Outdoor Long-Range Wi-Fi 6 Access Point

GWN7660LR

The GWN7660LR is a long-range 802.11ax Wi-Fi 6 access point designed to provide next generation network coverage for indoor and outdoor environments. It offers IP66 weatherproof certified casing, dual-band 2x2:2 MU-MIMO technology and a sophisticated antenna design for extended coverage range of up to 250 meters. The GWN7660LR is supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform that and makes managing your network or several networks across multiple locations easier than ever before. It also uses a controller-less network management architecture in which the controller is embedded within the product's web user interface for easy administration of locally deployed Wi-Fi APs. The GWN7660LR 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 GWN7660LR is an ideal outdoor Wi-Fi access point for enterprises, multiple floor offices, warehouses, parks, hospitals, schools and more.

1.77Gbps aggregate wireless throughput and2x Gigabit Ethernet ports

Dual-band 2×2:2 MU- MIMO with DL/UL OFDMA technology

Self power adaptation upon auto detection of PoE or PoE+

Support 256+ concurrent Wi-Fi client devices

Up to 250-meter coverage range

Advanced QoS to ensure real-time performance of low-latency applications

Anti-hacking secure boot and critical data/control lockdown

Flexibilty of 2 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 a/b/g/n/ac/ax
Antennas	2 dual band external antennas 2.4GHz, gain 3.5dBi 5 GHz, gain 3.5dBi
Wi-Fi Data Rates	**5G:** IEEE 802.11ax: 7.3 Mbps to 1201 Mbps IEEE 802.11ac: 6.5 Mbps to 867 Mbps IEEE 802.11n: 6.5Mbps to 300Mbps 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: 6.5Mbps to 300Mbps 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 and 80 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 250 meters *Coverage range can vary based on environment*
Maximum TX Power	5G: 26dBm 2.4G: 30dBm *Maximum power varies by country, frequency band, and MCS rate*
Receiver Sensitivity	**2.4G** 802.11b: -99dBm@1Mbps, -90dBm@11Mbps; 802.11g: -93dBm @6Mbps, -77dBm@54Mbps; 802.11n 20MHz: -74dBm @MCS7; 802.11n 40MHz:-72dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -62dBm @MCS11 **5G** 802.11a: -95dBm @6Mbps, -77dBm @54Mbps; 802.11ac 20MHz: -71dBm@MCS8; 802.11ac: HT40:- 67dBm @MCS9; 802.11ac 80MHz: -64dBm @ MCS9; 802.11ax 20MHz: -63dBm @ MCS11; 802.11ax 40MHz: -62dBm @MCS11;802.11ax 80MHz: -58dBm @MCS11
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	256+
Network Interfaces	2× autosensing 10/100/1000 Base-T Ethernet Ports
Auxiliary Ports	1× Reset Pinhole
Mounting	Outdoor wall 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: 12.9W
Environmental	Operation:-30°Cto 60°C Storage: -30°C to 70°C Humidity: 5% to 95% Non-condensing
Physical	Unit Dimension: 358.3mm(L)x115mm(W)x45.3mm(H); Unit Weight: 695g Entire Package Dimension: 275x185.5x89mm; Entire Package Weight: 995g
Package Content	GWN7660LR 802.11ax Wireless AP, Mounting Kits, Quick Installation Guide
Weatherproof Grade	IP66-level weatherproof capability when installed vertically
Compliance	FCC, CE, RCM, IC

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