



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



Support 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

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