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.

- **1.27Gbps wireless throughput and 2x Gigabit wireline ports**
- **Dual-band 2x2:2 MU-MIMO with beam-forming technology**
- **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**

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<th><strong>Wi-Fi Standards</strong></th>
<th>IEEE 802.11 a/b/g/n/ac (Wave-2)</th>
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| **Antennas**        | 2x2.4 GHz, gain 4 dBi, internal antenna  
                      2x5 GHz, gain 5 dBi, internal antenna |
| **Wi-Fi Data Rates**| 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 |
| **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 |
| **Wi-Fi 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: 2.4GHz (MIMO), 2x2: 5GHz (MU-MIMO) |
| **Coverage Range** | Up to 984 ft. (300 meters) |
| **Maximum TX Power** | 2.4G: 26dBm (FCC) / 16dBm (CE)  
                           5G: 26dBm (FCC) /18dBm (CE) |
| **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** | 32 SSIDs total, 16 per radio (2.4ghz and 5 ghz) |
| **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 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 |
| **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 Wi-Fi AP, Mounting Kits, Quick Start Guide |
| **Waterproof Grade** | IP66-level weatherproof capability when installed vertically |
| **Compliance** | FCC, CE, RCM, IC |

*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*