



# Outdoor Long Range 802.11ac Wave-2 Wi-Fi Access Point

## GWN7600LR

This long range Wi-Fi access point is designed to provide extended coverage support and is ideal for outdoor Wi-Fi 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 Wi-Fi coverage range of up to 300 meters. To ensure easy installation and management, the GWN7600LR uses a controller-less distributed network management design and an embedded controller within the product's web user interface. This allows each access point to manage a network of up to 30 GWN 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 outdoor access point for mid-size wireless network deployments.



### Gigabit

1.27Gbps wireless throughput and 2x Gigabit wireline ports



Dual-band 2x2:2 MU-MIMO with beam-forming technology



### PoE

Support 802.3af and 802.3at Power-over-Ethernet (PoE/PoE+)



Support 450+ concurrent Wi-Fi client devices



Up to 300-meter coverage range



Advanced QoS to ensure real-time performance of low-latency applications



Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device



Embedded controller can manage up to 30 local GWN series APs; GWN.Cloud offers unlimited AP management; GWN Manager offers premise-based software controller

<b>Wi-Fi Standards</b>	IEEE 802.11 a/b/g/n/ac (Wave-2)
<b>Antennas</b>	2x2.4 GHz, gain 4 dBi, internal antenna 2x5 GHz, gain 5 dBi, internal antenna
<b>Wi-Fi Data Rates</b>	IEEE 802.11ac: 6.5 Mbps to 867 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps; 400 Mbps with 256-QAM on 2.4GHz IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps  <i>*Actual throughput may vary depending on many factors including environmental conditions, distance between devices, radio interference in the operating environment and mix of devices in the network</i>
<b>Frequency Bands</b>	2.4GHz radio : 2.400 - 2.4835 GHz 5GHz radio: 5.150 - 5.250 GHz, 5.725 - 5.850 GHz  <i>*Not all frequency bands can be used in all regions. The band 5150-5350 MHz is restricted to indoor use only in all EU states.</i>
<b>Channel Bandwidth</b>	2.4G: 20 and 40 MHz 5G: 20,40 and 80 MHz
<b>Wi-Fi and System Security</b>	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
<b>MIMO</b>	2x2:2 2.4GHz (MIMO), 2x2:2 5GHz (MU-MIMO)
<b>Coverage Range</b>	Up to 984 ft. (300 meters)  <i>*Coverage range can vary based on environment</i>
<b>Maximum TX Power</b>	2.4G: 26dBm (FCC) / 16dBm (CE) 5G: 26dBm (FCC) /18dBm (CE)  <i>*Maximum power varies by country, frequency band, and MCS rate</i>
<b>Receiver Sensitivity</b>	<b>2.4G</b> 802.11b:-100dBm @1Mbps,-93dBm@11Mbps;802.11g:-95dBm @6Mbps,-76dBm@54Mbps; 802.11n 20MHz:-72dBm @MCS7;802.11n 40MHz:-70dBm @MCS7 <b>5G</b> 802.11a:-93dBm @6Mbps,-76dBm @54Mbps;802.11ac 20MHz:-68dBm @MCS8;802.11acHT40:- 65dBm @MCS9;802.11ac 80MHz:-60dBm @MCS9
<b>SSIDs</b>	32 SSIDs total, 16 per radio (2.4ghz and 5 ghz)
<b>Concurrent Clients</b>	450+
<b>Network Interfaces</b>	2x autosensing 10/100/1000 Base-T Ethernet Ports
<b>Auxiliary Ports</b>	1x Reset Pinhole
<b>Mounting</b>	Outdoor base bracket and cover bracket included
<b>LEDs</b>	1 tri-color LEDs for device tracking and status indication
<b>Network Protocols</b>	IPv4, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
<b>QoS</b>	802.11e/WMM, VLAN, TOS
<b>Network Management</b>	Embedded controller can manage up to 30 local GWN APs GWN.Cloud offers a free cloud management platform for unlimited GWN APs GWN Manager offers premise-based software controller for up to 3,000 GWN APs
<b>Power and Green Energy Efficiency</b>	Power over Ethernet 802.3af and 802.3at compliant Maximum Power Consumption: 12.9 W (PoE supply); 23.0 W (PoE+ supply)
<b>Environmental</b>	Operation: -30°C to 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing
<b>Physical</b>	Unit Dimension: 290×150×35mm; Unit Weight: 708g Unit + Mounting Kits Dimension : 290×150×56mm; Unit + Mounting Kits Weight: 1528.2g Entire Package Dimension: 423×187×97mm; Entire Package Weight: 1844g
<b>Package Content</b>	Outdoor Long Range 802.11ac Wave-2 Wi-Fi AP, Mounting Kits, Quick Start Guide
<b>Waterproof Grade</b>	IP66-level weatherproof capability when installed vertically
<b>Compliance</b>	FCC, CE, RCM, IC