

Grandstream Networks, Inc.

GWN7660ELR - Quick Installation Guide

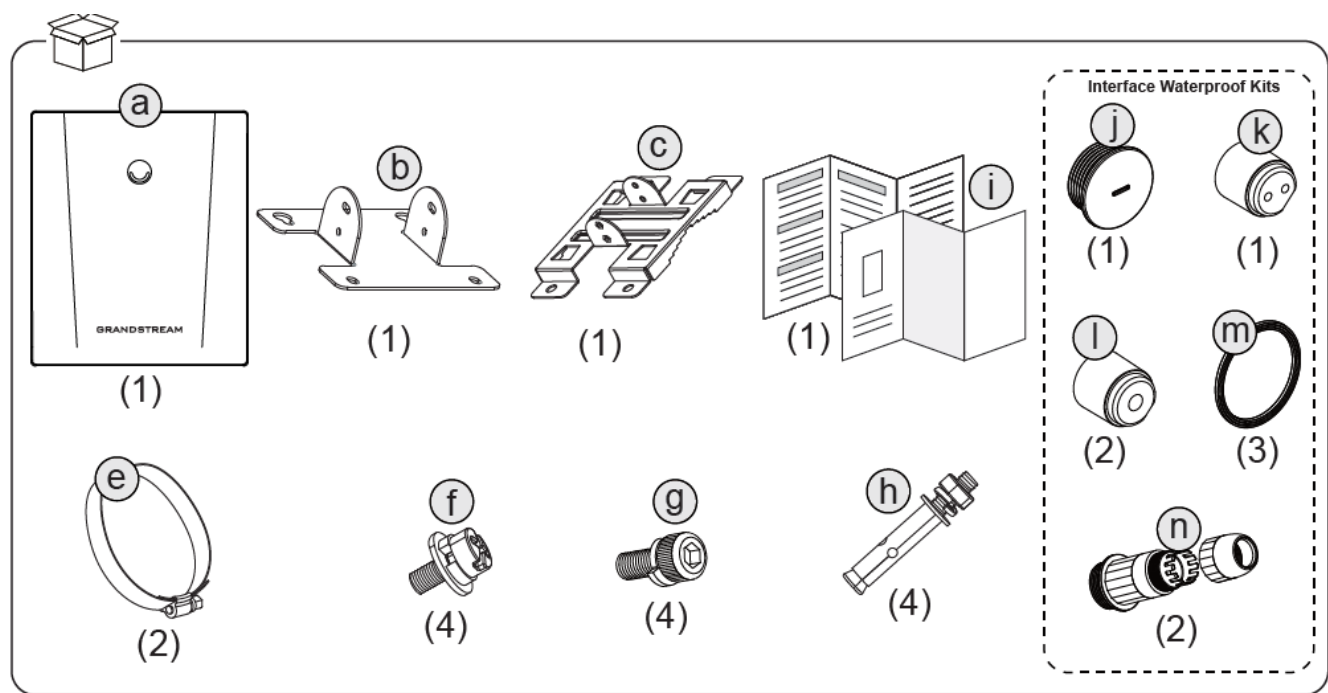


GWN7660ELR - Quick Installation Guide

Overview

The GWN7660ELR is an enterprise-grade long-range Wi-Fi 6 access point that allows businesses to build next-generation Wi-Fi networks for high-density environments. It supports weatherproof casing and heat resistant technology, dual-band 2x2:2 MIMO with OFDMA technology and a sophisticated antenna design for maximum network throughput that supports 256 clients and an expanded 300-meter coverage range. It also provides IP68 weatherproof and dust-proof ability, as well as -30 to 60°C operating temperature, this ensures that the Wi-Fi 6 access point can operate properly in difficult weather conditions. To ensure easy installation and management, the GWN7660ELR 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 GWN7660ELR is the ideal Wi-Fi AP for voice over Wi-Fi deployment and offers a seamless connection with Grandstream's Wi-Fi voice and video IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, a Gigabit Ethernet port with PoE/PoE+ and a 2.5 Gigabit SFP port, the GWN7660ELR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools, and more.

Package Contents

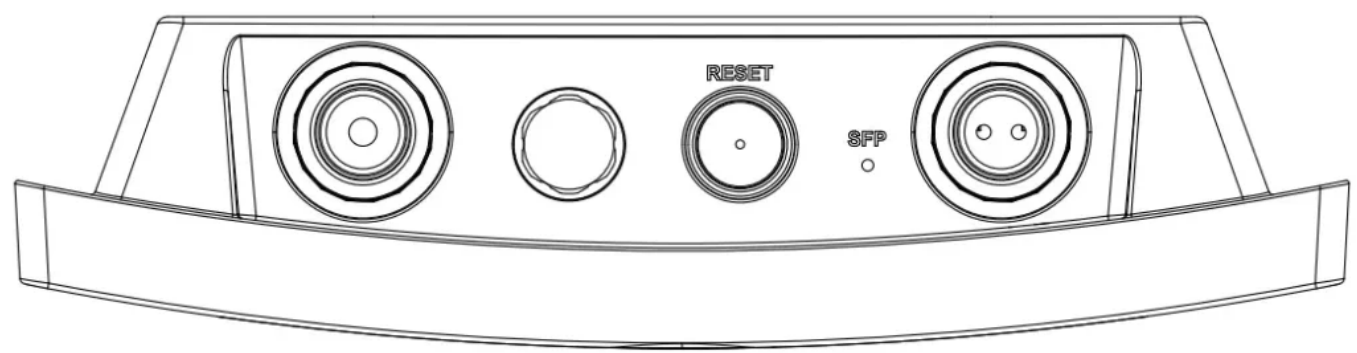


Package Contents

Letter	Package Content	Quantity
a	GWN7660ELR Access Point	1x
b	Base Bracket	1x
c	Mounting Bracket	1x
e	Metal Straps	2x
f	Expansion Screws	4x
g	Screws (HM 5.0 x 12)	6x

h	Screw (HM 5.0 x 65)	1x
i	Quick Installation Guide & Regulator Paper	1x
j	Nut Plugs	2x
k	SFP Sealing Plug	1x
l	RJ45 Sealing Plugs	2x
m	O-Rings	4x
n	Clamp Nuts	2x

GWN7660ELR Ports



GWN7660ELR Ports

Port	Description
SFP Port	2.5G SFP Port (support 2.5Gbps aggregate wired throughput).
NET/POE 1G	Ethernet RJ45 port 1Gbps to your router or another GWN76xx, support PoE/PoE+.
RESET	Factory reset button. Press for 7 seconds to reset factory default settings.

GWN7660ELR Ports

Powering and Connecting the GWN7660ELR

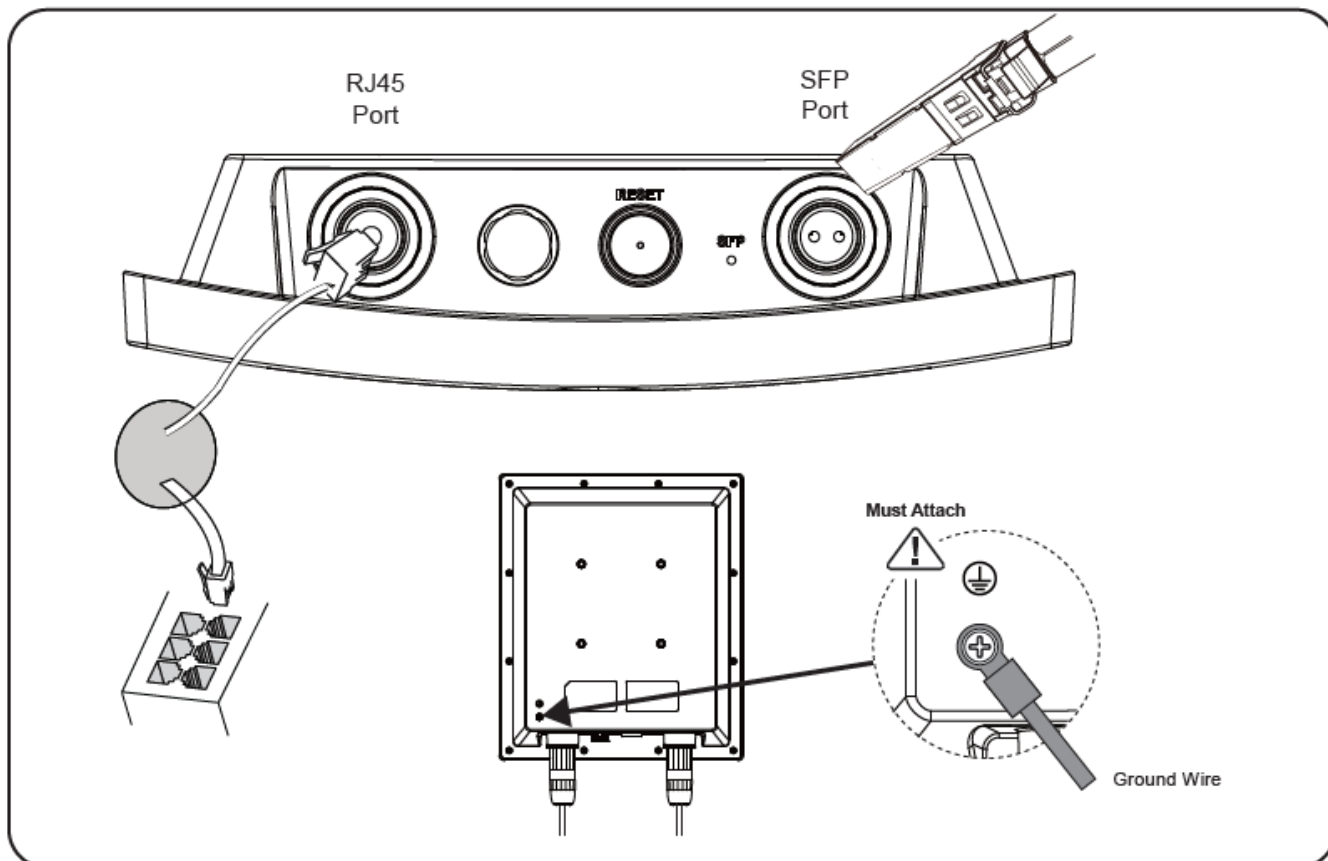
The GWN7660ELR can be powered using a PoE/PoE+ switch or PoE injector. Follow the steps below to power on and connect the device:

Step 1: Connect the ground wire to the grounding point on the GWN7660ELR and secure it properly.

Step 2: Plug an RJ45 Ethernet cable into the RJ45 port of the GWN7660ELR.

Step 3: Connect the other end of the RJ45 Ethernet cable to the uplink port of a PoE/PoE+ switch to power the device and establish the network connection.

Step 4: If the GWN7660ELR is connected to the network through its SFP port, connect the SFP cable to the SFP port. In this configuration, connect the RJ45 Ethernet port to a PoE/PoE+ switch or PoE injector **without using the uplink connection**. The RJ45 connection is used to provide power to the device.



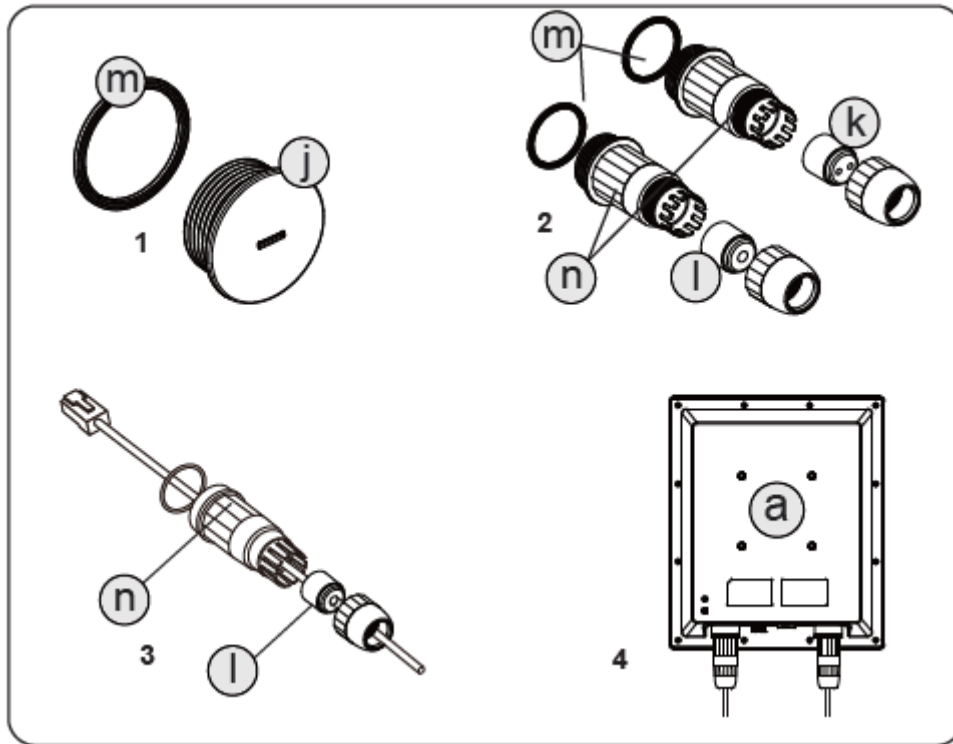
The GWN7660ELR does not receive power through the SFP port. When using the SFP port for the network connection, the RJ45 port must still be connected to a PoE/PoE+ switch or PoE injector for power.

Hardware Installation

GWN7660ELR 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 GWN7660ELR port and screw the back clamp nut with the front clamp nut.

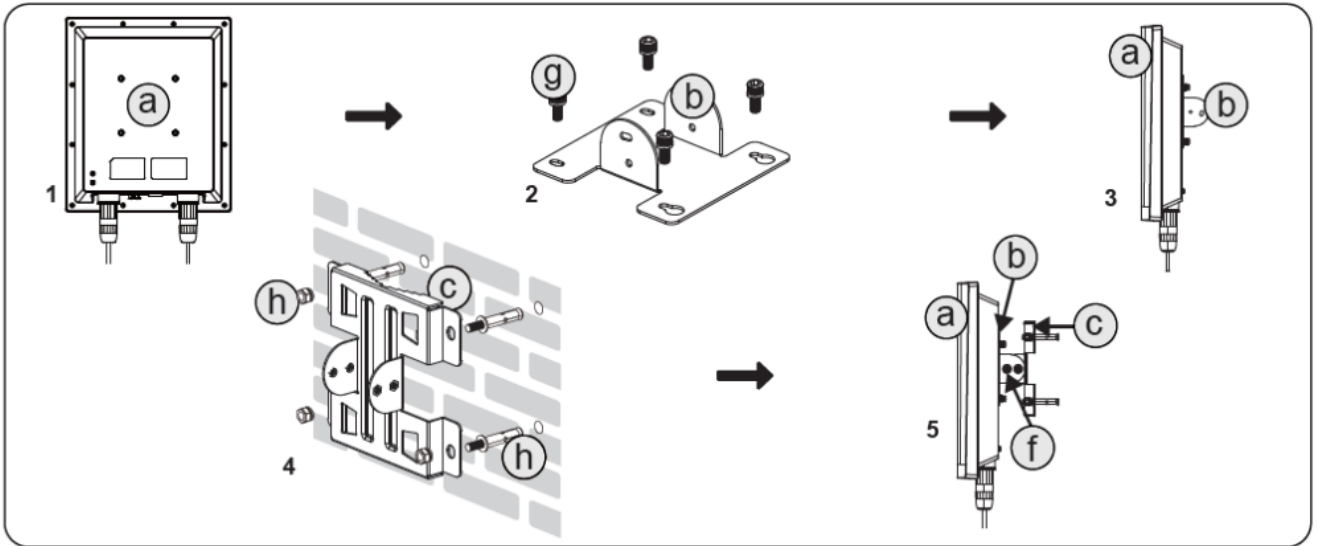


Waterproof Kits Installation

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

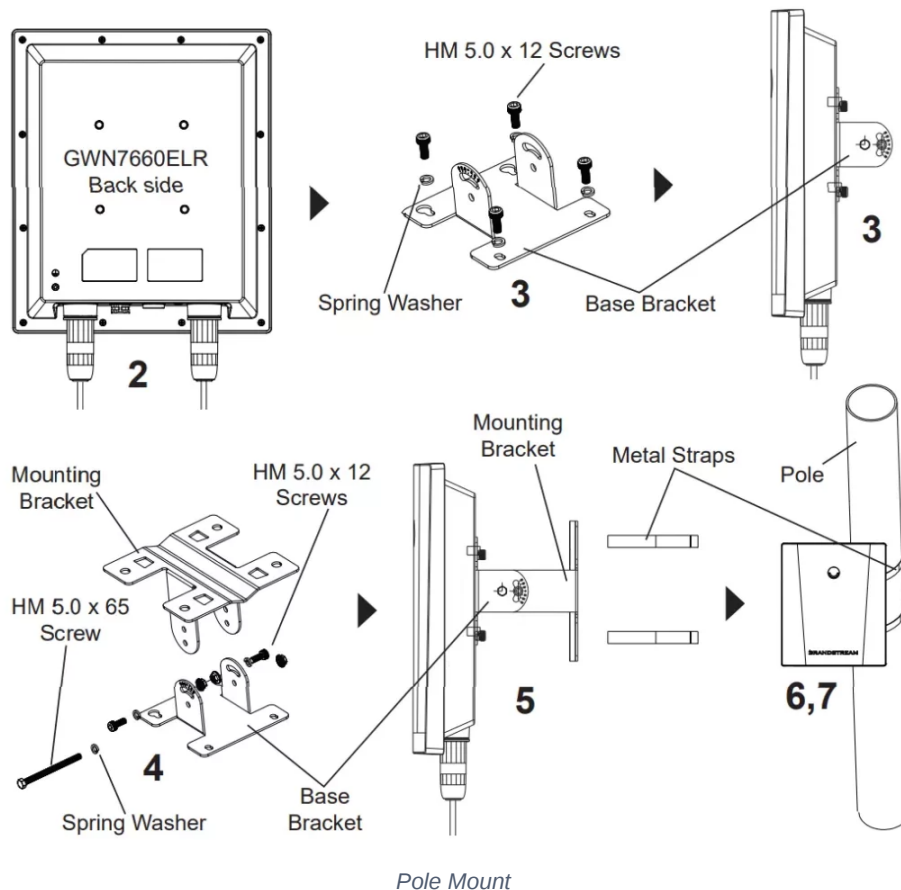
1. Please refer to the waterproof kits installation.
2. Connect the Ethernet (RJ45) or Fiber (SFP module) cable to the correct GWN7660ELR port and tighten the waterproof joints.
3. Attach the Base Bracket with screws (HM 5.0 x 12) on the back of GWN7660ELR access point.
4. Drill four holes on the wall 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 x12).
6. Attach the GWN7660ELR access point by securing the mounting bracket with the expansion screws on the wall.



Wall Mount

Pole Mount

1. Please refer to the waterproof kits installation.
2. Connect the Ethernet (RJ45) or Fiber (SFP module) to the correct GWN7660ELR port and tighten the waterproof joints.
3. Attach the Base Bracket with screws (HM 5.0 x 12) on the back of GWN7660ELR 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. Assemble the Base Bracket and Mounting Bracket together with the screw (HM5.0 x 65) and screws (HM 5.0 x 12).
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 GWN7660ELR Default Wi-Fi Network

GWN7660ELR can be used as a standalone access point out of the box, or after a factory reset with Wi-Fi enabled by default.

After powering the GWN7660ELR and connecting it to the network, GWN7660ELR will broadcast a default SSID based on its MAC address GWN[**MAC's last 6 digits**] and a random password.

GWN7660ELR's default password information is printed on the sticker in the back of the unit.

Accessing the Configuration Interface

A computer connected to the GWN7660ELR's SSID, or to the same network as the GWN7660ELR can discover and access its configuration interface using one of the below methods:

Method 1: Discover GWN7660ELR 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 the same network as the GWN7660ELR, type in the following address using GWN7660ELR's MAC address on your browser **https://gwn_<mac>.local**

Example: If a GWN7660ELR has the MAC address C0:74:AD:8C:4D:F8, this unit can be accessed by typing **https://gwn_c074ad8c4df8.local** on the browser.



MAC Tag

Method 2: Discover GWN7660ELR 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 GWNDiscoveryTool, and click on Scan.
3. The tool will discover all GWN76xx Access Points connected to the network showing their MAC and IP addresses.
4. Click on Manage Device to be redirected directly to the GWN7660ELR's configuration interface, or type in manually the displayed IP address on your browser.
5. Enter the username and password to log in. (The default administrator username is "admin" and the default random password can be found on the sticker on the GWN7660ELR).

GWN7660ELR

[Sign In](#)

© 2024 Grandstream Networks, Inc. | Grandstream Software License Agreement

GWN7660ELR login page

- Make sure that the GWN7660ELR is not already paired with another GWN76xx Access Point as a slave, GWN Router, GCC Convergence device, GDMS.cloud or GWN Manager otherwise the configuration interface cannot be accessed.
 - If the GWN7660ELR is already paired, make sure to unpair it first, or do a factory reset.
 - It is the customer's responsibility to ensure compliance with local regulations for frequency bands, transmit power, and others.
 - To manage GWN7660ELR over the cloud, please refer to <https://www.gdms.cloud>.
-
- Do not attempt to open, disassemble, or modify the device.
 - Do not expose this device to temperatures outside the range of -30 °C to 60 °C for operating and -30 °C to 70 °C for storage.
 - Do not expose the GWN7660ELR to environments outside of the following humidity range: 5-95% RH (non-condensing).
 - Do not power cycle your GWN7660ELR 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.

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>



BE	BG	CZ	DK	DE	EE	IE	EL	LI
ES	FR	HR	IT	CY	LV	LT	LU	CH
HU	MT	NL	AT	PL	PT	RO	SI	TR
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,
please visit www.grandstream.com