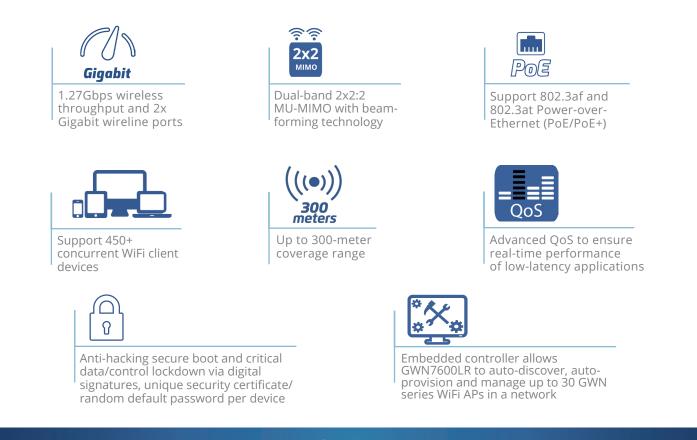# Outdoor Long Range 802.11ac Wave-2 WiFi Access Point
GWN7600LR

This long range WiFi access point is designed to provide extended coverage support and is 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

2x2 MIMO
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

300 meters
Up to 300-meter coverage range

QoS
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 GWN series WiFi APs in a network

WiFi Standards	IEEE 802.11 a/b/g/n/ac (Wave-2)
Antennas	2x2.4 GHz, gain 4 dBi, internal antenna 2x5 GHz, gain 5 dBi, internal antenna
WiFi Data Rates	I EEE 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 *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*
Frequency Bands	2.4GHz radio : 2.400 - 2.4835 GHz 5GHz radio: 5.150 - 5.250 GHz, 5.725 - 5.850 GHz *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.*
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20,40 and 80 MHz
WiFi and System Security	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
MIMO	2x2:2 2.4GHz (MIMO), 2x2:2 5GHz (MU-MIMO)
Coverage Range	Up to 984 ft. (300 meters) *Coverage range can vary based on environment*
Maximum TX Power	2.4G: 26dBm (FCC) / 16dBm (CE) 5G: 26dBm (FCC) /18dBm (CE) *Maximum power varies by country, frequency band, and MCS rate*
Receiver Sensitivity	**2.4G** 802.11b:-100dBm @1Mbps,-93dBm@11Mbps;802.11g:-95dBm @6Mbps,-76dBm@54Mbps;802.11n 20MHz:-72dBm @MCS7;802.11n 40MHz:-70dBm @MCS7 **5G** 802.11a:-93dBm @6Mbps,-76dBm @54Mbps;802.11ac 20MHz:-68dBm @MCS8;802.11acHT40:-65dBm @MCS9;802.11ac 80MHz:-60dBm @MCS9
SSIDs	16 SSIDs per radio
Concurrent Clients	450+
Network Interfaces	2x autosensing 10/100/1000 Base-T Ethernet Ports
Auxiliary Ports	1x Reset Pinhole
Mounting	Outdoor base bracket and cover bracket included
LEDs	1 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	Embedded controller in GWN7600LR allows it to auto-discover, auto-provision and manage up to 30 GWN series WiFi APs in a network
Power and Green Energy Efficiency	Power over Ethernet 802.3af and 802.3at compliant Maximum Power Consumption: 12.9 W (PoE supply); 23.0 W (PoE+ supply)
Environmental	Operation: -30°C to 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing
Physical	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
Package Content	Outdoor Long Range 802.11ac Wave-2 WiFi AP, Mounting Kits, Quick Start Guide
Waterproof Grade	IP66-level weatherproof capability when installed vertically
Compliance	FCC, CE, RCM, IC