GRANDSTREAM
CONNECTING THE WORLD

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GWN7600LR
Outdoor Long-range 802.11ac Wave-2
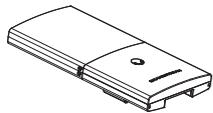WiFi Access Point

Quick Installation Guide

Content

OVERVIEW

This WiFi long range access point is designed to provide extended coverage support. Ideal for outdoor WiFi solutions thanks to its waterproof casing and heat resistant technology. The GWN7600LR comes equipped with dual-band 2x2:2 MU-MIMO with beam-forming technology and a sophisticated antenna design for maximum network throughput and extended WiFi coverage range of up to 275 meters. To ensure easy installation and management, the GWN7600LR uses a controller-less distributed network management design and an embeded controller within the product's web user interface. This allows each access point to manage a network of up to 30 GWN76xx series APs independently without needing separate controller hardware/software and without a single point-of-failure. Its easy installation and management features packed with extra coverage support and advanced performance features make the GWN7600LR an ideal enterprise AP for mid-size wireless network deployments.

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 operation.
● Do not expose this device to temperatures outside range of -30 °C to 60 °C for storage.
● Do not expose the GWN7600LR to environments outside of the following humidity range: 10-90% RH (non-condensing).
● Do not power cycle your GWN7600LR during system boot up or firmware upgrade. You may corrupt firmware images and cause the unit to malfunction.
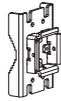
PACKAGE CONTENTS

1 x GWN7600LR Access Point
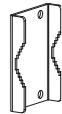
1 x Cover Bracket

1 x Base Bracket

4 x Screw (PM8 x 115)

1 x Hex Key

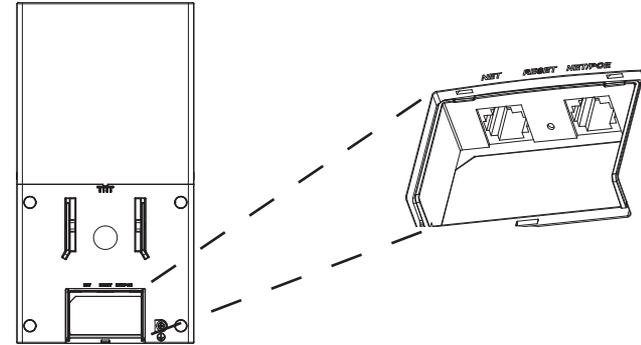4 x Screws and Anchors

4 x Locknut

2 x Assembled Screw

1 x Quick Installation Guide
1 x GPL Statement

GWN7600LR PORTS

| Port	Description
NET/POE	Ethernet RJ45 port (10/100/1000Mbps) supporting PoE.
NET	Ethernet RJ45 port (10/100/1000Mbps) to your router or another GWN76xx.
RESET	Factory reset button. Press for 7 seconds to reset factory default settings.

POWERING AND CONNECTING THE GWN7600LR

GWN7600LR can be powered on via PoE switch using following steps:

Step 1:
Plug a RJ45 Ethernet cable into the network port of the GWN7600LR.
Step 2:
Plug the other end into the uplink port of the power over Ethernet (PoE) switch.

Network Port

RJ45 Ethernet Cable to power over Ethernet (PoE) Switch
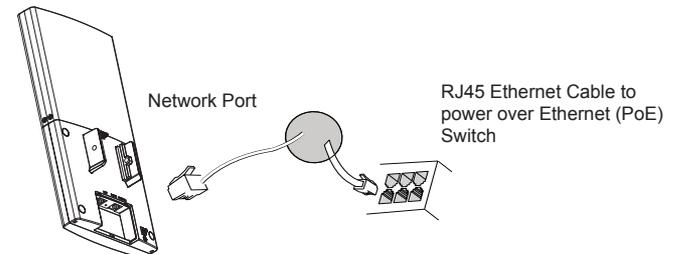
HARDWARE INSTALLATION

GWN7600LR can be mounted horizontally or vertically on a metal bar.
Please refer to the following steps for the appropriate installation.

Vertical Mounting

1. Prepare the Cover Bracket by inserting the 4 screws (PM8) into corresponding holes.
2. Attach the Cover Bracket with screws on the vertical Mounting Bolt where GWN7600LR will be installed.
3. Assemble the Base Bracket with the Cover Bracket using provided locknuts and screws (PM8).
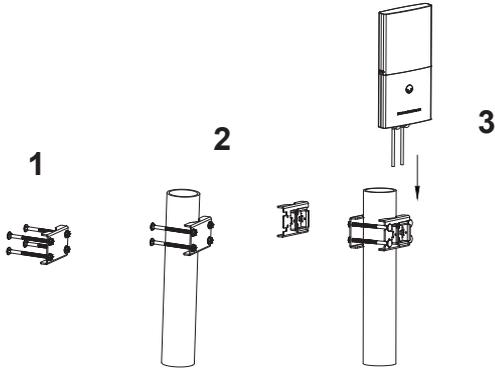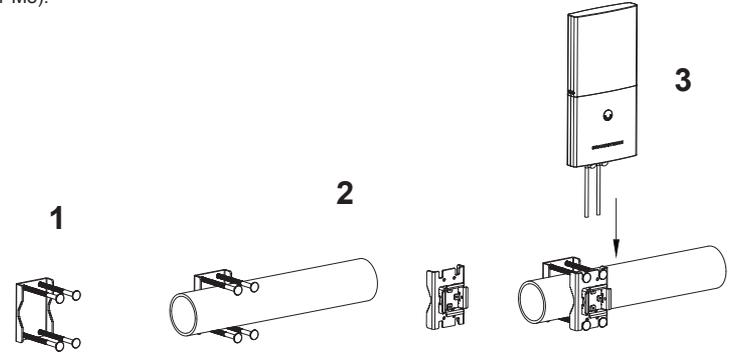

4. Connect the Ethernet cable (RJ45) to the correct ports of your GWN7600LR.
5. Align the GWN7600LR with the Base Bracket and pull it down to the right position.
6. Install the 2x Assembled screws to fix GWN7600LR on the Mounting Bolt.
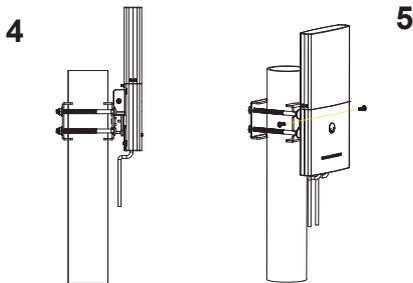

Horizontal Mounting

1. Prepare the Cover Bracket by inserting the 4 screws (PM8) into corresponding holes.
2. Attach the Cover Bracket with screws on the horizontal Mounting Bolt where GWN7600LR will be installed.
3. Assemble the Base Bracket with the Cover Bracket using provided locknuts and screws (PM8).

4. Connect the Ethernet cable (RJ45) to the correct ports of your GWN7600LR.
5. Align the GWN7600LR with the Base Bracket and pull it down to the right position.
6. Install the 2x Assembled screws to fix GWN7600LR on the Mounting Bolt.
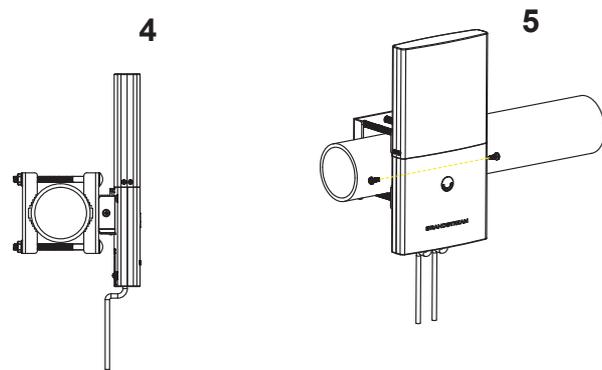
CONNECT TO GWN7600LR DEFAULT WIFI NETWORK

GWN7600LR can be used as standalone access point out of box, or after factory reset with Wi-Fi enabled by default.

After powering the GWN7600LR and connecting it to the network, GWN7600LR will broadcast a default SSID based on its MAC address **GWN[MAC's last 6 digits]** and a random password.

Note: GWN7600LR's default SSID and password information are printed on the MAC tag of the unit.
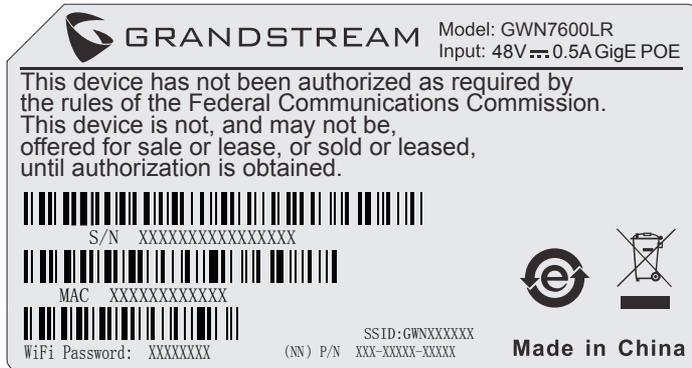
ACCESSING THE CONFIGURATION INTERFACE

A computer connected to the GWN7600LR's SSID, or to the same network as the GWN-7600LR can discover and access its configuration interface using one of the below methods:

**Method 1: Discover GWN7600LR 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 GWN7600LR, type in following address using GWN7600LR's MAC address on your browser **https://gwn_<mac>.local**

Example: A GWN7600LR with MAC address 00:0B:82:8C:4D:F8 can be accessed by typing **https://gwn_000b828c4df8.local** on the browser.

Method 2: Discover GWN7600LR using GWN Discovery Tool

1. Download and install **GWN Discovery Tool** from the following link:
   http://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 GWN7600LR's configuration interface, or type in manually the displayed IP address on your browser.

Using one of the above methods, the login screen will appear. Type in "admin" in both Username and Password fields and click on **Sign In.**
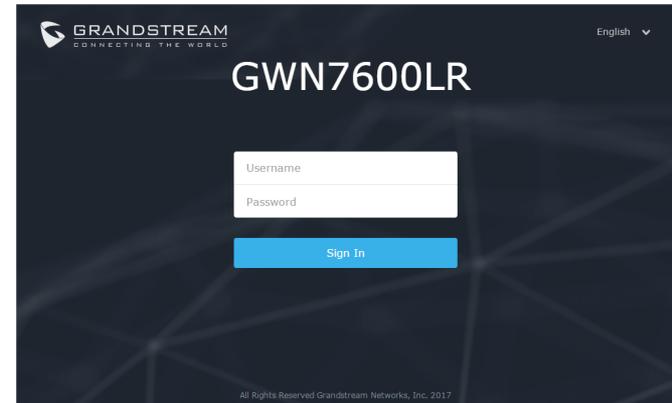
Notes :

● Make sure that the GWN7600LR is not already controlled by another GWN Series as slave, otherwise the configuration interface cannot be accessed.

● If the GWN7600LR is a slave, make sure to unpair it first, or do a factory reset.

Please download GWN7600LR User Manual and check out FAQ
for more detailed instructions:
http://www.grandstream.com/our-products

概述

此远程无线Wi-Fi接入点是为支持更大的信号覆盖面而设计的。此设备凭借着良好的防水和耐热技术成为了户外Wi-Fi的理想设备。GWN7600LR利用聚束技术支持双频段的2x2:2MU-MI-MO，同时利用复杂的天线设计以提供最大化的网络吞吐量以及高达275米的Wi-Fi覆盖面。为保证安装和管理的简易性，GWN7600采用无控制器的分布式网络管理设计。通过在产品的网页用户界面中嵌入控制器，实现每个接入点在保证不会产生故障点的情况下，无需借助其他控制器硬件/软件就能独立管理由多达30个GWN76xx系列AP构成的网络。凭借着安装和管理的简易性以及支持大面积覆盖和其他优越的性能，GWN7600LR成为了理想的部署中型无线网络的企业级无线AP。

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℃以外。
- 不要将本设备暴露在环境湿度如下范围以外：10-90%RH（无冷凝）。
- 系统启动或固件升级期间不要中断电源。这可能会损坏设备固件，并导致设备故障。
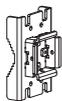
包装内容
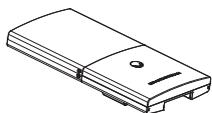
1 x GWN7600LR 无线接入点

1 x 安装支架后盖

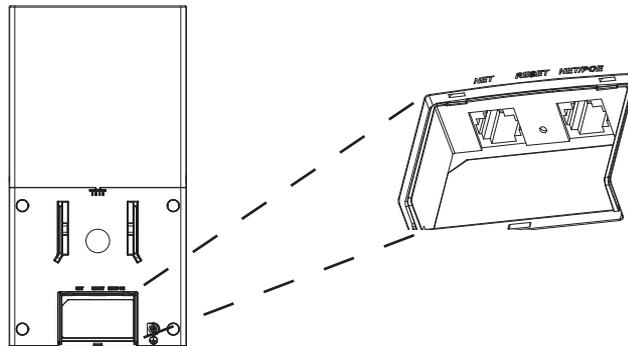1 x 安装支架底座

4 x 螺丝 (PM8 x 115)

1 x 六角扳手

4 x 螺丝和螺帽

4 x 防松螺母

2 x 组合螺丝

1 x 快速安装手册
1 x GPL 声明

GWN7600LR 端口

Port	Description
NET/POE	以太网RJ45端口（10/100 /1000Mbps），需要支持PoE 。
NET	以太网RJ45端口（10/100 /1000Mbps），连接至路由器或另一个GWN76xx。
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 GWN7600LR

通过如下方式可对GWN7600LR 进行PoE供电：

Step 1:
将以太网电缆的RJ45端口插入GWN7600LR的网络端口中；

Step 2:
将电缆的另一端插入交换机的PoE级联端口。
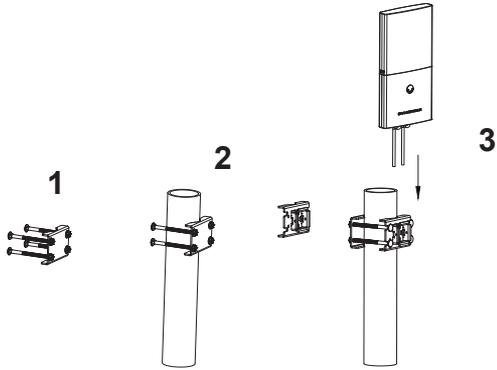

网络端口

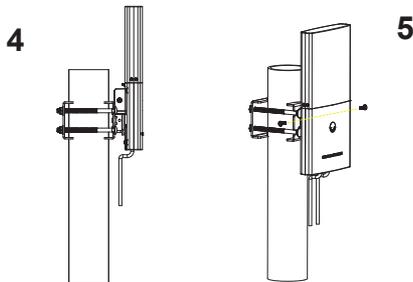RJ45电缆连接到以太网供电的（PoE）交换机或者PoE供电转换头。
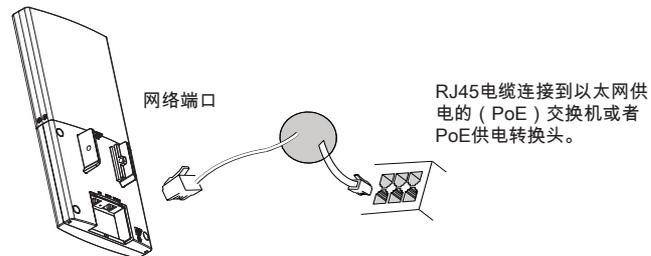
硬件安装

GWN7600LR可以安装在横向和纵向杆子上。

请按照如下步骤进行正确安装。

纵杆安装

1. 将4个(PM8)螺丝插入安装支架后盖的四个螺丝孔中备用。

2. 将装有螺丝的安装支架后盖的凹槽对准将要安装GWN7600LR的纵杆并卡入。
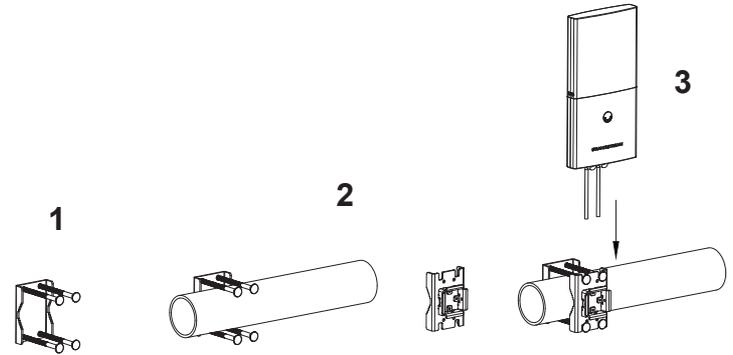
3. 利用安装包内的防松螺母和（PM8）螺丝，将安装支架后盖和安装支架底座组装起来。

4. 将以太网电缆RJ45连接到GWN7600LR正确的端口,并合上接口后盖。

5. 将GWN7600LR对准安装支架底座并自上而下卡入直至主机背面的定位柱顶住底座。

6. 将2颗组合螺丝拧入主机背面的螺孔中，直至GWN7600LR牢牢固定在安装支架上。

横杆安装

1. 将4个(PM8)螺丝插入安装支架后盖的四个螺丝孔中备用。

2. 将装有螺丝的安装支架后盖的凹槽对准将要安装GWN7600LR的横杆并卡入。

3. 利用安装包内的防松螺母和（PM8）螺丝，将安装支架后盖和安装支架底座组装起来。

4. 将以太网电缆RJ45连接到GWN7600LR正确的端口,并合上接口后盖。

5. 将GWN7600LR对准安装支架底座并自上而下卡入直至主机背面的定位柱顶住底座。

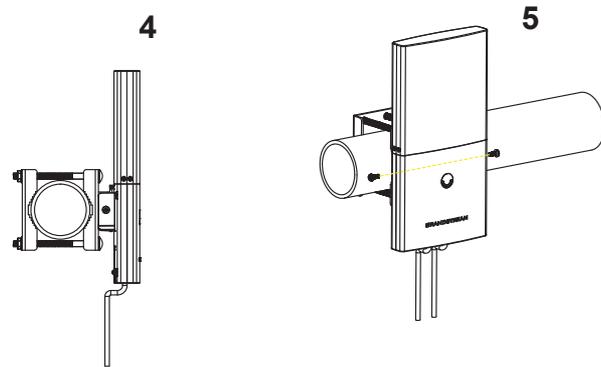6. 将2颗组合螺丝拧入主机背面的螺孔中，直至GWN7600LR牢牢固定在安装支架上。

连接到GWN7600LR默认的无线网络

新的GWN7600LR会有默认的WiFi广播。 恢复出厂设置也能使默认WiFi启动。

将GWN7600LR上电起机并连接至网络，GWN7600LR会广播默认的SSID。该SSID是基于设备的MAC地址后六位： GWN[MAC后六位]，并且使用随机的密码。

注意：GWN7600LR的默认SSID和随机密码打印在设备的MAC地址贴纸上。

访问配置页面

将电脑连接到GWN7600LR广播的无线网，或GWN7600LR所在的局域网。就可以用以下的几种方式来发现并访问GWN7600的配置页面：

方法1：用MAC地址来发现GWN7600LR。

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GWN7600LR广播的无线网，或GWN7600LR所在的局域网的电脑上，用浏览器输入网址：https://gwn_<mac>.local

比如：如果GWN7600LR的MAC地址为00:B8:8B:7E:7E:7E，那么则输入

https://gwn_00b88b7e7e7e.local

方法2：用GWNDiscoveryTool发现GWN7600LR。

1. 从下面的连接下载GWNDiscoveryTool: http://www.grandstream.com/support/tools
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GWN7600LR并显示他们MAC地址和IP地址。
4. 点击Manage Device（管理设备）后，你将被引导到GWN7600LR的配置界面。或者也可以通过在浏览器中输入所查找到GWN7600LR的IP地址。

使用上面所述的一种方法，你会看到一个登陆界面。在用户名和密码均输入默认的"admin"，点击Sign in（登陆）。
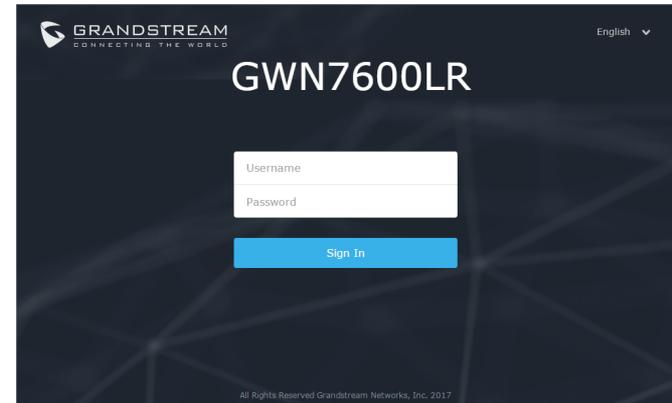
备注：

● 确认GWN7600LR并没有被配对到另一个GWN76XX无线AP，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GWN7600LR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。

欲获取详细的话机使用信息，请在以下链接中下载GWN7600LR用户手册。

http://www.grandstream.com/support