GRANDSTREAM
CONNECTING THE WORLD



Wi Fi 6 CERTIFIED

High-Performance Outdoor AX6000 Wi-Fi 6 Access Point

GWN7664ELR

The GWN7664ELR is a high-performance outdoor long-range 802.11ax Wi-Fi6 access point for medium-to-large businesses and enterprises who need to provide long-range coverage in outdoor spaces. It offers IP68-level weatherproof capability, dual-band 4×4:4 MU-MIMO with OFDMA technology and a sophisticated antenna design for up to 6 Gbps wireless throughput that supports 512 clients and an expanded 300-meter coverage range. To ensure easy installation and management, the GWN7664ELR 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 GWN7664ELR 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. This device features support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, 2.5 Gigabit Ethernet port with PoE+, and a 2.5 Gigabit SFP port. TheGWN7664ELR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools and more.

Gigabit

6Gbps aggregate wireless throughput, 2.5Gbps RJ45 and 2.5Gbps SFP wireline ports

4x4 MIMO

Dual-band 4×4:4 MU- MIMO with OFDMA technology

PoE+

2.5 Gigabit Ethernet Port supports self power adaptation upon auto detection of PoE+

Supports 512 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 8 internal antennas

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

www.grandstream.com

INFRONT TECHNOLOGIES

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Wi-Fi Standards	IEEE 802.11 b/g/n/ac/ax
Antennas	8 individual internal antennas 2.4GHz, gain 5.5dBi 5GHz, gain 6.5dBi
Wi-Fi Data Rates	**5G:** IEEE 802.11ax: 7.3 Mbps to 4804 Mbps IEEE 802.11ac: 6.5 Mbps to 3467 Mbps IEEE 802.11n: 6.5Mbps to 600 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps **2.4G:** IEEE 802.11ax: 7.3 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: 2400 - 2483.5 MHz 5GHz radio: 5150-5850 MHz **Not all frequency bands can be used in all regions.*
Channel Bandwidth	2.4G: 20 and 40 MHz (x4) 5G: 20, 40,80 and 160 MHz (x4)
System Security	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: 23.5dBm 2.4G: 24.5dBm **Maximum power varies by country, frequency band, and MCS rate*
Receiver Sensitivity	**2.4G** 802.11b: -97dBm@1Mbps, -89dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 **5G** 802.11a: -93dBm @6Mbps, -75dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7 802.11ac 20MHz: -70dBm@MCS8; 802.11ac: HT40:- 66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -61dBm @MCS11;802.11ax 80MHz: -58dBm @MCS11; 802.11ax 160MHz:-55dBm@MCS11;
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	512
Network Interfaces	1x 2.5G RJ45 Port and 1x 2.5G SFP Port
Auxiliary Ports	1x Reset Button
Mounting	Wall mount or pole mount, kits included (The mounting kits can be rotated and adjusted by 60°)
LEDs	1 tri-color LEDs for device tracking and status indication, 1 single-color LED for SFP 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 802.3at; Maximum Power Consumption: 24W
Environmental	Operation:-30°Cto 60°C Storage: -30°C to 60°C Humidity: 10% to 90% Non-condensing
Physical	Unit Dimension: 260mm(L)x310mm(W)x59mm(H); Unit Weight: 1.445kg Entire Package Dimension: 469mm x 377mm x 137mm; Entire Package Weight: 3.06kg
Package Content	GWN7664ELR 802.11ax Wireless AP, Mounting Kits, Quick Installation Guide
Weatherproof Grade	IP68-level weatherproof capability
Compliance	FCC, CE, RCM, IC

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