

The user manual for LE-LAN devices shall contain instructions related to the restrictions mentioned in the above sections, namely that:

- i.for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
- ii.for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and

i.pour les dispositifs à antenne (s) détachable (s), le gain d'antenne maximal autorisé pour les dispositifs dans les bandes 5250-5350 MHz et 5470-5725 MHz doit être tel que l'équipement soit toujours conforme à la norme e.i.r.p. limite;

ii.pour les dispositifs à antenne (s) détachable (s), le gain d'antenne maximal autorisé pour les dispositifs de la bande 5725-5850 MHz doit être tel que l'équipement soit toujours conforme à la norme e.i.r.p. les limites, le cas échéant; et

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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



GWN7670LR

Long-Range Dual-band Wi-Fi 7 Access Point/Bridge

Quick Installation Guide

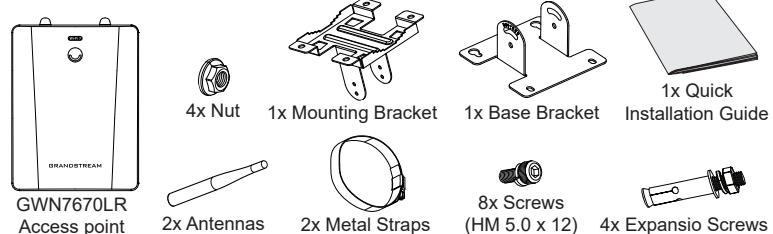
OVERVIEW

The GWN7670LR is a new generation long-range Wi-Fi 7 access point, ideal for medium-to-large businesses who need to provide long-range coverage. It offers IP66-level weatherproof capability, dual-band 2x2:2 MU-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 PTP, PTMP technology 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, BT location with BLE 5.3, 256 concurrent clients per AP, 1x2.5 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.

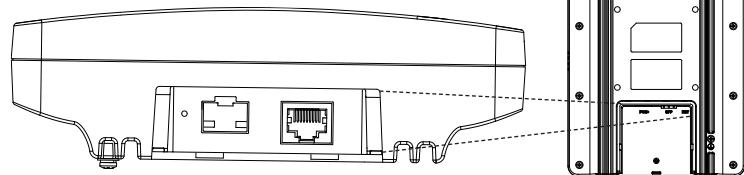
PRECAUTIONS

- 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 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.

PACKAGE CONTENTS



GWN7670LR PORTS



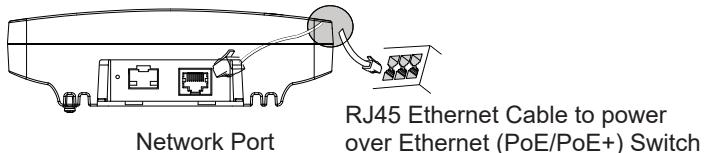
Port	Description
SFP	2.5Gbps SFP Port.
NET/2.5 (PoE+)	2.5Gbps Ethernet RJ45 port supporting PoE/PoE+.
RST	Factory reset pinhole. Press for 7 seconds to reset factory default settings.

POWERING AND CONNECTING THE GWN7670LR

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

Step 1: Plug a 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/PoE+) switch.

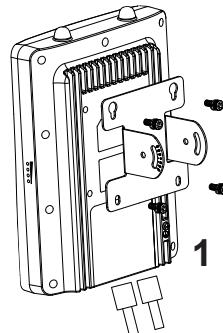


HARDWARE INSTALLATION

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

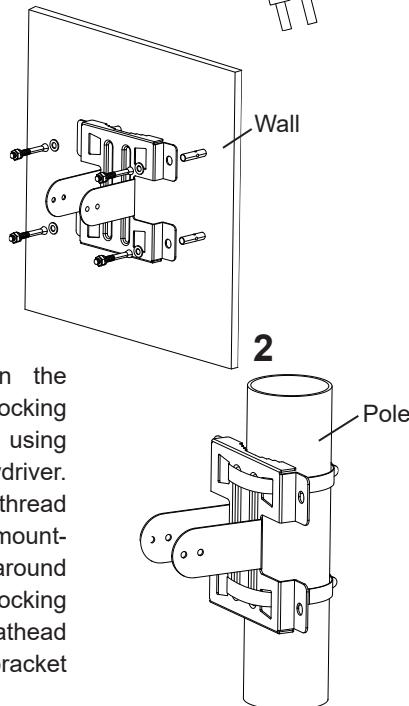
Wall & Pole Mount

1. Connect the Ethernet cable (RJ45) or fiber cable (SFP module) to the appropriate port on your GWN7670LR and secure it with the cover bracket. Attach the Base Bracket to the back of the GWN7670LR using the provided screws (HM 5.0 x 12) with the round hole facing up.



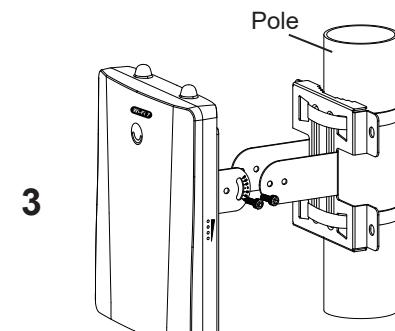
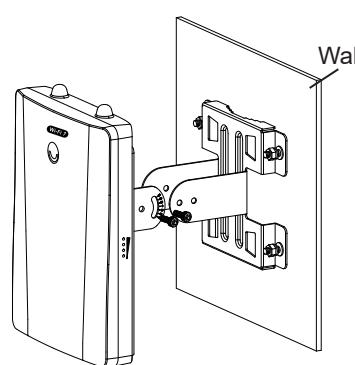
2. Mounting Bracket Installation:

- For wall installation: Use the Mounting Bracket as a drill template to mark the positions for four holes on the wall. Drill the holes, insert expansion screws, and secure the Mounting Bracket to the wall.

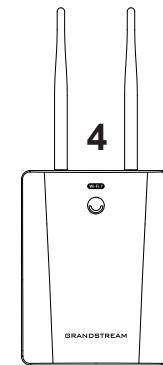


- For pole installation: Loosen the metal straps by turning the locking mechanism counterclockwise using your hand or a flathead screwdriver. Straighten the strap ends and thread them through the back of the mounting bracket. Wrap the straps around the pole, then tighten the locking mechanism clockwise with a flathead screwdriver to secure the bracket firmly.

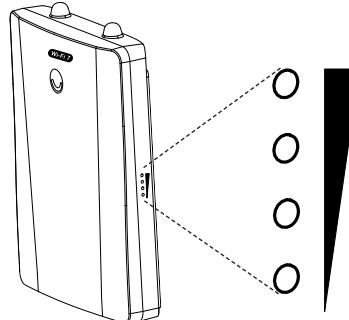
3. Assemble the Base Bracket and Mounting Bracket together using a screwd (HM 5.0 x 12). Ensure all screws are tightened securely, and confirm the GWN7670LR is stable and properly installed.



4. Remove the protective caps from the antenna connectors. Align the antennas with the external connectors and rotate clockwise until securely fastened.



PTP/PTMP Signal Strength Indicator LEDs



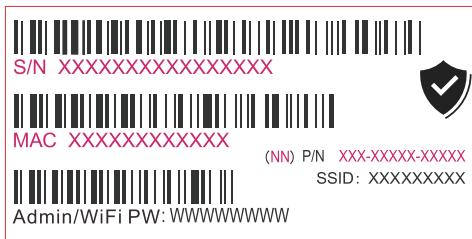
The 4 blue LEDs indicate signal strength, enabling precise alignment for Point-to-Point (PTP) and Point-to-Multi-Point (PTMP) connections.

CONNECT TO GWN7670LR DEFAULT Wi-Fi NETWORK

GWN7670LR can be used as standalone access point out of box, or after factory reset with Wi-Fi enabled by default.

After powering the GWN7670LR and connecting it to the network, GWN-7670LR will broadcast a default SSID based on its MAC address GWN-[MAC's last 6 digits] and a random password.

Note: GWN7670LR's default SSID and password information are printed on the MAC tag 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 same network as the GWN7670LR, type in 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.

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 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.
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 username and password to login. (The default administrator username is "admin" and the default random password can be found at the sticker on the GWN7670LR).



Notes:

- Make sure that the GWN7670LR is not already paired with another GWN76xx Access Point as slave, GWN Router, GCC device or GDMS Networking Cloud, 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 customer's responsibility to ensure compliance with local regulations for frequency bands, transmit power and others.
- To manage GWN7670LR over cloud, please refer to <https://www.gdms.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:
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