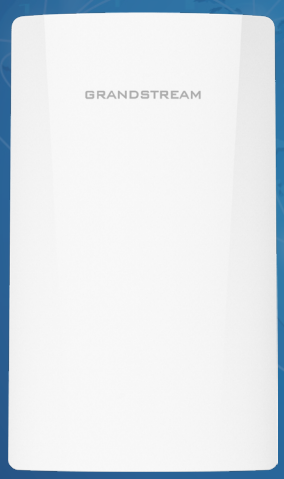
GRANDSTREAM
CONNECTING THE WORLD



Outdoor Wi-Fi Access Point with Phoenix Connector

GWN7605CLR

The GWN7605CLR is an outdoor Wi-Fi access point with a Phoenix Connector that provides stable elecrtical connection, supports quick dissasembly 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 controller -less 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.

Gigabit

1.27Gbps aggregate wireless throughput and 2×Gigabit wireline ports

2x2 MIMO

Dual-band 2×2:2 MU-MIMO 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

150 meters

Up to 150-meter coverage range

QoS

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

Anti-hacking secure boot and critical data/control lockdown

Flexibilty 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

Hardware Specifications

Radio	**Antenna**	2 dual band internal antennas 2.4GHz, gain 4.0dBi 5GHz, gain 4.0dBi
	MIMO	2.4GHz: 2x2:2, MIMO 5GHz: 2x2:2, MU-MIMO
	Frequency Bands	2.4GHz Radio: 2400 - 2483.5 MHz 5GHz Radio: 5150 - 5850 MHz **Not all frequency bands can be used in all regions*
	Channel Bandwidth	2.4G: 20 and 40MHz 5G: 20, 40 and 80MHz
	Wi-Fi Data Rates	**I**EEE 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 **Actual throughput may vary depending on many factors including environmental conditions, distance between devices, radio interfe- rence in the operating environment and mix of devices in the network*
	Maximum TX Power	2.4G: 24dBm 5G: 22dBm **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; **5G** 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11ac 20MHz: -67dBm @MCS8; 802.11ac 40MHz: -63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9;
	Coverage Range	Up to 150 meters **Coverage range can vary based on environment*
Interfaces	**Network Ports**	1x autosensing 10/100/1000 Base-T Ethernet Port, RJ-45, PoE input 1x autosensing 10/100/1000 Base-T Ethernet Port, RJ-45
	LEDs	1 tri-color LED for device tracking and status indication
	Auxiliary Ports	1x Reset Pinhole
Power	**PoE Input**	802.3af/at
	DC	PHOENIX CONNECTOR(12V-24V)
	Maximum Power Consumption	10W
Physical	**Dimensions**	Unit: 180 × 107 × 45 mm Entire Package: 219 × 185.5 × 66 mm
	Weight	Unit: 368g Entire Package: 695g
	Mounting	Outdoor metal bar mount or wall mount, kits included
	Package Content	GWN7605CLR Outdoor Wi-Fi Wireless AP, Mounting Kits, Quick Start Guide
Environmental	**Temperature**	Operation: -30°C to 60°C Storage: -30°C to 70°C
	Humidity	5% to 95% Non-condensing
	Weatherproof	IP66-level weatherproof capability
Compliance	FCC, CE, RCM, IC	

Software Specifications

WLAN	**Wi-Fi Standards**	IEEE 802.11 a/b/g/n/ac (Wave-2)
	SSIDs	16 SSIDs total, 8 per radio (2.4GHz & 5GHz)
	Concurrent Clients	100+
	Basics	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
	SSID Hidden	Restrict access and improve wireless network security by SSID hiding
	Port Aggregation	Multiple uplink ports for port aggregation to increase uplink bandwidth
	Multicast/Broadcast Suppression	Multicast/Broadcast enable optimization with ARP proxy
	Multicast Enhancement	Convert multicast data into unicast data for transmission
	Bandwidth Limiting	Support SSID/Client/MAC/IP-based rate limiting
	Band Steering/Client Steering	Guide client to the frequency band with more abundant spectrum resources
	RRM	Dynamically assign radio power, channel
	VPN	L2TPv3
	VLAN	Support interface/SSID/MAC binding VLAN based Management VLAN Dynamic VLAN
	Time Policy	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 reconnec type after a timeout
	Schedule	Support SSID, LED, Reboot schedule
WLAN Extension	**Bridge**	Support
	Mesh	2.4GHz, 5GHz, 2.4GHz&5GHz
	Hotspot2.0	Support
	Wireless Roaming	802.11k, 802.11v, 802.11r Layer 2 roaming
Network	**IPv4**	Static or DHCP
	IPv6	Static or DHCP
	DHCP	Support server/client/relay
	NAT	NAT Pool
	LLDP	Link Layer Discovery Protocol, discovering and identifying other LLDP enabled devices and neighboring devices in the network
User Authentication	**802.1x authentication**	Support
	MAC authentication	Use client MAC address as the username and password for access control through the RADIUS server
	PPSK	PPSK with/without RADIUS
	Captive Portal	Support radius/social login/vouchers/password/SAML SSO/active directory authentication
Security	**Encryption**	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
	Forwarding Security	MAC filtering Client isolation OS filtering
	WIDS	Inbound/outbound traffic rules Rogue AP detection and containment ARP attack defense ND attack defense
Service Quality	**QoS**	802.11e/WMM,802.1p, 802.1q, TOS
Management Platform	**Local Web**	Embedded controller can manage up to 50 local GWN APs
	GDMS Networking	A free cloud management platform for unlimited GWN APs
	GWN Manager	premise-based software controller for up to 3,000 GWN APs
	GWN APP	Integrate GDMS Networking and GWN Manager to manage GWN APs via the APP
	Management Protocol	TR-069 SNMP