

# GWN7605CLR

## Outdoor Wi-Fi Access Point with Phoenix Connector

The GWN7605CLR is an outdoor Wi-Fi access point with a Phoenix Connector that provides stable electrical connection, supports quick disassembly and installation, and is convenient for maintenance. The GWN7605CLR comes equipped with dual-band 2x2:2 MU-MIMO technology and a sophisticated antenna design for extended coverage range of up to 150 meters. It offers IP66-level weatherproof capabilities to ensure equipment stability. It uses a controllerless distributed 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 GWN7605CLR is also supported by GDMS Networking and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform. Powered by market-leading technology for advanced QoS, fast roaming, mesh networks, captive portals, support for 100+ concurrent clients and 2x1 Gigabit Ethernet ports with PoE+, the GWN7605CLR is an ideal Wi-Fi access point for low-latency jitter-sensitive real-time applications (such as voice/video-over-Wi-Fi devices & applications) in low-to-medium user density scenarios.



1.27Gbps aggregate wireless throughput and 2xGigabit wireline ports



Dual-band 2x2:2 MUMIMO with beam-forming technology



Self power adaptation upon auto detection of PoE or PoE+, and connect the DC power supply through the Phoenix Connector



Supports 100+ concurrent Wi-Fi client devices



Up to 150-meter coverage range



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



Anti-hacking secure boot and critical data/control lockdown



Flexibility of 2 internal antennas for different application scenarios



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

# Software

WLAN	<b>Wi-Fi Standards</b>	IEEE 802.11 a/b/g/n/ac (Wave-2)
	<b>SSIDs</b>	16 SSIDs total, 8 per radio (2.4GHz & 5GHz)
	<b>Concurrent Clients</b>	100+
	<b>Basics</b>	Beamforming OFDM 256-QAM Target wake time (TWT) Maximal Ratio Combining (MRC) Space-Time Block Coding (STBC) Low-density Parity-Check (LDPC) 802.11 Dynamic Frequency Selection (DFS) BSS coloring
	<b>SSID Hidden</b>	Restrict access and improve wireless network security by SSID hiding
	<b>Port Aggregation</b>	Multiple uplink ports for port aggregation to increase uplink bandwidth
	<b>Multicast/Broadcast Suppression</b>	Multicast/Broadcast enable optimization with ARP proxy
	<b>Multicast Enhancement</b>	Convert multicast data into unicast data for transmission
	<b>Bandwidth Limiting</b>	Support SSID/Client/MAC/IP-based rate limiting
	<b>Band Steering/Client Steering</b>	Guide client to the frequency band with more abundant spectrum resources
	<b>RRM</b>	Dynamically assign radio power, channel
	<b>VPN</b>	L2TPv3
	<b>VLAN</b>	Support interface/SSID/MAC binding VLAN based Management VLAN Dynamic VLAN
	<b>Time Policy</b>	Track the time that the client connects to Wi-Fi, Support setting the amount of time for the client to connect to Wi-Fi and the reconnect type after a timeout
	<b>Schedule</b>	Support SSID, LED, Reboot schedule
WLAN Extension	<b>Bridge</b>	Support
	<b>Mesh</b>	2.4GHz, 5GHz, 2.4GHz&5GHz
	<b>Hotspot2.0</b>	Support
	<b>Wireless Roaming</b>	802.11k, 802.11v, 802.11r Layer 2 roaming
Network	<b>IPv4</b>	Static or DHCP
	<b>IPv6</b>	Static or DHCP
	<b>DHCP</b>	Support server/client/relay
	<b>NAT</b>	NAT Pool
	<b>LLDP</b>	Link Layer Discovery Protocol, discovering and identifying other LLDP enabled devices and neighboring devices in the network
User Authentication	<b>802.1x authentication</b>	Support
	<b>MAC authentication</b>	Use client MAC address as the username and password for access control through the RADIUS server
	<b>PPSK</b>	PPSK with/without RADIUS
	<b>Captive Portal</b>	Support radius/social login/vouchers/password/SAML SSO/active directory authentication
Security	<b>Encryption</b>	Open system OSEN WPA2-PSK (personal) WPA2-802.1x (enterprise) WPA3-SAE (personal) WPA3-802.1x (enterprise) WPA/WPA2, WPA2/WPA3 anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
	<b>Forwarding Security</b>	MAC filtering Client isolation OS filtering
	<b>WIDS</b>	Inbound/outbound traffic rules Rogue AP detection and containment ARP attack defense ND attack defense
Service Quality	<b>QoS</b>	802.11e/WMM, 802.1p, 802.1q, TOS
Management Platform	<b>Local Web</b>	Embedded controller can manage up to 50 local GWN APs
	<b>GDMS Networking</b>	A free cloud management platform for unlimited GWN APs
	<b>GWN Manager</b>	premise-based software controller for up to 3,000 GWN APs
	<b>GWN APP</b>	Integrate GDMS Networking and GWN Manager to manage GWN APs via the APP
	<b>Management Protocol</b>	TR-069 SNMP

## Hardware

<b>Radio</b>	<b>Antenna</b>	2 dual band internal antennas 2.4GHz, gain 4.0dBi 5GHz, gain 4.0dBi
	<b>MIMO</b>	2.4GHz: 2x2:2, MIMO 5GHz: 2x2:2, MU-MIMO
	<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 40MHz 5G: 20, 40 and 80MHz
	<b>Wi-Fi Data Rates</b>	IEEE 802.11ac: 6.5 Mbps to 867 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n: 6.5 Mbps to 300Mbps; 400 Mbps with 256-QAM on 2.4G 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>Maximum TX Power</b>	2.4G: 24dBm 5G: 22dBm <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; <b>5G</b> 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11ac 20MHz: -67dBm @MCS8; 802.11ac 40MHz: -63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9;
	<b>Coverage Range</b>	Up to 150 meters <i>*Coverage range can vary based on environment</i>
<b>Interfaces</b>	<b>Network Ports</b>	1x autosensing 10/100/1000 Base-T Ethernet Port, RJ-45, PoE input 1x autosensing 10/100/1000 Base-T Ethernet Port, RJ-45
	<b>LEDs</b>	1 tri-color LED for device tracking and status indication
	<b>Auxiliary Ports</b>	1x Reset Pinhole
<b>Power</b>	<b>PoE Input</b>	802.3af/at
	<b>DC</b>	PHOENIX CONNECTOR(12V-24V)
	<b>Maximum Power Consumption</b>	10W
<b>Physical</b>	<b>Dimensions</b>	Unit: 180 x 107 x 45 mm Entire Package: 219 x 185.5 x 66 mm
	<b>Weight</b>	Unit: 368g Entire Package: 695g
	<b>Mounting</b>	Outdoor metal bar mount or wall mount, kits included
	<b>Package Content</b>	GWN7605CLR Outdoor Wi-Fi Wireless AP, Mounting Kits, Quick Start Guide
<b>Environmental</b>	<b>Temperature</b>	Operation: -30°C to 60°C Storage: -30°C to 70°C
	<b>Humidity</b>	5% to 95% Non-condensing
	<b>Weatherproof</b>	IP66-level weatherproof capability
<b>Compliance</b>	FCC, CE, RCM, IC	