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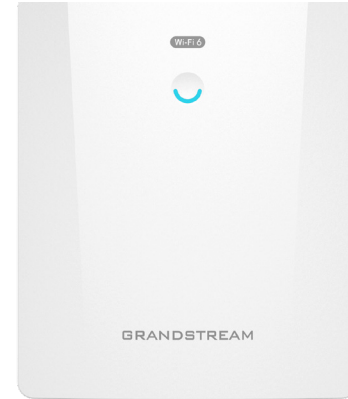


BE	BG	CZ	DK	DE	EE	IE	EL	LI
ES	FR	HR	IT	CY	LV	LT	LU	CH
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SK	FI	SE	NO	IS	UK	UK(NI)		

In the UK and EU member states, operation of 5150-5350 MHz is restricted to indoor use only.



For Certification, Warranty and RMA information,
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GWN7664ELR

High-Performance Outdoor AX6000 Wi-Fi 6 Access Point

Quick Installation Guide

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OVERVIEW

The GWN7664ELR is an enterprise outdoor 802.11ax Wi-Fi 6 access point for medium-to-large businesses and enterprises who need to provide long-range coverage in outdoor spaces. It offers IP67-level weatherproof capability, dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology and a sophisticated antenna design for up to 6 Gbps wireless throughput that supports 1000+ clients and an expanded 300-meter coverage range. To ensure easy installation and management, the GWN7664ELR includes a built-in controller embedded within the product's web user interface. It is also supported by GWN.Cloud and GWN Manager, Grandstream's free cloud and on-premise Wi-Fi management platform. The GWN7664ELR is the ideal Wi-Fi AP for voice-over-Wi-Fi deployment and offers a seamless connection with Grandstream's Wi-Fi capable voice and video IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals and a 2.5 Gigabit SFP port and a 2.5 Gigabit Ethernet port with PoE/PoE+, GWN7664ELR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools and more.

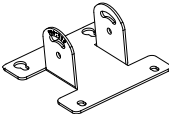
PRECAUTIONS

- Do not attempt to open, disassemble, or modify the device.
- Do not expose this device to temperatures outside range of -30 °C to 60 °C for operating and -30 °C to 60 °C for storage.
- Do not expose the GWN7664ELR to environments outside of the following humidity range: 10-90% RH (non-condensing).
- Do not power cycle your GWN7664ELR access point during system boot up or firmware upgrade. You may corrupt firmware images and cause the unit to malfunction.
- Please take lightning protection measures during installation (a lightning rod is required and the device must be reliably grounded). It is recommended to use a surge protection device.

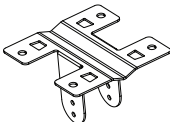
PACKAGE CONTENTS



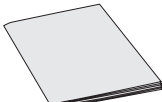
GWN7664ELR
Access point



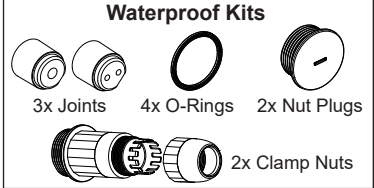
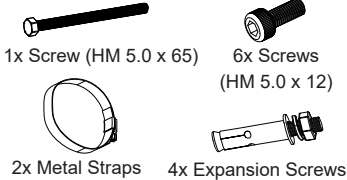
1x Base
Bracket



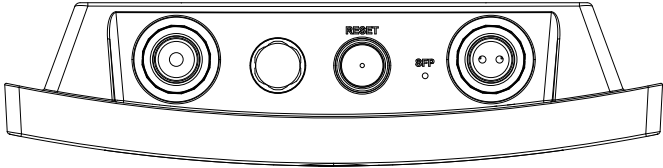
1x Mounting
Bracket



1x Quick
Installation Guide



GWN7664ELR PORTS



Port	Description
SFP Port	2.5G SFP Port (support 2.5Gbps aggregate wired throughput).
NET/POE 2.5G	Ethernet RJ45 port 2.5Gbps to your router or another GWN76xx, support PoE/PoE+.
RESET	Factory reset pinhole. Press for 7 seconds to reset factory default settings.

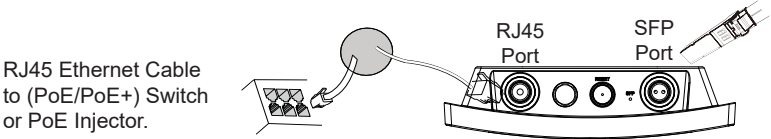
POWERING AND CONNECTING THE GWN7664ELR

GWN7664ELR can be powered on using PoE/PoE+ switch or a PoE injector using the following steps:

- Step 1:** Plug a RJ45 Ethernet cable into the network port of the GWN7664ELR.
- Step 2:** Plug the other end into the uplink port of the PoE/PoE+ switch or PoE injector.

Notes:

- If GWN7664ELR is connected using the SFP port, please connect the RJ45 Ethernet port to a PoE/PoE+ switch or a PoE injector without the uplink to power device.
- It's recommended to power the unit using the 802.3at standard (PoE+) or a PSE device with more than 25W.



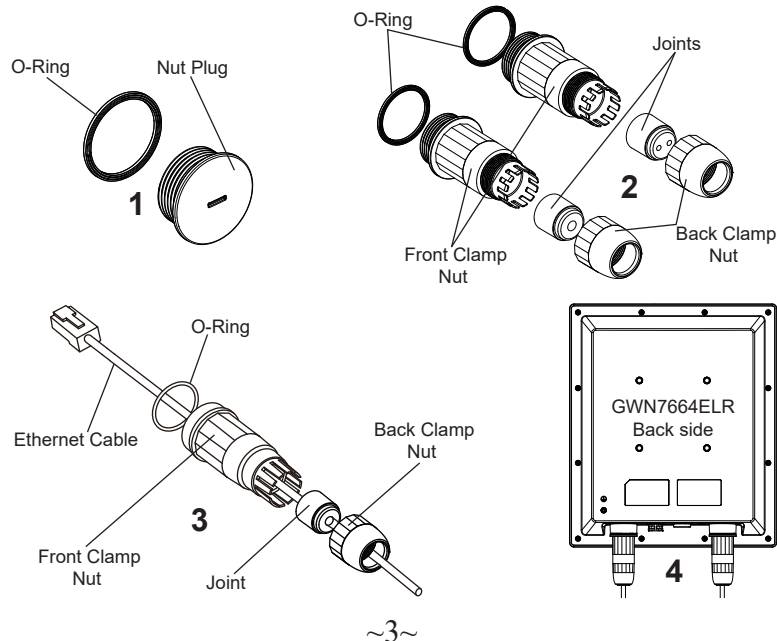
HARDWARE INSTALLATION

GWN7664ELR can be mounted on the wall or on a metal bar, Please refer to the following steps for the appropriate installation.

Waterproof Kits Installation

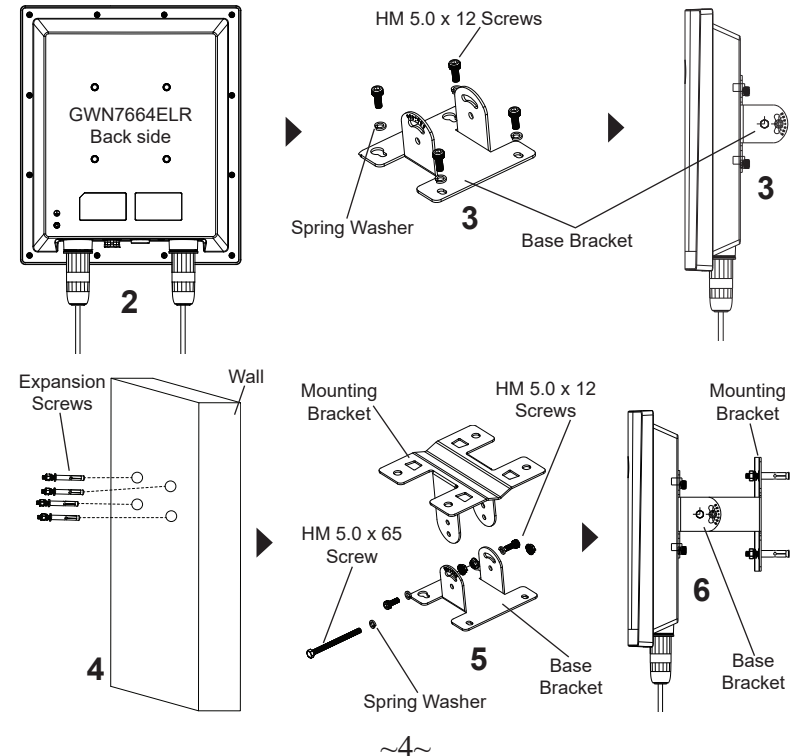
1. If the Ethernet (RJ45) or SFP port is not used, please use the O-ring and the nut plug to seal the port to ensure waterproofing, and to use the port remove it with a flat screwdriver.
2. Place the O-ring between the port and the front clamp nut, and place the Ethernet/Fiber joint between the front and the back of the clamp nut.
3. Insert the Ethernet/Fiber cable through the O-ring, front clamp nut, Ethernet/Fiber joint and the back clamp nut, if the RJ45/Fiber connector is attached, please remove it first then attach it back.
4. Connect the Ethernet (RJ45) or Fiber (SFP module) to the appropriate port, then screw the front clamp nut with the GWN7664ELR port and screw the back clamp nut with the front clamp nut.

Note: Please use a 5mm diameter Ethernet cable and a 2.8mm diameter Fiber cable, if the Ethernet or Fiber cable is too small, the device may leak.



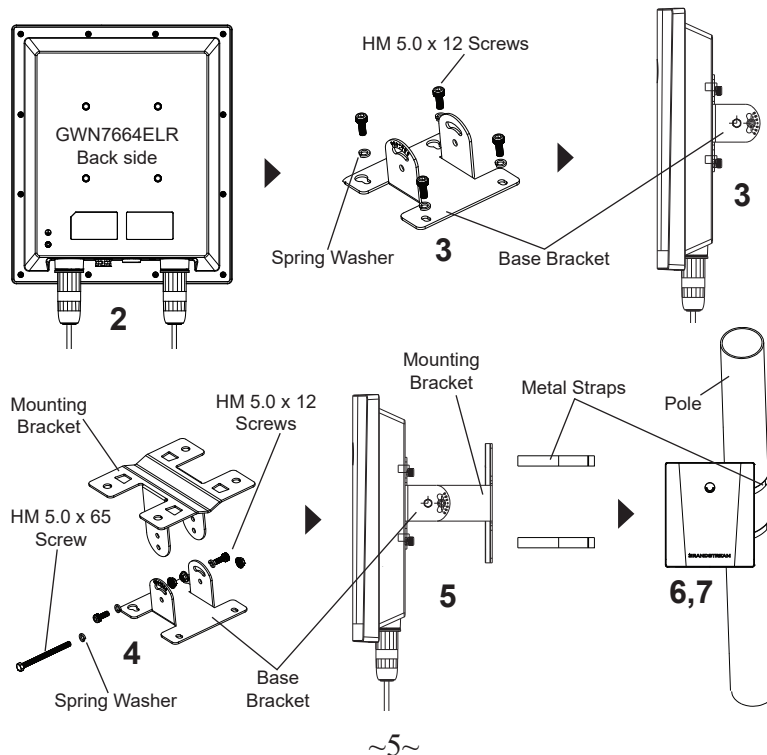
Wall Mount

1. Please refer to the waterproof kits installation.
2. Connect the Ethernet (RJ45) or Fiber (SFP module) cable to the correct GWN7664ELR port and tighten the waterproof joints.
3. Attach the Base Bracket with screws (HM 5.0 x 12) on the back of GWN7664ELR access point.
4. Drill four holes on the wall based on the positions of the ones on the mounting bracket (use the mounting bracket as a drill template). Then, fix an expansion screw in each hole.
5. Assemble the base bracket and mounting bracket together with the screw (HM 5.0 x 65) and screws (HM 5.0 x 12).
6. Attach the GWN7664ELR access point by securing the mounting bracket with the expansion screws on the wall.



Pole Mount

1. Please refer to the waterproof kits installation.
2. Connect the Ethernet (RJ45) or Fiber (SFP module) to the correct GWN7664ELR port and tighten the waterproof joints.
3. Attach the Base Bracket with screws (HM 5.0 x 12) on the back of GWN7664ELR access point.
4. Assemble the Base Bracket and Mounting Bracket together with the screw (HM5.0 x 65) and screws (HM 5.0 x 12).
5. Open the metal straps by turning the locking mechanism counter-clockwise. You can loosen it by hand or use a flathead screwdriver.
6. Straighten out the end of the metal straps and slide it through the back of the base bracket.
7. Wrap the metal strap around the pole and use a flathead screwdriver to tighten the locking mechanism by turning it clockwise.



CONNECT TO GWN7664ELR DEFAULT Wi-Fi NETWORK

GWN7664ELR can be used as standalone access point out of box, or after factory reset with Wi-Fi enabled by default.

After powering the GWN7664ELR and connecting it to the network, GWN7664ELR will broadcast a default SSID based on its MAC address **GWN[MAC's last 6 digits]** and a random password.

Note: GWN7664ELR's default password information is printed on the sticker on the back of the unit.

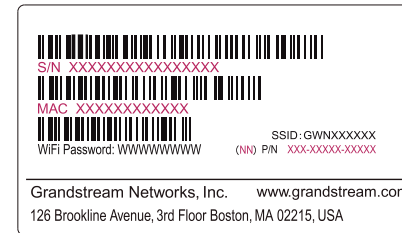
ACCESSING THE CONFIGURATION INTERFACE

A computer connected to the GWN7664ELR's SSID, or to the same network as the GWN7664ELR can discover and access its configuration interface using one of the below methods:

Method 1: Discover GWN7664ELR using its MAC Address

1. Locate the MAC address on the MAC tag of the unit, which is on the underside of the device, or on the package.
2. From a computer connected to same network as the GWN7664ELR, type in following address using GWN7664ELR's MAC address on your browser **https://gwn_<mac>.local**

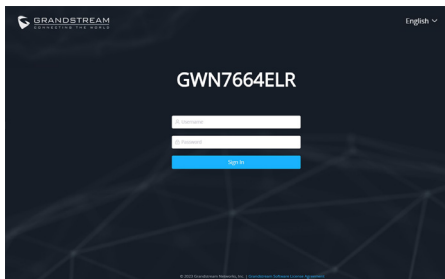
Example: If a GWN7664ELR has the MAC address C0:74:AD:8C:4D:F8, this unit can be accessed by typing **https://gwn_c074ad8c4df8.local** on the browser.



Method 2: Discover GWN7664ELR using GWN Discovery Tool

1. Download and install **GWN Discovery Tool** from the following link: <https://www.grandstream.com/tools/GWNDiscoveryTool.zip>
2. Open the GWN DiscoveryTool, and click on **Scan**.
3. The tool will discover all GWN76xx Access Points connected on the network showing their MAC and IP addresses.

- Click on Manage Device to be redirected directly to the GWN7664ELR's configuration interface, or type in manually the displayed IP address on your browser.
- Enter username and password to login. (The default administrator username is "admin" and the default random password can be found on the sticker on the GWN7664ELR).



Notes:

- Make sure that the GWN7664ELR is not already paired with another GWN76xx Access Point, GWN Router Series, GWN.Cloud or GWN Manager, otherwise the configuration interface cannot be accessed.
- If the GWN7664ELR is already paired, make sure to unpair it first, or do a factory reset.
- It is customer's responsibility to ensure compliance with local regulations for frequency bands, transmit power and others.
- To manage GWN7664ELR over cloud, please refer to <https://www.gwn.cloud>.

The GNU GPL license terms are incorporated into the device firmware and can be accessed via the Web user interface of the device at my_device_ip/gpl_license. It can also be accessed here: <https://www.grandstream.com/legal/open-source-software>
To obtain a CD with GPL source code information please submit a written request to info@grandstream.com

Refer to online documents and FAQ for more detailed information:
<https://www.grandstream.com/our-products>

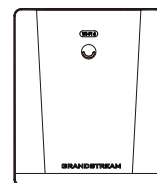
ZH 概述

GWN7664ELR是一款企业级户外802.11ax Wi-Fi 6接入点，适用于需要在户外空间提供远程覆盖的大中型企业。它提供IP67防水防尘能力，双频4×4:4 MU-MIMO DL/UL OFDMA技术和复杂的天线设计，可实现高达6 Gbps的无线吞吐量，支持1000+个客户端和300米Wi-Fi覆盖范围。为了安装和管理更便捷，GWN7664ELR既支持使用无控制器的分布式网络管理设计，内嵌AC控制器（嵌入Web用户界面中），也支持GWN.Cloud系统以实现大规模的部署管理，以及本地Wi-Fi管理平台GWN Manager。GWN7664ELR是语音-Wi-Fi部署的理想Wi-Fi AP，可与Grandstream支持Wi-Fi的语音和视频IP电话无缝连接。支持高级QoS、低延迟实时应用程序、Mesh、独立门户、2.5千兆以太网口(PoE/PoE+)和2.5千兆SFP网口，GWN7664ELR是企业、多层办公室、仓库、医院、学校等理想的户外Wi-Fi接入点。

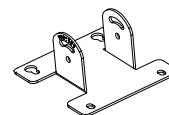
注意事项

- 不要尝试打开，拆解或修改设备。
- 不要将本设备暴露在温度-30℃至60℃的工作环境或-30℃至60℃的存储环境以外。
- 不要将本设备暴露在环境湿度超过如下范围外的环境中：10-90%RH（无冷凝）。
- 系统启动或固件升级期间不要中断电源。这可能会损坏设备件，并导致设备故障。
- 安装时请做好防雷措施（需要避雷针且设备需可靠接地），建议搭配防雷器使用。

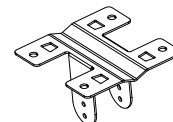
包装内容



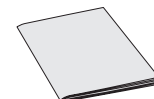
GWN7664ELR
无线接入点



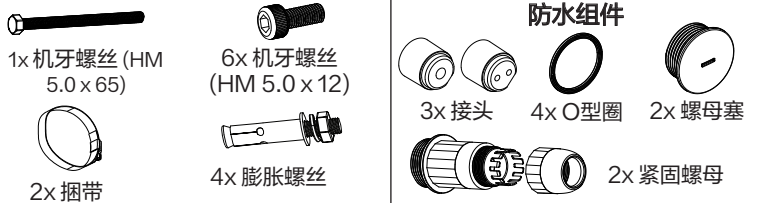
1x 支架



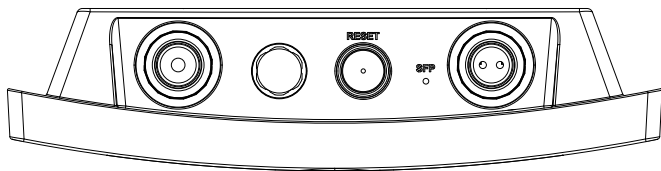
1x 安装支架



1x 快速安装手册



GWN7664ELR 端口



端口	描述
SFP Port	2.5千兆SFP网口(支持2.5Gbps总有线吞吐量).
NET/POE 2.5G	以太网RJ45端口 2.5Gbps, 连接至路由器或另一个 GWN76xx. 支持PoE/PoE+.
RESET	恢复出厂设置按钮. 按7秒恢复出厂默认设置.

上电和连接 GWN7664ELR

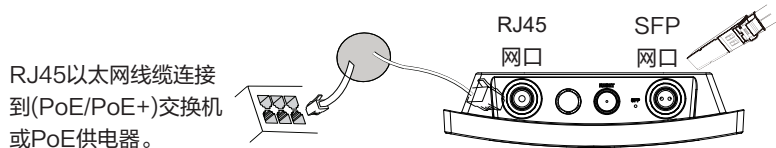
GWN7664ELR可以使用PoE/PoE+交换机或PoE供电器, 可通过以下步骤来供电:

第1步: 将RJ45以太网电缆插入GWN7664ELR的网络端口。

第2步: 将另一端插入有PoE/PoE+供电的交换机口或PoE供电器中。

注意:

- 如果GWN7664ELR使用SFP接口连接, 请将RJ45以太网接口连接到PoE/PoE+交换机或PoE供电器, 不连接到电源设备。
- 建议使用802.3at标准(PoE+)或25W以上的PSE设备供电。



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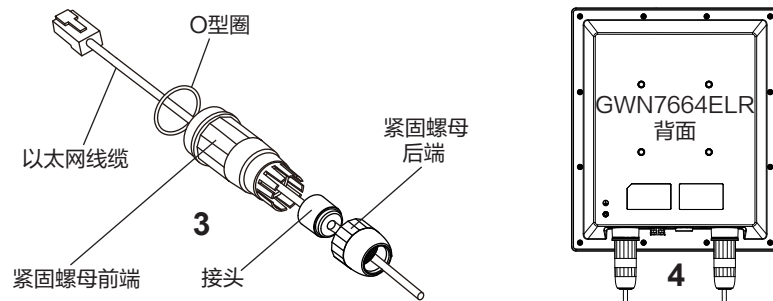
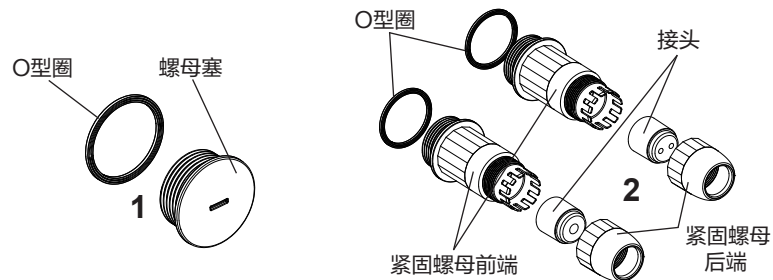
硬件安装

GWN7664ELR 可安装在墙壁或金属杆上, 具体请参照如下步骤进行安装。

防水组件安装

1. 如果不使用以太网(RJ45)或SFP接口, 请使用o型圈和螺母塞密封端口以确保防水, 使用时请使用一字螺丝刀拆卸。
2. 将o型圈置于端口和紧固螺母前端之间, 将以太网/光纤接头置于紧固螺母之间。
3. 将以太网/光纤线缆穿过o型圈、紧固螺母前端、以太网/光纤接头和紧固螺母后端, 如果已连接RJ45/光纤连接器, 请先将其拆下, 再将其连接回去。
4. 将以太网(RJ45)或光纤(SFP模块)连接到相应的端口 端口, 然后将紧固螺母前端和GWN7664ELR端口拧紧, 在将紧固螺母前端和后端相互拧紧。

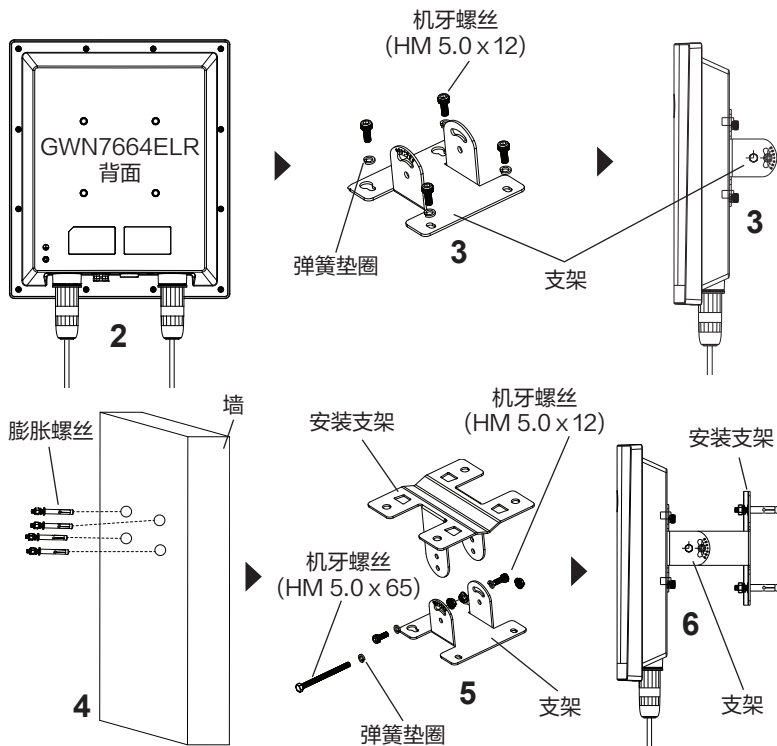
注意: 请使用5mm直径的以太网线和2.8mm直径的光纤, 如果以太网线或光纤过小, 可能会导致设备漏水。



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壁挂式安装

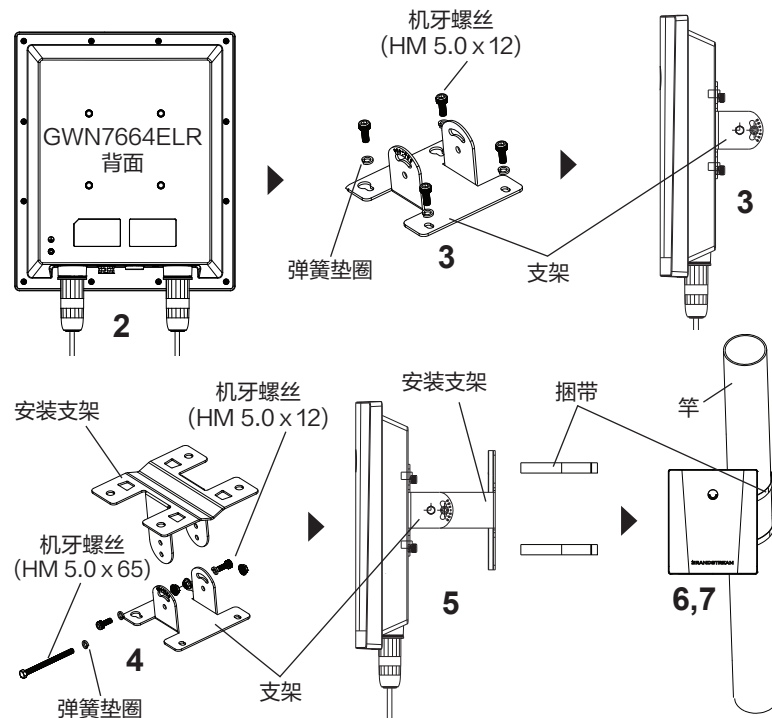
1. 请参考防水组件安装。
2. 将以太网电缆（RJ45）或SFP（光模块）连接到正确的GWN7664ELR端口并拧紧防水接头。
3. 使用机牙螺丝（HM5.0×12）将支架固定在GWN7664ELR后壳上。
4. 根据安装支架上的位置在墙上钻4个孔(以安装支架为钻孔模板)。然后在每个孔内放置一颗膨胀螺丝。
5. 使用机牙螺丝（HM5.0×65）和机牙螺丝（HM5.0×12）和将支架和安装支架组装。
6. 将GWN7664ELR接入点用膨胀螺丝固定在墙上的安装支架上。



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纵杆安装

1. 请参考防水组件安装。
2. 将以太网电缆（RJ45）或SFP（光模块）连接到正确的GWN7664ELR端口并拧紧防水接头。
3. 使用机牙螺丝（HM5.0×12）将支架固定在GWN7664ELR后壳上。
4. 使用机牙螺丝（HM5.0×65）和机牙螺丝（HM5.0×12）和将支架和安装支架组装。
5. 逆时针旋转闭锁机制打开金属捆带。您可徒手打开或者借助一字螺丝刀。
6. 拉直捆带的一端并将其穿过安装支架的背部。
7. 用捆带围住安装杆并借助一字螺丝刀顺时针拧紧闭锁机制。



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连接到GWN7664ELR默认的无线网络

新的GWN7664ELR会有默认的WiFi广播。恢复出厂设置也能使默认Wi-Fi启动。

将GWN7664ELR上电起机并连接至网络，GWN7664ELR会广播默认的SSID。该SSID是基于GWN设备的MAC地址后六位以及一串随机密码

注意: GWN7664ELR的默认SSID和随机密码打印在设备的MAC地址贴上。

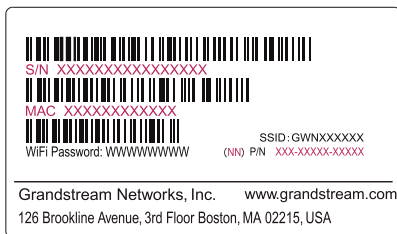
访问配置页面

将电脑连接到GWN7664ELR广播的无线网，或GWN7664ELR所在的局域网。就可以用以下的几种方式来发现并访问GWN7664ELR的配置页面：

方法1：用MAC地址来发现GWN7664ELR

1. 在设备的背面的贴纸上，或者设备的外包装盒上可以找到设备的MAC 地址。
2. 在连接到GWN7664ELR广播的SSID，或GWN7664ELR所在的局域网的电脑上，用浏览器输入网址：**https://gwn_<mac>.local**。

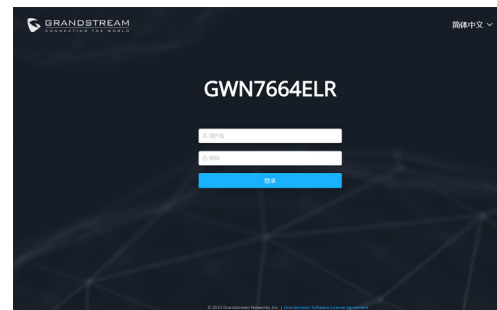
入比如：如果GWN7664ELR的MAC地址为 C0:74:AD:8C:4D:F8,那么在浏览器上输入**https://gwn_c074ad8c4df8.local**。



方法2: 用GWNDISCOVERYTool发现GWN7664ELR

1. 从下面的连接下载GWNDISCOVERYTool: <https://www.grandstream.com/tools/GWNDISCOVERYTool.zip>
2. 打开GWNDISCOVERYTool，并点击Scan（扫描）。
3. 这个软件将帮助你发现局域网下所有的GWN7664ELR并显示他们MAC地址和IP地址。

4. 点击Manage Device（管理设备）后，将直接跳转到GWN7664ELR的配置界面。或者也可以通过在浏览器中输入所查找到的GWN7664ELR的IP 地址。
5. 输入用户名和密码登录。（默认管理员用户名为“admin”，默认随机密码位于GWN7664ELR的MAC标签上）。



备注:

- 确认GWN7664ELR并没有被配对到另一个GWN76XX无线 AP，GWN路由器或者GWN Cloud/GWN Manager，否则配置界面将会显示设备已配对，导致无法登陆配置页面。
- 如果GWN7664ELR已经被配对，请从它的配主那里解除配对，或者恢复该设备的出厂设置。
- 遵守当地关于频带、发射功率及其他相关法规是每个用户应尽的责任。
- 请在<https://www.gwn.cloud>进行GWN7664ELR的云端管理。

GNU GPL许可条款已包含在设备固件中，可以通过设备的Web用户界面 my_device_ip/gpl_license 进行访问。也可以通过以下链接访问：<http://www.grandstream.com/legal/open-source-software>。如果需要包含GPL源代码信息的CD，请发邮件到 info@grandstream.com提交请求。

欲获取详细的话机使用信息，请在以下链接中下载GWN7664ELR用户手册。
<https://www.grandstream.com/our-products>

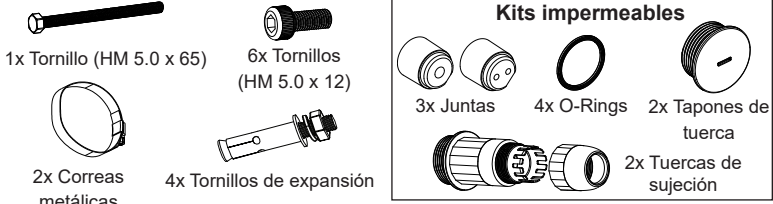
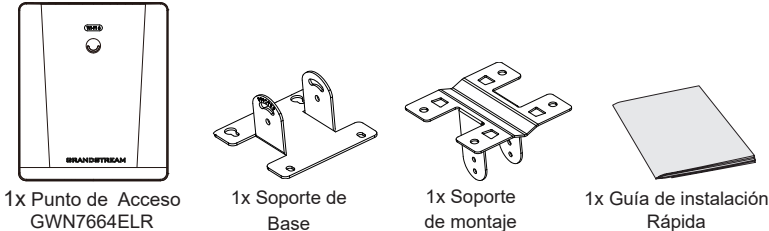
RESUMEN

El GWN7664ELR es un punto de acceso para exteriores de grado empresarial compatible con el estándar Wi-Fi 6 802.11ax. Está diseñado para medianas y grandes empresas que requieren cobertura de largo alcance en espacios exteriores. Con su capacidad de protección contra la intemperie de nivel IP67, MU-MIMO 4x4:4 de doble banda con tecnología DL/UL OFDMA y un sofisticado diseño de antena, permite un rendimiento inalámbrico de hasta 6 Gbps, soporta más de 1.000 clientes y proporciona un rango de cobertura ampliado de hasta 300 metros. Para garantizar una fácil instalación y administración, el GWN7664ELR incluye un controlador integrado incluido en la interfaz web del producto. También es compatible con las plataformas gratuitas de administración Wi-Fi local y en la nube GWN.Cloud y GWN Manager de Grandstream. El GWN7664ELR es el punto de acceso Wi-Fi ideal para la implementación de voz sobre Wi-Fi y ofrece una conexión perfecta con los teléfonos IP Wi-Fi de voz y video de Grandstream. Con soporte para QoS avanzado, aplicaciones en tiempo real de baja latencia, redes mesh, portales cautivos, un puerto SFP de 2,5 Gigabit y un puerto Ethernet de 2,5 Gigabit con PoE/PoE+, el GWN7664ELR es un punto de acceso Wi-Fi exterior ideal para empresas, oficinas de varios pisos, almacenes, hospitales , escuelas y más.

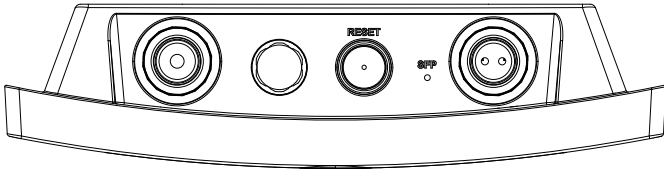
PRECAUCIONES

- No intente abrir, desarmar o modificar el dispositivo.
- No exponga este dispositivo a temperaturas fuera del rango de -30 °C a 60 °C en funcionamiento y desde -30 °C a 60 °C cuando se encuentre almacenado.
- No exponga el GWN7664ELR a entornos fuera del siguiente rango de humedad: 10-90% RH (sin condensación).
- No apague su GWN7664ELR durante el reinicio del sistema o actualización de Firmware. Puede corromper la imagen del firmware y causar un mal funcionamiento de la unidad.
- Tome las medidas correspondientes para la protección contra rayos durante la instalación (se requiere un pararrayos y el dispositivo debe estar conectado a tierra de manera segura y confiable). Se recomienda utilizar un dispositivo de protección contra sobretensiones.

CONTENIDO DEL PAQUETE



PUERTOS GWN7664ELR



Puerto	Descripción
SFP Port	Puerto SFP 2,5 Gbps (rendimiento agregado por cable de 2,5 Gbps).
NET/POE 2.5G	Puerto Ethernet RJ45 2.5 Gbps para su router u otro GWN76xx, con soporte de PoE/PoE+.
RESET	Botón de reinicio de fábrica. Presione por 7 segundos para llevar a los ajustes de fábrica.

ENCENDIENDO Y CONECTANDO EL GWN7664ELR

El GWN7664ELR se puede alimentar mediante un switch PoE/PoE+ o un inyector PoE siguiendo los siguientes pasos:

Paso 1: Conecte un cable Ethernet RJ45 en el puerto de red del GWN7664ELR.

Paso 2: Conecte el otro extremo al puerto de enlace ascendente del switch PoE/ PoE+ o inyector PoE.

Notas:

- Si el GWN7664ELR se conecta mediante el puerto SFP, conecte el puerto Ethernet RJ45 a un switch PoE/PoE+ o a un inyector PoE sin el puerto de enlace ascendente para la alimentación del dispositivo.
- Se recomienda alimentar la unidad usando el estándar 802.3at (PoE+) o un dispositivo PSE de más de 25W.

