



# Outdoor Long Range 802.11ac Wave-2 WiFi Access Point

## GWN7600LR

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 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 WiFi 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 allows GWN7600LR to auto-discover, auto-provision and manage up to 30 GWN7600LRs in a network

<b>WiFi 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>WiFi 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
<b>Channel Bandwidth</b>	2.4G: 20 and 40 MHz 5G: 20,40 and 80 MHz
<b>WiFi 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>	16 SSIDs per radio
<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 in GWN7600LR allows it to auto-discover, auto-provision and manage up to 30 GWN7600s in a network
<b>Power and Green Energy Efficiency</b>	Power over Ethernet (802.3af) 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 WiFi AP, Mounting Kits, Quick Start Guide
<b>Waterproof Grade</b>	IP66-level weatherproof capability when installed vertically
<b>Compliance</b>	FCC, CE, RCM, IC