Wi-Fi 6 CERTIFIED

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

GWN7664LR

The GWN7664LR is an outdoor 802.11ax 4×4:4 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 4×4:4 MU-MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network through 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.

Gigabit

3.55Gbps aggregate wireless throughput, 3.5Gbps aggregate wired throughout

4x4 MIMO

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

PoE

Self power adaptation upon auto detection of PoE/PoE+

Supports 750+ concurrent Wi-Fi 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

Flexibility of 4 detachable/ changeable antennas for different application scenarios

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 *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: 2412 - 2484 MHz 5GHz radio: 5180 - 5825 MHz *Not all frequency bands can be used in all regions.*
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	4×4:4 2.4GHz, 4×4:4 5GHz
Coverage Range	Up to 300 meters *Coverage range can vary based on environment*
Maximum TX Power	5G: 25dBm 2.4G: 26dBm *Maximum power varies by country, frequency band, and MCS rate*
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

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