



## Outdoor AX3000 Wi-Fi 6 Access Point

### GWN7660ELR

The GWN7660ELR is an enterprise-grade long range Wi-Fi 6 access point that allows businesses to build next-generation Wi-Fi networks for high-density environments. It supports weatherproof casing and heat resistant technology, dual-band 2x2:2 MIMO with OFDMA technology and a sophisticated antenna design for maximum network throughput that supports 256 clients and an expanded 300-meter coverage range. It also provides IP68 weatherproof and dust-proof ability, as well as -30 to 60°C operating temperature, this ensures that the Wi-Fi 6 access point can operate properly in difficult weather conditions. To ensure easy installation and management, the GWN7660ELR 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 GWN7660ELR is the ideal Wi-Fi AP for voice-over-Wi-Fi deployment and offers a seamless connection with Grandstream's Wi-Fi voice and video IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, Bluetooth® Low Energy (BLE) 5.2, a gigabit Ethernet port with PoE/PoE+ and a 2.5 Gigabit SFP port. The GWN7660ELR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, hospitals, schools, and more.



3 Gbps aggregate wireless throughput, 1 Gbps RJ45 and 2.5 Gbps SFP wireline ports



Dual-band 2x2:2 MIMO with OFDMA technology



Self power adaptation upon auto detection of PoE/PoE+



Supports 256 concurrent Wi-Fi client devices



Up to 300-meter coverage range



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 5 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

<b>Wi-Fi Standards</b>	IEEE 802.11 b/g/n/ac/ax
<b>Antennas</b>	5 individual internal antennas 2.4GHz x 2 , gain 5.5 dBi 5 GHz x 2, gain 6.0 dBi BT gain 4.5 dBi
<b>Wi-Fi Data Rates</b>	<b>5G:</b> IEEE 802.11ax: 7.3 Mbps to 2403 Mbps IEEE 802.11ac: 6.5 Mbps to 1734 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps  <b>2.4G:</b> IEEE 802.11ax: 7.3 Mbps to 573.5 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps 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: 2400-2483.5MHz 5GHz: 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 5G: 20, 40, 80 and 160 MHz
<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>MIMO</b>	2x2:2 2.4GHz, 2x2:2 5GHz
<b>Coverage Range</b>	Up to 300 meters <i>*Coverage range can vary based on environment</i>
<b>Maximum TX Power</b>	5G: 26dBm 2.4G: 27dBm <i>*Maximum power varies by country, frequency band, and MCS rate</i>
<b>Receiver Sensitivity</b>	<b>2.4G</b> 802.11b: -96dBm @1Mbps, -88dBm @11Mbps; 802.11g: -93dBm @6Mbps, -75dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11  <b>5G</b> 802.11a: -90dBm @6Mbps, -72dBm @54Mbps; 802.11n: 20MHz: -71dBm @MCS7; 802.11n 40MHz: -68dBm @MCS7 802.11ac 20MHz: -65dBm @MCS8; 802.11ac: 40MHz: -61dBm @MCS9; 802.11ac 80MHz: -57dBm @MCS9; 802.11ac 160MHz: -55dBm @MCS9; 802.11ax 20MHz: -58dBm @MCS11; 802.11ax 40MHz: -56dBm @MCS11; 802.11ax 80MHz: -54dBm @MCS11; 802.11ax 160MHz: -51dBm @MCS11;
<b>SSIDs</b>	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
<b>Concurrent Clients</b>	256
<b>Network Interfaces</b>	1x 1G RJ45 Port and 1x 2.5G SFP Port
<b>Bluetooth®</b>	BLE 5.2
<b>Auxiliary Ports</b>	1x Reset Button
<b>Mounting</b>	Wall mount or pole mount, kits included (The mounting kits can be adjusted and rotated by 60°)
<b>LEDs</b>	1 tri-color LED for device tracking and status indication; 1 single-color LED for SFP
<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 802.3af/ 802.3at; Maximum Power Consumption: 13W
<b>Environmental</b>	Operation: -30°C to 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing
<b>Physical</b>	Unit Dimension: 270mm x 230mm x 57mm Unit (including brackets): 1kg Entire Package Dimension: 439mm x 329mm x 137mm Entire Package Weight: 2.4kg
<b>Package Content</b>	GWN7660ELR AP, Mounting Kits, Quick Installation Guide
<b>Weatherproof Grade</b>	IP68-level weatherproof capability
<b>Compliance</b>	FCC, CE, RCM, IC