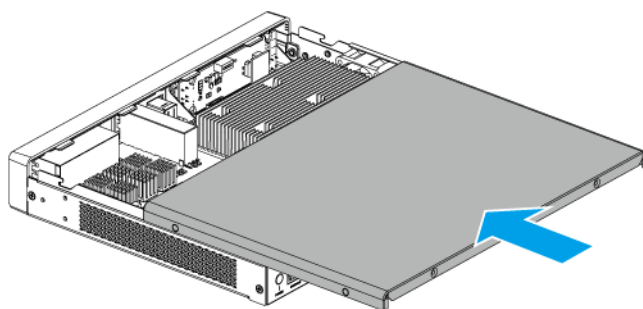
a. 检查 M.2 SSD 连接器是否与插槽对齐。

b. 小心地向下按压 M.2 SSD，直到固定扣将硬盘锁定到位。

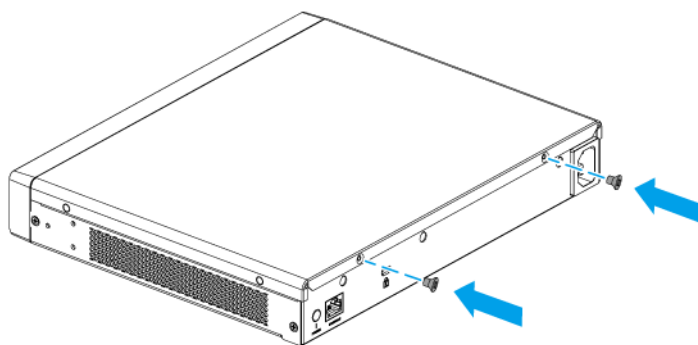


7. 安装外壳盖。

- a. 将盖板放在设备上。
- b. 将盖板向前滑动。



- c. 拧紧螺丝。



8. 连接所有线缆和外接部件。

9. 将电源线连接到插座。

10. 启动设备。

更换内存模块

QuCPE-303x 有两个内存插槽。您可以通过升级内存模块来增加设备的内存容量。为了获得最佳性能，请同时更换所有槽中的内存模块。

请仅使用 QNAP 内存模块，以保证系统性能和稳定性。可以从授权经销商处购买 QNAP 内存模块。



重要

只能全部都使用 ECC 内存模块，或全部都为无 ECC 功能的内存模块。同时安装这两种类型的内存模块将导致 ECC 模块作为无 ECC 功能的模块运行。
始终安装具有相同容量、时序、电压、rank 数和相同品牌的相同内存模块。



警告

- 请执行静电放电 (ESD) 规程，以避免组件损坏。



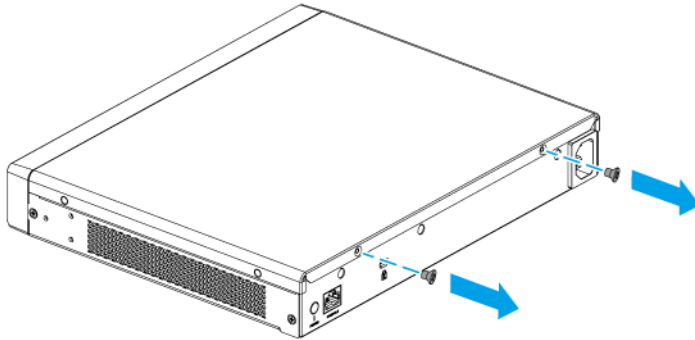
转动的风扇叶片：使您的双手和身体其他部位远离正在转动的风扇叶片。



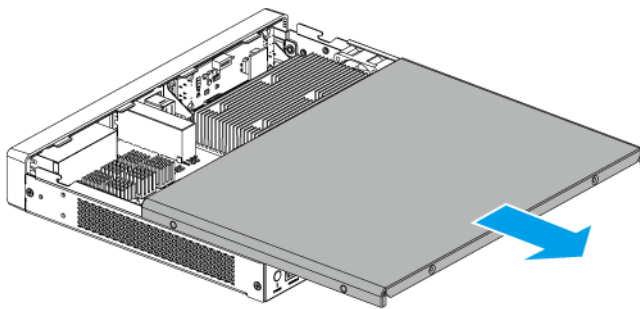
其他运动的组件：使您的双手和身体其他部位远离正在运动的其他组件。

1. 关闭设备。

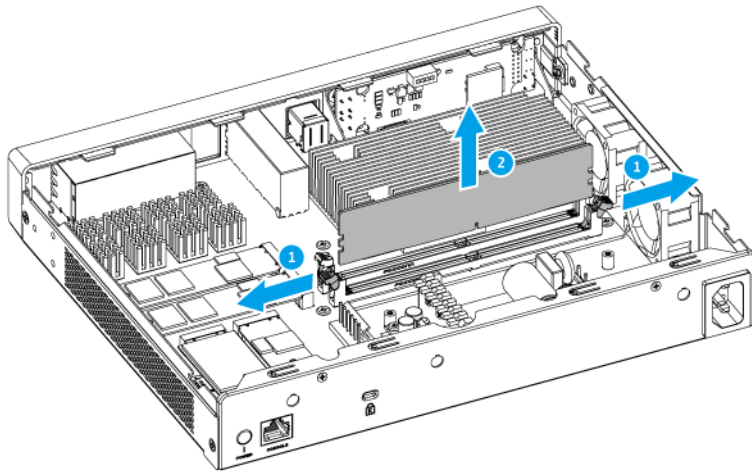
2. 从插座上拔下电源线。
3. 拔掉所有线缆和外接部件。
4. 取下外壳盖。
 - a. 松开螺丝。



- b. 将盖板向后滑动。



5. 取下现有模块。
 - a. 同时向外推动固定夹以释放模块。

**注**

如果尝试在模块尚未完全脱离时将其取出，可能会损坏模块和主板。

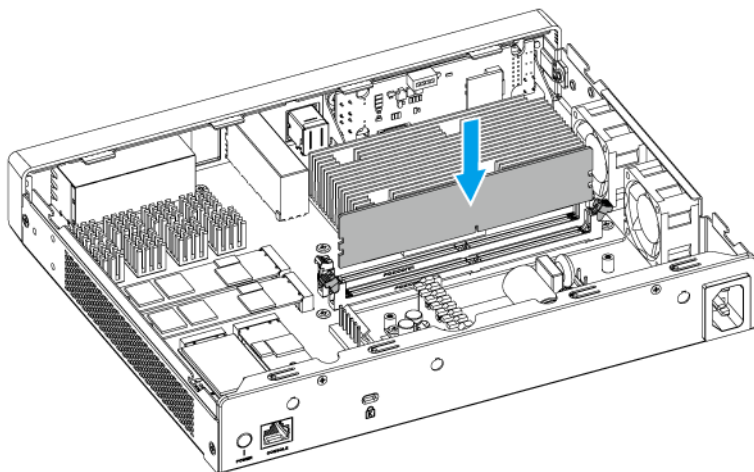
- b. 确认模块向上倾斜并已完全脱离插槽。
- c. 握住模块边缘。
- d. 小心将模块滑出插槽。

**警告**

- 请勿触摸内部组件，特别是金属接头。
- 不要折弯模块。

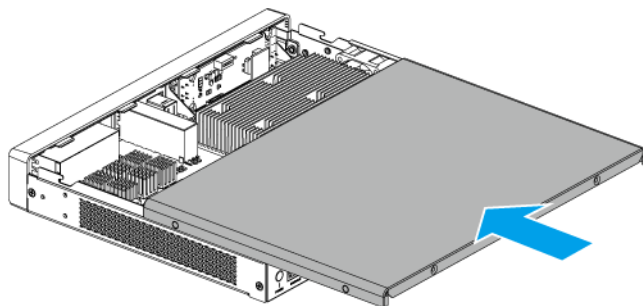
6. 安装新模块。

- a. 将凹口与插槽内的凸起对齐。
- b. 将模块插入插槽中。
- c. 确认金属接头已完全插入插槽中。
- d. 小心地向下按压模块，直到固定夹将模块锁定到位。

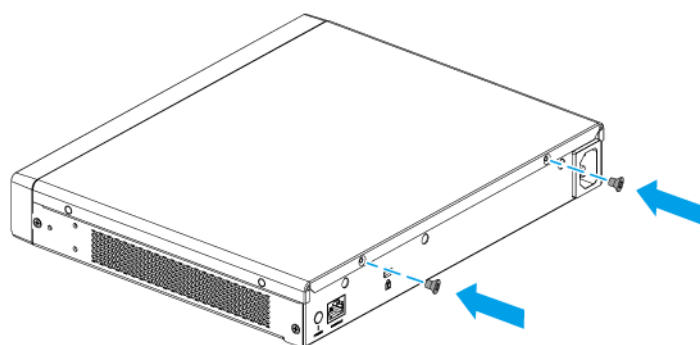


7. 安装外壳盖。

- a. 将盖板放在设备上。
- b. 将盖板向前滑动。



- c. 拧紧螺丝。



8. 连接所有线缆和外接部件。
9. 启动设备。
10. 确认设备能够识别该模块。
 - a. 以管理员身份登录 QNE。
 - b. 转到**控制台 > 系统 > 系统状态 > 硬件信息**。
 - c. 检查每个内存插槽的值。

QNE 安装

QuCPE-303x 使用 QNE 操作系统。可以使用以下任一方法安装 QNE。

方法	描述	要求
Qfinder Pro 安装 (推荐)	如果设备已连接到您的局域网，可以执行以下操作： <ul style="list-style-type: none"> • 使用 Qfinder Pro 定位设备。 • 完成“智能安装指南”向导中的步骤。 	<ul style="list-style-type: none"> • 计算机 • 网线 • Qfinder Pro 安装程序
云安装	如果设备已连接到 Internet，可以执行以下操作： <ul style="list-style-type: none"> • 扫描交换机上的二维码。 • 指定 Cloud Key。 • 登录您的 myQNAPcloud 帐户。 • 使用 myQNAPcloud Link 远程访问设备。 • 完成“智能安装指南”向导中的步骤。 	<ul style="list-style-type: none"> • 计算机或移动设备 • myQNAPcloud 帐户 • Cloud Key

使用独立模式安装 QNE

没有 AMIZ Cloud 连接密钥的用户需要使用独立模式安装 QNE。在独立模式下，可以使用本地帐户分别管理每个 QuCPE 设备。您可以在安装之后切换到云管理模式。



警告

安装 QNE 将删除硬盘上的所有数据。请先备份您的数据，然后再继续。

1. 启动设备。
2. 将设备连接到您的局域网中。
3. 在已连接到同一局域网的计算机上运行 Qfinder Pro。



注

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

4. 在列表中找到设备，然后双击名称或 IP 地址。
智能安装指南将在默认 Web 浏览器中打开。
5. 执行以下任一操作。
 - 要安装立即可用的版本，单击**跳过**。
 - 要检查最新的可用版本，请单击**刷新检查**，然后单击**更新**。向导会下载可供使用的最新版本，下载完成后，设备会重新启动。如果没有更新的版本，向导会自动显示**智能安装指南**。
 - 要手动指定版本，请单击**浏览**，选择文件，然后单击**更新**。
6. 在“独立模式”下单击**开始**。
7. 指定以下信息。
 - **主机名**：指定 1 至 14 个字符的名称。名称支持字母（A 到 Z、a 到 z）、数字（0 到 9）和连字符（-），但不能以连字符结尾。
 - **用户名**：指定 1 至 14 个字符的名称。名称支持字母（A 到 Z、a 到 z）、数字（0 到 9）和连字符（-），但不能以连字符结尾。
 - **密码**：指定 1 至 64 个字符的管理员密码。密码支持所有 ASCII 字符。
 - **确认密码**：再次输入密码。
8. 单击**下一步**。
9. 指定时区、日期和时间。



提示

QNAP 建议连接到 NTP 服务器，以确保设备遵循协调世界时 (UTC) 标准。

10. 单击**应用**。
QNE 即安装完毕。

使用云管理模式安装 QNE

您还可以创建 AMIZ Cloud 连接密钥，并将此连接密钥发送给设备管理员，以部署设备。您可以在 myQNAPcloud 网站上初始化设备，以部署设备。有关详细信息，请访问 <https://amizcloud.qnap.com> 或参见《QNE 用户指南》中的“使用 AMIZ Cloud 连接密钥添加设备”。

**警告**

安装 QNE 将删除硬盘上的所有数据。请先备份您的数据，然后再继续。

1. 启动设备。
2. 将设备连接到您的局域网中。
3. 在已连接到同一局域网的计算机上运行 Qfinder Pro。

**注**

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。
智能安装指南将在默认 Web 浏览器中打开。
5. 执行以下任一操作。
 - 要安装立即可用的版本，单击**跳过**。
 - 要检查最新的可用版本，请单击**刷新检查**，然后单击**更新**。向导会下载可供使用的最新版本，下载完成后，设备会重新启动。如果没有更新的版本，向导会自动显示**智能安装指南**。
 - 要手动指定版本，请单击**浏览**，选择文件，然后单击**更新**。
6. 在“云管理模式”下单击**开始**。
7. 输入 AMIZ Cloud 连接密钥。
8. 单击**下一步**。
AMIZ Cloud 将在设备上安装 QNE。

**注**

您需要在 AMIZ Cloud 中完成设备初始安装才能部署此设备。


4. 基本操作

本章介绍设备的基本操作。

按钮


电源按钮

操作	用户操作	结果
启动电源	按下此按钮一次。	设备开机。
关闭电源	按住此按钮 1.5 秒钟。	设备关机。
强制关机	按住此按钮 5 秒钟。	设备关机。



重要
仅当设备无响应时才能使用此方法。

重置按钮

基本系统重置	用户操作	结果
基本系统重置	按住此按钮 3 秒钟。	<p>以下设置将重置为默认值：</p> <ul style="list-style-type: none"> 系统管理员密码：默认密码为第一个 MAC 地址（去掉特殊字符），以大写字母表示。例如，如果第一个 MAC 地址为 00-08-9B-F6-15-75，则管理员密码为 00089BF61575。 <p> 提示 您可以使用 Qfinder Pro 找到第一个 MAC 地址，此地址也可能粘贴在设备的标签上，列示为 MAC1。</p> <ul style="list-style-type: none"> TCP/IP 配置： <ul style="list-style-type: none"> 通过 DHCP 自动获取 IP 地址设置 禁用巨型帧 如果启用端口中继（仅限多局域网型号），则端口中继模式将重置为“主动备份(故障转移)”。 系统端口：8080（系统服务端口） 安全等级：低（允许所有连接） LCD 面板密码：（空白） VLAN：禁用
高级系统重置	按住此按钮 15 秒钟。	<p>恢复默认出厂设置。</p> <ul style="list-style-type: none"> 要在高级系统重置后检索旧数据，请在设备上重新创建先前的文件夹结构。

LCD 面板

通过 LCD 面板，可以执行以下操作：

- 查看网络设置
- 查看系统和固件版本的相关信息

查看 TCP/IP 设置

您可以查看 QuCPE 上的每个网络适配器的 IP 地址设置。

1. 按上或下。
面板会显示设备名称和 QNE 版本。
2. 按上或下以查看下一个 TCP/IP 屏幕。
根据需要重复此步骤。

LED

开启设备电源后，LED 指示灯会指示系统状态和相关信息。以下 LED 信息仅适用于硬盘已正确安装并且设备已连接到网络或主机的情况。

有关 LED 位置的详细信息，请参见[组件](#)。

LED	状态	描述
系统电源	蓝色	设备已开机。
	熄灭	设备已关机。
警告状态	红色	系统风扇故障。
	熄灭	无警告。
硬盘活动	绿色	硬盘就绪。
	闪烁绿色	正在访问硬盘。
	熄灭	未检测到硬盘。
10 GB 以太网 (SFP+) 速度	绿色	网络连接正以 10 Gbps 的速度运行
	熄灭	没有网络连接。
10 GB 以太网 (SFP+) 活动	琥珀色	网络连接已建立。
	闪烁琥珀色	正在传输数据。
	熄灭	没有网络连接。
2.5 Gb 以太网 (RJ45) 速度	绿色	网络连接正以 2.5 Gbps 的速度运行。
	琥珀色	网络连接正以低于 2.5 Gbps 的速度运行。
	熄灭	<ul style="list-style-type: none"> • 网络连接正以 10 Mbps 的速度运行。 • 没有网络连接。
2.5 Gb 以太网 (RJ45) 活动	黄色	网络连接已建立。
	闪烁黄色	正在从网络访问设备。
	熄灭	没有网络连接。

警告音

时长	频率	描述
短提示音 (0.5 秒)	1	<ul style="list-style-type: none">• 设备正在启动。• 设备正在关闭 (软件关闭)。• 设备正在重置 (重置按钮)。
	3	固件已更新。
长提示音 (1.5 秒)	1	设备已成功开机并准备就绪。
	3 (每 5 分钟)	系统风扇故障。

5. 故障排除

本章介绍基本故障排除信息。

强制 Qfinder Pro 和 myQNAPcloud 定位设备

如果在 QNE 安装过程中 Qfinder Pro 或 myQNAPcloud 无法定位设备，则硬盘或数据可能有故障。

1. 关闭设备。
2. 取下所有硬盘。
3. 启动设备。
4. 使用 Qfinder Pro 定位设备。
5. 重新插入硬盘。
6. 继续安装 QNE。

支持和其他资源

QNAP 提供了以下资源：

资源	URL
文档	https://download.qnap.com
兼容性列表	https://www.qnap.com/compatibility
扩展单元兼容性	http://www.qnap.com/go/compatibility-expansion
服务门户	https://service.qnap.com
产品支持状态	https://www.qnap.com/en/product/eol.php
下载	https://download.qnap.com
社区论坛	https://forum.qnap.com
QNAP 配件商店	https://shop.qnap.com

6. 术语表

myQNAPcloud

提供各种远程访问服务，如 DDNS 和 myQNAPcloud Link

myQNAPcloud Link

可用于通过 Internet 访问 QNAP 设备，而且不必配置复杂的端口转发设置

Qfinder Pro

一种 QNAP 实用工具，可用于查找和访问局域网中的 QNAP NAS 设备

QNE

适用于 QuCPE 设备的 QNAP 操作系统

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Version 3, 29 June 2007

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- c. Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- 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.

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电缆组装	0	0	0	0	0	0
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