



High-Performance Outdoor Long-Range Wi-Fi 6 Access Point

GWN7664LR

The GWN7664LR is an outdoor 802.11ax 4x4:4 Wi-Fi 6 access point for medium-to-large businesses and enterprises who need to provide long-range coverage in both indoor and outdoor spaces. It offers weatherproof casing and heat resistant technology, dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network throughput that supports 750 clients and an expanded 300-meter coverage range. To ensure easy installation and management, the GWN7664LR includes a built-in controller embedded within the product's web user interface. It is also supported by GWN.Cloud and GWN Manager, Grandstream's free cloud and on-premise Wi-Fi management platform. The GWN7664LR is the ideal Wi-Fi AP for voice-over-Wi-Fi deployment and offers a seamless connection with Grandstream's Wi-Fi capable voice and video IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals and dual Gigabit networks ports with PoE/PoE+, the GWN7664LR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools and more.



3.55Gbps aggregate wireless throughput, 3.5Gbps aggregate wired throughput



Supports 750+ concurrent Wi-Fi client devices



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



Dual-band 4x4:4 MU-MIMO with DL/UL OFDMA technology



Up to 300-meter coverage range



Flexibility of 4 detachable/changeable antennas for different application scenarios



Self power adaptation upon auto detection of PoE/PoE+



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



Embedded controller manages up to 50 local GWN APs; GWN.Cloud offers unlimited AP management, & GWN Manager offers on-premise software AP management

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| Wi-Fi Standards | IEEE 802.11 b/g/n/ac/ax |
| Antennas | 4 dual band external antennas 2.4GHz, gain 3.5dBi 5 GHz, gain 3.5dBi |
| Wi-Fi Data Rates | 5G: IEEE 802.11ax: 8 Mbps to 2402 Mbps IEEE 802.11ac: 6.5 Mbps to 1733 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 2.4G: IEEE 802.11ax: 8 Mbps to 1147 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps 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> |
| Frequency Bands | 2.4GHz radio: 2412 - 2484 MHz 5GHz radio: 5180 - 5825 MHz <i>*Not all frequency bands can be used in all regions.</i> |
| Channel Bandwidth | 2.4G: 20 and 40 MHz (x4) 5G: 20, 40 and 80 MHz (x4) |
| System Security | WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device |
| MU-MIMO | 4x4:4 2.4GHz, 4x4:4 5GHz |
| Coverage Range | Up to 300 meters <i>*Coverage range can vary based on environment</i> |
| Maximum TX Power | 5G: 25dBm 2.4G: 26dBm <i>*Maximum power varies by country, frequency band, and MCS rate</i> |
| Receiver Sensitivity | 2.4G 802.11b: -99dBm@1Mbps, -91dBm@11Mbps; 802.11g: -94dBm @6Mbps, -78dBm@54Mbps; 802.11n 20MHz: -75dBm @MCS7; 802.11n 40MHz:-71dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 5G 802.11a: -95dBm @6Mbps, -77dBm @54Mbps; 802.11n: 20MHz: -74dBm @MCS7; 802.11 n 40MHz: -71dBm @MCS7 802.11ac 20MHz: -70dBm@MCS8; 802.11ac: HT40:- 66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -62dBm @MCS11;802.11ax 80MHz: -59dBm @MCS11 |
| SSIDs | 32 SSIDs total, 16 per radio (2.4GHz & 5GHz) |
| Concurrent Clients | 750+ |
| Network Interfaces | 1x 1G Port and 1x 2.5G Port, support 2.5Gbps aggregate wired throughout |
| Auxiliary Ports | 1x Reset Pinhole |
| Mounting | Wall mount or pole mount, kits included |
| LEDs | 1 tri-color LEDs for device tracking and status indication |
| Network Protocols | IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM |
| QoS | 802.11e/WMM, VLAN, TOS |
| Network Management | Embedded controller can manage up to 50 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 | PoE 802.3af/ 802.3at; Maximum Power Consumption: 18W |
| Environmental | Operation:-30°Cto 60°C Storage: -30°C to 60°C Humidity: 10% to 90% Non-condensing |
| Physical | Unit Dimension: 562.3mm(L)x140mm(W)x44.9mm(H); Unit + Mounting Kits Dimension: 562.3mm(L)x140mm(W)x66.9mm(H); Entire Package Dimension: 260mm(L)x218.5mm(W)x108mm(H); |
| Package Content | GWN7664LR 802.11ax Wireless AP, Mounting Kits, Quick Installation Guide |
| Weatherproof Grade | IP66-level weatherproof capability when installed vertically |
| Compliance | FCC, CE, RCM, IC, UKCA |