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 2×2:2 MU-MIMO with XTRA Range technology and a sophisticated antenna design for maximum network throughput that supports 256 clients and an expanded 300-meter coverage range. It also provides IP67 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.

Gigabit 3 Gbps aggregate wireless throughput, 1 Gbps and 2.5 Gbps SFP wireline ports	**2x2 MIMO** Dual-band 2x2:2 MU- MIMO with XTRA Range technology	**PoE** Self power adaptation upon auto detection of PoE/PoE+
Supports 256 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 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

Wi-Fi Standards	IEEE 802.11 b/g/n/ac/ax
Antennas	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
Wi-Fi Data Rates	**5G:** 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 **2.4G:** 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 **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 5G: 20, 40, 80 and 160 MHz
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	2×2:2 2.4GHz, 2×2:2 5GHz
Coverage Range	Up to 300 meters **Coverage range can vary based on environment*
Maximum TX Power	5G: 26dBm 2.4G: 27dBm **Maximum power varies by country, frequency band, and MCS rate*
Receiver Sensitivity	**2.4G** 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 **5G** 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;
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	256
Network Interfaces	1x 1G Port and 1x 2.5G SFP Port
Bluetooth®	BLE 5.2
Auxiliary Ports	1x Reset Button
Mounting	Wall mount or pole mount, kits included
LEDs	1 tri-color LED for device tracking and status indication; 1 single-color LED for SFP
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: 13W
Environmental	Operation:-30°Cto 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing
Physical	Unit Dimension: 270mm x 230mm x 57mm Unit (including brackets): 1kg Entire Package Dimension: 439mm x 329mm x 137mm Entire Package Weight: 2.4kg
Package Content	GWN7660ELR AP, Mounting Kits, Quick Installation Guide
Weatherproof Grade	IP67-level weatherproof capability when installed vertically
Compliance	FCC, CE, RCM, IC

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