



Long-Range Dual-band Wi-Fi 7 Access Point/Bridge

GWN7670LR

The GWN7670LR is a new generation long-range Wi-Fi 7 access point, ideal for medium-to-large businesses that need to provide long-range coverage. It offers IP66-level weatherproof capability, dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. It supports flexible switching between internal directional antennas and external omnidirectional antennas. It can be combined with directional antenna and PTP, PTMP technology to serve as a professional long-range wireless bridge. With 4096 QAM modulation, Wi-Fi 7 achieves a significant increase in data transfer rates. MLO technology optimizes spectrum resource utilization to ensure a smooth experience for every user. To ensure easy installation and management, the GWN7670LR uses a controller-less distributed network management design in which the controller is embedded within the product's Web User Interface. The GWN7670LR is also supported by GDMS Networking and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform. It is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, BT location with BLE 5.3, 256 concurrent clients per AP, 1x2.5 Gigabit network port with PoE+ and 1x 2.5 Gigabit SFP port. GWN7670LR is an ideal long-range Wi-Fi access point for enterprises, multiple floor offices, warehouses, parks, hospitals, schools and more.



3.6Gbps aggregate wireless throughput, 2.5Gigabit Ethernet Port and 2.5Gigabit SFP Port



Integrated Wi-Fi 7 and Dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology

Up to 350-meter bridge distance and 1.5km bridge distance in PTP mode



Support 256 concurrent Wi-Fi client devices



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



Self power adaptation upon auto detection of PoE+



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

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax/be
Antennas	2.4G: Directional internal 8dBi/External omni 3.5dBi 5G: Directional internal 13.5dBi/External omni 3.5dBi BT: 5.0dBi Antenna beamwidth 2.4G: 90 degree 5G: 35 degree
Wi-Fi Data Rates	5G: IEEE 802.11be: Up to 2882 Mbps IEEE 802.11ax: 7.3 Mbps to 2402 Mbps IEEE 802.11ac: 6.5 Mbps to 1732 Mbps IEEE 802.11n: 6.5 Mbps to 600 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 2.4G: IEEE 802.11be: Up to 688 Mbps IEEE 802.11ax: 7.3 Mbps to 574 Mbps IEEE 802.11n: 6.5Mbps 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>
Frequency Bands	2.4GHz Radio: 2400 - 2483.5 MHz 5GHz Radio: 5150 - 5895 MHz <i>*Not all frequency bands can be used in all regions</i>
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80, and 160 MHz
Wi-Fi and 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
MIMO	2x2:2 2.4GHz 2x2:2 5GHz
Coverage Range	350 meters 1.5 kilometers PTP mode <i>*coverage range can vary based on environment</i>
Maximum TX Power	5G: 18dBm 2.4G: 23dBm <i>*Maximum power varies by country, frequency band and MCS rate</i>
Receiver Sensitivity	5G 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7; 802.11ac 20MHz: -67dBm@MCS8; 802.11ac: 40MHz: -63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9; 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11; 802.11ax 80MHz: -56dBm @MCS11 MCS11; 802.11ax 160MHz: -52dBm@ MCS11 802.11be 20MHz: -59dBm @MCS13; 802.11be 40MHz: -56dBm @MCS13; 802.11be 80MHz: -54dBm @MCS13; 802.11be 160MHz: -52dBm @MCS13 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 802.11be 20MHz: -65dBm @MCS11; 802.11be 40MHz: -62dBm @MCS11;
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	256
Network Interfaces	1x 2.5G Ethernet WAN/LAN and 1x 2.5G SFP Port
Auxiliary Ports	1x Reset Pinhole
Bluetooth®	BLE 5.3
Mounting	Wall mount or pole mount, kits included
LEDs	1 tri-color LED for device tracking and status indication 4 blue LED for signal strength 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 GDMS Networking 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/PoE+ 802.3af/at; Maximum Power Consumption: 14.5W
Environmental	Operation: 30°C to 60°C Storage: -30°C to 60°C Humidity: 10% to 90% Non-condensing
Physical	Unit Dimension: 223.2mm x 169.9mm x 53.9mm Unit Weight: 1.2Kg Entire Package Dimension: 376mm x 321mm x 138mm Entire Package Weight: 2.7Kg
Package Content	GWN7670LR Wi-Fi 7 Wireless AP, Mounting Kits, Quick Start Guide
Compliance	FCC, CE, RCM, IC