



Grandstream Networks, Inc.

GWN7670LR Access Point

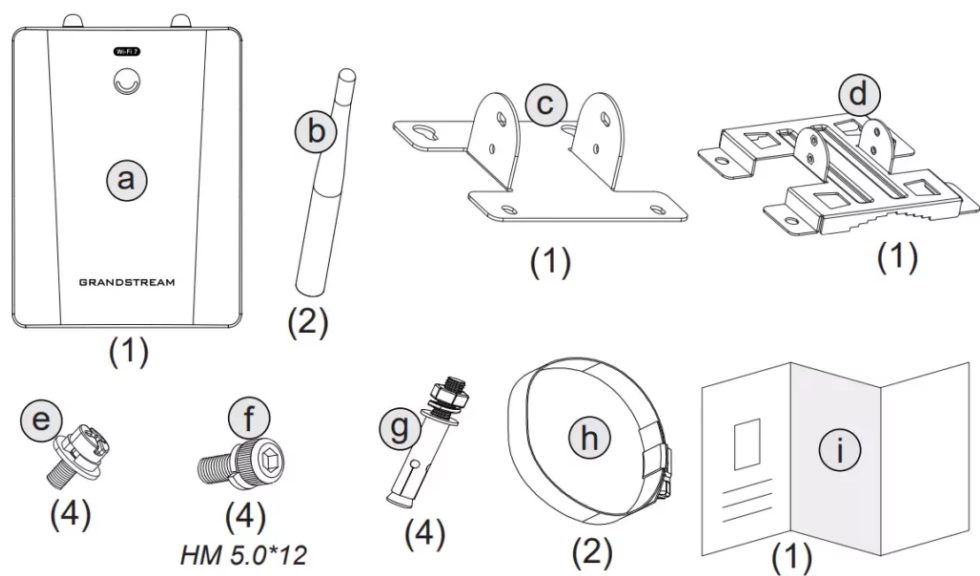
Quick Installation Guide



Overview

The GWN7670LR is a long-range Wi-Fi 7 access point, ideal for medium-to-large businesses that need to provide long-range coverage. It offers IP66-level weatherproof capability, dual-band 2×2:2 MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. It supports flexible switching between internal directional antennas and external omnidirectional antennas. It can be combined with directional antenna and PTMP technology (pending) to serve as a professional long-range wireless bridge. With 4096 QAM modulation, Wi-Fi 7 achieves a significant increase in data transfer rates. MLO technology optimizes spectrum resource utilization to ensure a smooth experience for every user. To ensure easy installation and management, the GWN7670LR uses a controller-less distributed network management design in which the controller is embedded within the product's Web User Interface. The GWN7670LR is also supported by GDMS Networking and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform. It is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, BLE 5.3, 256 concurrent clients per AP, 1×2.5 Gigabit network port with PoE+ and 1x 2.5 Gigabit SFP port. GWN7670LR is an ideal long-range Wi-Fi access point for enterprises, multiple floor offices, warehouses, parks, hospitals, schools and more.

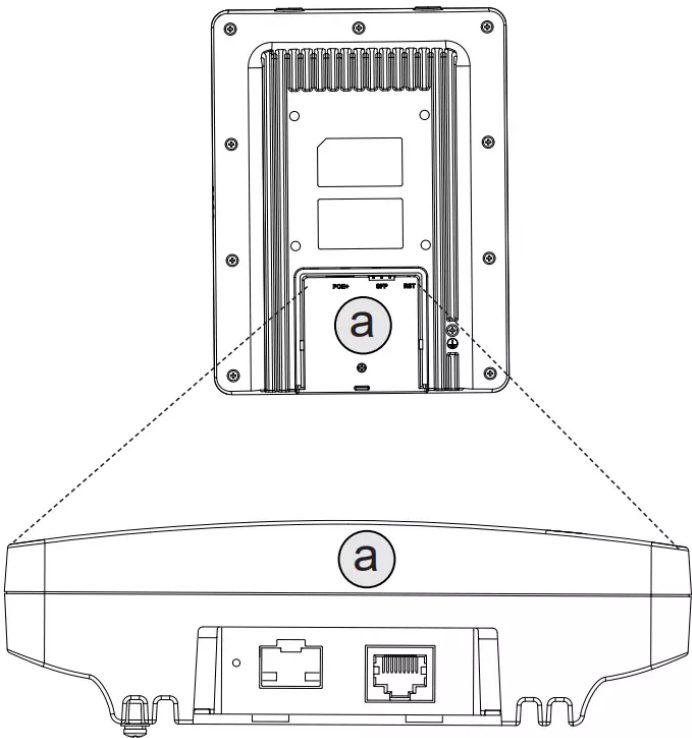
Package Contents



Package Contents

Label	Description
a	1x GWN7670LR Access Point
b	2x Antenna
c	1x Base Bracket (mounted on the back of the device)
d	1x Wall/Pole Mount Bracket
e	4x Screws
f	4x HM 5.0*12 Screws
g	4x Expansion Bolts
h	2x Metal Straps
i	1x Quick Installation Guide and Regulatory Paper

GWN7670LR Ports



Ports

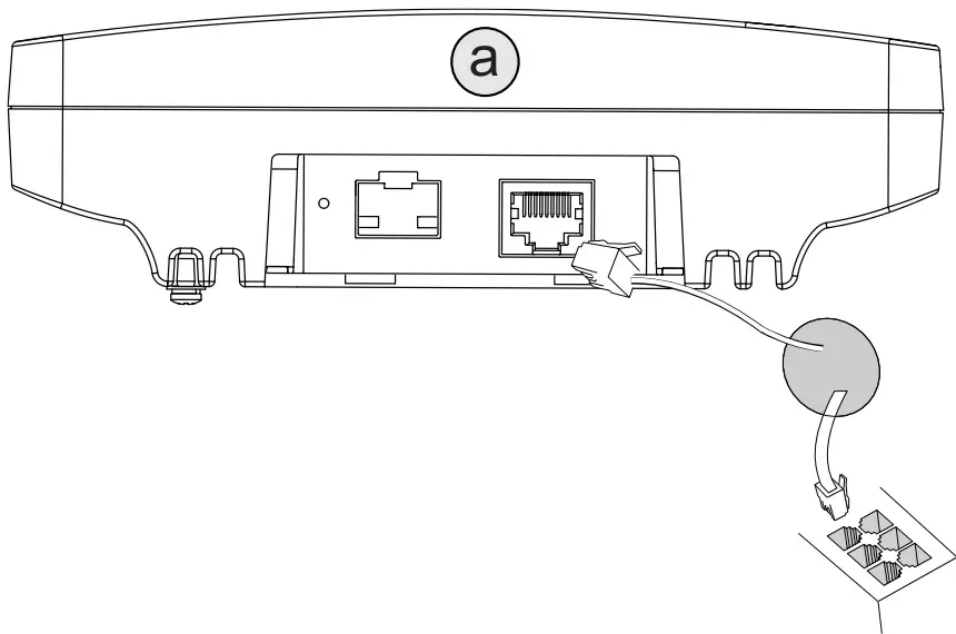
Port	Description
SFP Port	2.5G SFP Port
NET/POE 2.5 G	Ethernet RJ45 port 2.5Gbps to your router or another GWN76xx, support PoE+ In.
RESET	Factory reset button. Press for 7 seconds to reset factory default settings.

Ports

Powering and Connecting the GWN7670LR

GWN7670LR can be powered on using PoE+ switch using the following steps:

- Step 1:** Plug an RJ45 Ethernet cable into the network port of the GWN7670LR.
- Step 2:** Plug the other end into the uplink port of the power over Ethernet (PoE+) switch.



Powering and connecting the GWN7670LR

Note:

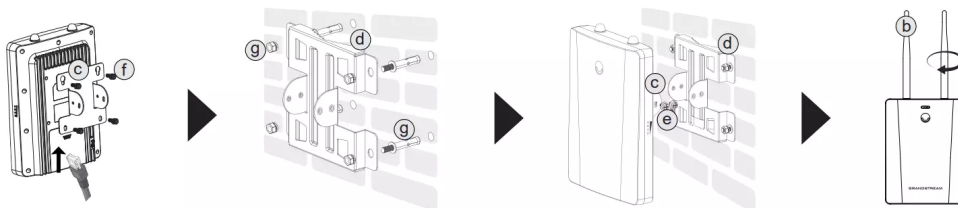
- If GWN7670LR is connected using the SFP port, please connect the RJ45 Ethernet port to a PoE+ switch or a PoE+ injector without the uplink to power device.
- It's recommended to power the unit using the 802.3at standard (PoE+).

Hardware Installation

GWN7670LR can be mounted on the wall or on a metal bar, Please refer to the following steps for the appropriate installation.

Wall Mount

1. Connect the Ethernet (RJ45) cable to the correct port on the **GWN7670LR**.
2. Attach the **Base Bracket (c)** to the back of the device using the **HM 5.0×12 screws (f)**.
3. Drill four holes on the wall using the **Mounting Bracket (d)** as a template.
4. Insert the **Expansion Bolts (g)** into the holes and secure the **Mounting Bracket (d)** to the wall.
5. Align the **Base Bracket (c)** with the **Mounting Bracket (d)** and fasten them together using the **Screws (e)**.
6. Attach both **Antennas (b)** to the device.
7. Ensure the access point is securely fixed and all connections are tight.

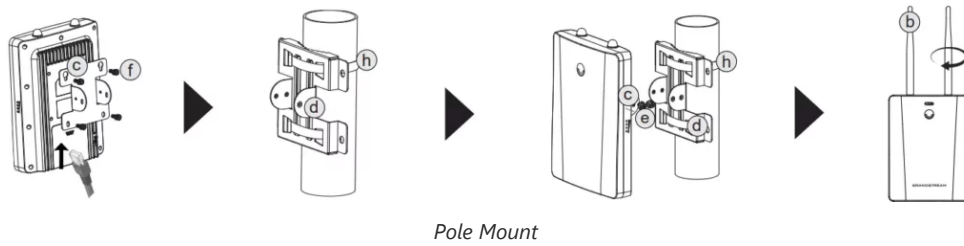


Wall Mount

Pole Mount

1. Connect the Ethernet (RJ45) cable to the correct port on the **GWN7670LR**.
2. Attach the **Base Bracket (c)** to the back of the device using the **HM 5.0×12 screws (f)**.
3. Place the **Mounting Bracket (d)** against the pole and loop the **Metal Straps (h)** through the bracket slots.

4. Tighten the **Metal Straps (h)** securely around the pole to hold the **Mounting Bracket (d)** in place.
5. Align the **Base Bracket (c)** on the device with the **Mounting Bracket (d)** and fasten them together using the **Screws (e)**.
6. Attach both **Antennas (b)** to the access point.
7. Check that the device is firmly mounted and the connections are stable.



Antenna Application Scenarios

Directional antennas (internal)

- **When to use**

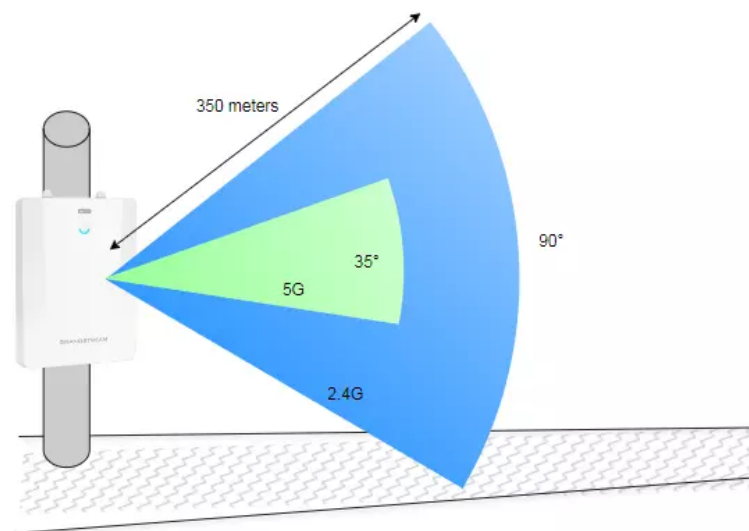
Long, narrow coverage zones or sectorized areas with higher user density where limiting spillover and interference matters. Typical environments include tunnels, stadium stands, corridors, and platforms.

- **Why it fits**

The internal directional antennas provide focused coverage for greater reach and tighter interference control. Typical beamwidths are ~90° on 2.4 GHz and ~35° on 5 GHz.

- **Range guidance**

For links or sectors beyond ~200 m, directional coverage is recommended. In open conditions, the GWN7670LR can reach approximately 350 m.



Directional antennas internal

Omnidirectional antennas (external)

- **Required hardware**

Install the **external omnidirectional antennas** to enable omni coverage. Attach both antennas securely, keep them vertical, and ensure clear space around the AP.

- **When to use**

Open areas with evenly distributed users and no preferred direction of coverage. Typical environments include playgrounds, exhibition areas, and small plazas.

- **Why it fits**

A 360° radiation pattern delivers uniform coverage around the AP for nearby clients on both 2.4 GHz and 5 GHz,

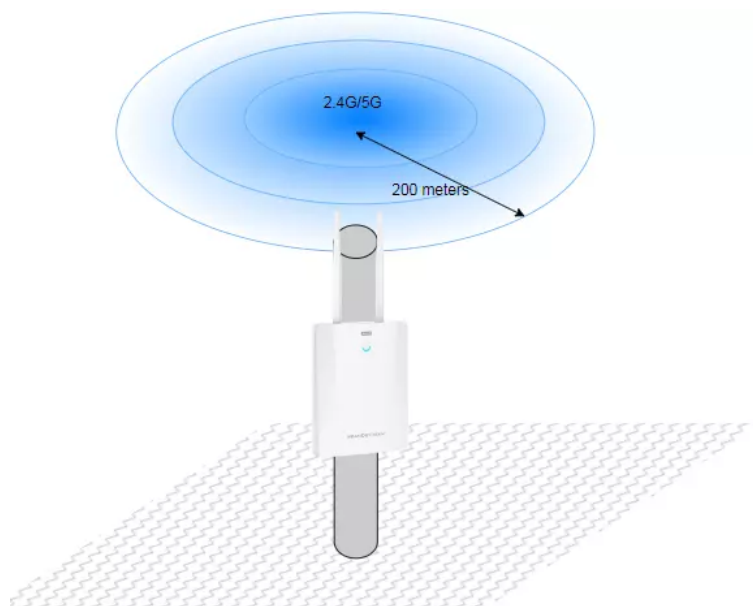
simplifying placement in compact open spaces.

- **Range guidance**

Plan for a practical radius of $\leq \sim 200$ m with external omni antennas. If the area is larger or needs tighter control, use the internal directional antennas instead.

- **Installation notes**

Mount at an appropriate height, avoid major obstructions, and route cabling to minimize interference. Follow local regulatory limits for transmit power and channels.



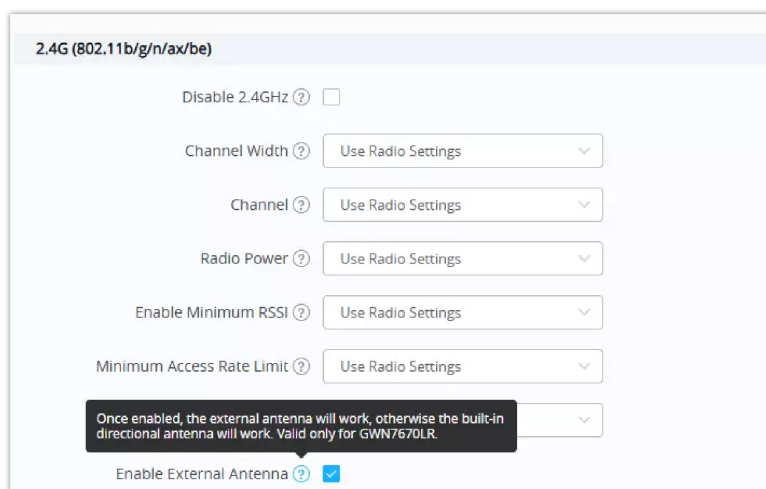
Omnidirectional antennas external

General note: Actual performance varies with mounting height, obstacles, interference, client capabilities, and regulatory constraints.

Configuration step (required for Omnidirectional setup)

After installing the external antennas, log in to the device and enable the external antenna setting:

1. Go to **Access Point** → **Configuration**.
2. For each radio you will use with the external antennas (2.4 GHz and/or 5 GHz), enable **External Antenna**.
3. Save/Apply.



Enable External Antenna

Connect to GWN7670LR Default Wi-Fi Network

GWN7670LR 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 GWN7670LR and connecting it to the network, GWN7670LR will broadcast a default SSID based on its MAC address GWN[**MAC's last 6 digits**] and a random password.

GWN7670LR's default password information is printed on the sticker in the back of the unit.

Accessing the Configuration Interface

A computer connected to the GWN7670LR's SSID, or to the same network as the GWN7670LR can discover and access its configuration interface using one of the below methods:

Method 1: Discover GWN7670LR 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 GWN7670LR, type in the following address using GWN7670LR's MAC address on your browser **`https://gwn_<mac>.local`**

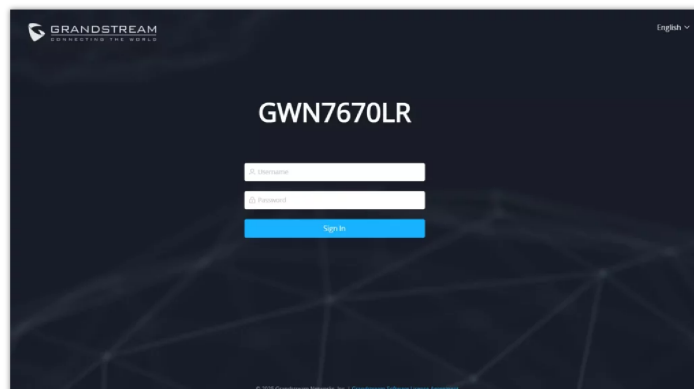
Example: If a GWN7670LR has the MAC address EC:74:D7:8C:4D:F8, this unit can be accessed by typing **`https://gwn_ec74d78c4df8.local`** on the browser.



MAC Tag

Method 2: Discover GWN7670LR 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 GWN7670LR'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 GWN7670LR).



GWN7670LR login page

- Make sure that the GWN7670LR 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 GWN7670LR 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 GWN7670LR over the cloud, please refer to <https://www.gdms.cloud>.
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- 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 -40 °C to 70 °C for storage.
 - Do not expose the GWN7670LR to environments outside of the following humidity range: 10-90% RH (non-condensing).
 - Do not power cycle your GWN7670LR 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