Grandstream GRANDSTREAM-GWN7660LR

Grandstream GWN7664LR Wi-Fi 6 Outdoor Long Range AP User Manual

Model: GWN7664LR

INTRODUCTION

The Grandstream GWN7664LR is a high-performance Wi-Fi 6 outdoor long-range access point designed to provide robust and reliable wireless connectivity in various outdoor environments. This manual provides comprehensive instructions for the installation, configuration, and maintenance of your GWN7664LR access point, ensuring optimal performance and longevity.

SAFETY INFORMATION

Please read and follow all safety instructions carefully to prevent injury or damage to the device. Keep this manual for future reference.

- Do not expose the device to water or moisture.

- Do not open or attempt to repair the device yourself. Refer all servicing to qualified personnel.

- Use only power adapters and accessories specified by the manufacturer.

- Ensure proper grounding for outdoor installations to protect against lightning and static discharge.

- Install the device in a location that complies with local regulations and safety standards.

- Disconnect power before cleaning or performing any maintenance.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Grandstream GWN7664LR Wi-Fi 6 Outdoor Long Range AP

- Mounting Kit (brackets, screws, anchors)

- Quick Installation Guide

Note: PoE injector or power adapter is not included and must be purchased separately.

PRODUCT OVERVIEW

Familiarize yourself with the components of your GWN7664LR access point.

Figure 1: Front View
Shows the front of the access point with the Grandstream logo and LED indicators for power and Wi-Fi status.

Figure 2: Side View

Illustrates the slim profile of the access point with its four detachable antennas.

Figure 3: Back View

Displays the mounting plate area and connection ports on the rear of the device.

Figure 4: Alternate Side View
A different perspective showing the side of the unit, highlighting its compact design.

LED Indicators:

- **Power LED:** Indicates power status. Solid blue for normal operation.
- **Wi-Fi LED:** Indicates Wi-Fi activity. Blinking for data transmission.

Ports:

- **LAN/PoE Port:** Gigabit Ethernet port for network connection and Power over Ethernet (PoE/PoE+) input.
- **Reset Button:** Used to reset the device to factory defaults.

SETUP

Follow these steps for initial setup and installation of your GWN7664LR access point.

1. Mounting the Access Point:

The GWN7664LR is designed for outdoor wall or pole mounting. Choose a location that provides optimal Wi-Fi coverage and is protected from direct impact.

1. Attach the mounting bracket to the desired surface (wall or pole) using the provided screws and anchors.
2. Securely attach the GWN7664LR access point to the mounting bracket. Ensure it clicks into place.

2. Powering the Device:

The GWN7664LR supports Power over Ethernet (PoE/PoE+).

1. Connect an Ethernet cable from a PoE/PoE+ enabled switch or a PoE injector (not included) to the LAN/PoE port on the GWN7664LR.
2. Ensure the PoE source provides sufficient power (48V DC, 0.5A or higher).
3. The Power LED on the access point will illuminate once power is successfully applied.

3. Network Connection:

Connect the GWN7664LR to your network infrastructure.

1. The Ethernet cable connected for PoE will also provide network connectivity.
2. Ensure the network segment is configured correctly for the access point to obtain an IP address via DHCP or assign a static IP.

4. Initial Configuration:

Access the web interface for initial configuration.

1. Connect a computer to the same network as the GWN7664LR.
2. Open a web browser and enter the IP address of the GWN7664LR (default is usually found via a discovery tool or DHCP client list).
3. Log in using the default credentials (refer to the Quick Installation Guide for default username and password).
4. Follow the on-screen wizard to set up Wi-Fi SSIDs, security settings, and administrative passwords.

OPERATING THE DEVICE

Once configured, the GWN7664LR will broadcast your Wi-Fi networks. Here are key operational aspects:

- **Wireless Throughput:** The device supports 3.55Gbps aggregate wireless throughput, providing high-speed connectivity.
- **Wired Throughput:** Features 2.5Gbps aggregate wired throughput for robust backhaul.
- **MU-MIMO and OFDMA:** Utilizes Dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology for efficient multi-user communication.
- **Client Support:** Capable of supporting over 750 concurrent Wi-Fi client devices.
- **Coverage Range:** Offers an extensive coverage range of up to 300 meters.
- **QoS:** Advanced Quality of Service (QoS) ensures real-time performance for low-latency applications like voice and video.
- **Security:** Features anti-hacking secure boot and critical data/control lockdown for enhanced security.
- **Antenna Flexibility:** Equipped with 4 detachable/changeable antennas, allowing for adaptation to different application scenarios.
- **Embedded Controller:** Can manage up to 50 local GWN Access Points without requiring a separate controller

hardware/software.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your GWN7664LR.

- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Firmware Updates:** Regularly check the Grandstream website for firmware updates. Keeping the firmware up-to-date ensures the latest features, security patches, and performance improvements.
- **Environmental Check:** Ensure the installation environment remains within the specified operating temperature and humidity ranges.
- **Antenna Check:** Periodically verify that the detachable antennas are securely fastened.

TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Device not powering on (No Power LED)	No PoE power; Faulty Ethernet cable; PoE source issue.	Verify PoE source is active and providing power. Check Ethernet cable connection and integrity. Ensure PoE injector/switch is functioning correctly.
Cannot access web interface	Incorrect IP address; Network connectivity issue; Firewall blocking access.	Ensure your computer is on the same network segment. Use a discovery tool to find the AP's IP. Temporarily disable computer firewall. Try resetting the AP to factory defaults if necessary.
Poor Wi-Fi signal or slow speeds	Interference; Suboptimal placement; Outdated firmware; Channel congestion.	Relocate the AP for better line-of-sight. Check for sources of interference. Update firmware. Adjust Wi-Fi channels to less congested ones.
Clients cannot connect to Wi-Fi	Incorrect Wi-Fi password; SSID not broadcasting; MAC filtering enabled.	Verify Wi-Fi password. Check AP configuration to ensure SSID broadcast is enabled. Disable MAC filtering or add client MAC addresses.

SPECIFICATIONS

Feature	Detail
Model Number	GRANDSTREAM-GWN7660LR (Note: Product title is GWN7664LR, but item model number is GWN7660LR as per specifications)
Wireless Throughput	3.55Gbps aggregate
Wired Throughput	2.5Gbps aggregate

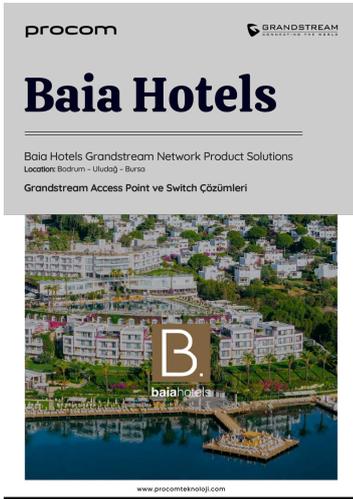| Feature	Detail
MIMO Technology	Dual-band 4x4:4 MU-MIMO with DL/UL OFDMA
Concurrent Clients	750+
Coverage Range	Up to 300 meters
Power Input	PoE or PoE+ (Power adapter not included)
Product Dimensions	19.69 x 19.69 x 11.02 inches
Item Weight	14.1 ounces
Manufacturer	Grandstream
First Available Date	December 1, 2022

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Grandstream website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: Grandstream

Website: www.grandstream.com

Documents - Grandstream – GRANDSTREAM-GWN7660LR

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