



## 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 4x4:4 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. The GWN7664ELR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools and more.



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



Supports 512 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 OFDMA technology



Up to 300-meter coverage range



Flexibility of 8 internal antennas



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

<b>Wi-Fi Standards</b>	IEEE 802.11 b/g/n/ac/ax
<b>Antennas</b>	8 individual internal antennas 2.4GHz, gain 5.5dBi 5GHz, gain 6.5dBi
<b>5G:</b>	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
<b>Wi-Fi Data Rates</b>	<b>2.4G:</b> 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
	<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>
<b>Frequency Bands</b>	2.4GHz radio: 2400 - 2483.5 MHz 5GHz radio: 5150-5850 MHz <i>*Not all frequency bands can be used in all regions.</i>
<b>Channel Bandwidth</b>	2.4G: 20 and 40 MHz (x4) 5G: 20, 40,80 and 160 MHz (x4)
<b>System Security</b>	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
<b>MU-MIMO</b>	4x4:4 2.4GHz, 4x4:4 5GHz
<b>Coverage Range</b>	Up to 300 meters <i>*Coverage range can vary based on environment</i>
<b>Maximum TX Power</b>	5G: 23.5dBm 2.4G: 24.5dBm <i>*Maximum power varies by country, frequency band, and MCS rate</i>
<b>2.4G</b>	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
<b>Receiver Sensitivity</b>	<b>5G</b> 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;
<b>SSIDs</b>	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
<b>Concurrent Clients</b>	512
<b>Network Interfaces</b>	1x 2.5G RJ45 Port and 1x 2.5G SFP Port
<b>Auxiliary Ports</b>	1x Reset Button
<b>Mounting</b>	Wall mount or pole mount, kits included (The mounting kits can be rotated and adjusted by 60°)
<b>LEDs</b>	1 tri-color LEDs for device tracking and status indication, 1 single-color LED for SFP indication
<b>Network Protocols</b>	IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
<b>QoS</b>	802.11e/WMM, VLAN, TOS
<b>Network Management</b>	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
<b>Power and Green Energy Efficiency</b>	PoE 802.3at; Maximum Power Consumption: 24W
<b>Environmental</b>	Operation:-30°C to 60°C Storage: -30°C to 60°C Humidity: 10% to 90% Non-condensing
<b>Physical</b>	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
<b>Package Content</b>	GWN7664ELR 802.11ax Wireless AP, Mounting Kits, Quick Installation Guide
<b>Weatherproof Grade</b>	IP68-level weatherproof capability
<b>Compliance</b>	FCC, CE, RCM, IC