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GWN7605L

Compact Dual-Band Wi-Fi 5 Access Point

GWN7605L is a compact dual-band 802.11ac Wave 2 AP offering essential features at a competitive price. It features a 2.4 GHz 2×2:2 MIMO and 5 GHz 2×2:2 MU-MIMO antenna design with beamforming technology to maximize network throughput and expand Wi-Fi coverage. As a Fit AP, it can be managed via the local web UI of other GWN APs, cloud-based GDMS Networking and on-premises GWN Manager. Effortlessly scalable alongside existing GWN APs, GWN7605L is the ideal wireless solution for growing retail stores, restaurants, and small offices.

Feature Highlights

Features 1166 Mbps aggregate wireless throughput and 1 Gbps wired throughput.

Supports 2.4 GHz 2×2:2 MIMO and 5 GHz 2×2:2 MU-MIMO antenna architecture with advanced beamforming for maximum network throughput and expanded Wi-Fi coverage.

Supports seamless auto-sensing power input for standard PoE (802.3af) and PoE+ (802.3at).

Delivers reliable connectivity across a vast 100-meter coverage range.

Connects more than 60 Wi-Fi client devices simultaneously without compromising speed.

Flexible management via local web UI of primary GWN APs, and GDMS Networking, or GWN Manager.

Application Scenarios

Featuring a compact form factor and competitive pricing, GWN7605L provides the perfect wireless foundation for low-density environments. It delivers seamless, reliable Wi-Fi coverage tailored to meet the daily operational demands of retail stores, restaurants, and small office spaces.



Retail Stores



Restaurants



Small Offices

Deployment Options

Engineered for effortless integration into any network environment, the GWN7605L connects via a wired uplink directly to your network switch, router, or an upstream GWN AP with PoE pass-through. Operating as a dedicated Fit AP, the GWN7605L requires centralized management and cannot function as a standalone access point. For full deployment, it must be managed either locally through a primary GWN AP or remotely via GDMS Networking.



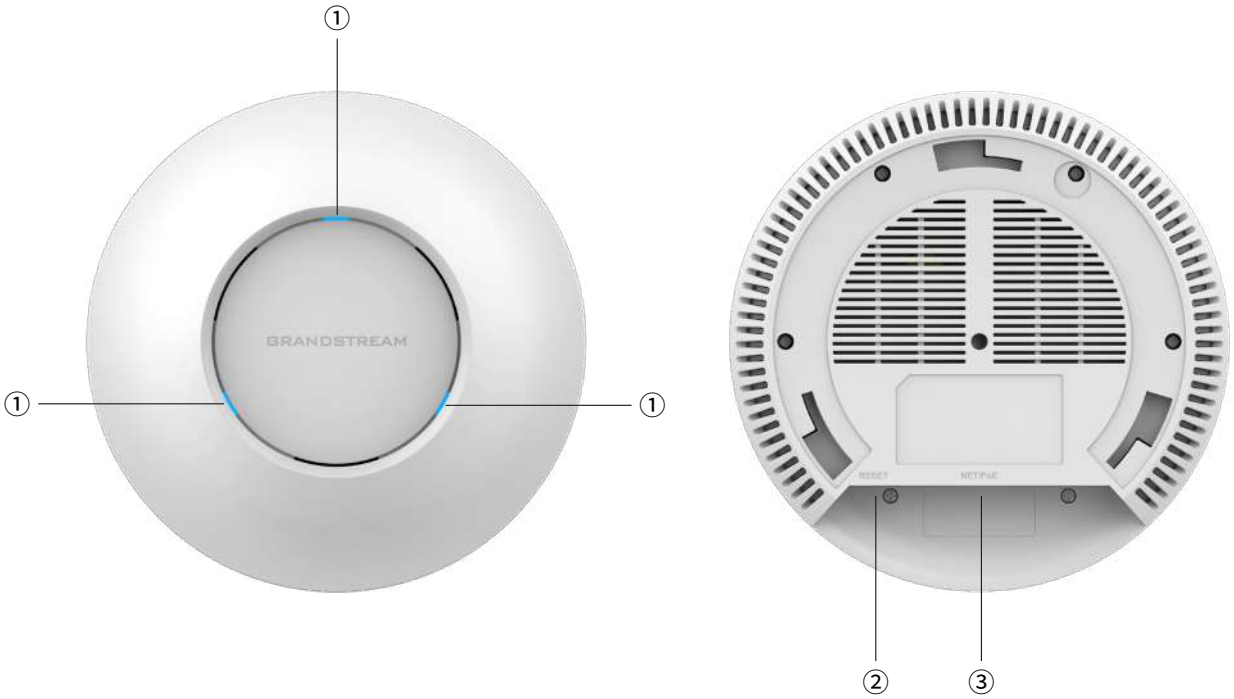
Cloud Management with GDMS

GDMS Networking enables remote registration, configuration, and monitoring for GWN7605L. This cloud-managed deployment eliminates the need for an on-premises primary AP while simplifying multi-site management, real-time monitoring, and system maintenance.

Local Management with Primary AP

For local LAN environments, the GWN7605L pairs seamlessly with a designated primary GWN AP, which serves as the central management hub. Once provisioned, it effortlessly expands your wireless footprint to deliver fast and reliable Wi-Fi coverage across all client devices.

Hardware Overview



GWN7605L

① **Indicator**	② **Reset**	③ **1 GbE/PoE**

Technical Specifications

		GWN7605L
Basic	Unit Dimensions	Φ180.4 mm × 40.8 mm (Φ7.10" × 1.61")
	Package Dimensions	228.5 mm × 220 mm × 79 mm (9.00" × 8.66" × 3.11")
	Unit Weight	TBD
	Package Weight	TBD
	Mounting	Indoors Wall Mount, Ceiling Mount
Radio	Antenna	4 single frequency antennas • 2.4 GHz: 2 × 2.5 dBi • 5 GHz: 2 × 4.5 dBi
	MIMO	• 2.4 GHz: 2×2:2, MIMO • 5 GHz: 2×2:2, MU-MIMO
	Frequency Bands	• 2.4 GHz Radio: 2,400–2,483.5 MHz • 5 GHz Radio: 5,150–5,845 MHz **Not all frequency bands can be used in all regions*
	Channel Bandwidth	• 2.4 GHz: 20 and 40 MHz • 5 GHz: 20, 40 and 80 MHz
	Wi-Fi Data Rates	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 300 Mbps; 400 Mbps with 256-QAM on 2.4 GHz 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*
	Maximum TX Power	• 2.4 GHz: 21 dBm • 5 GHz: 23 dBm **Maximum power varies by country, frequency band and MCS rate*
	Receiver Sensitivity	• 2.4 GHz 802.11b: -96 dBm@1 Mbps, -88 dBm@11 Mbps 802.11g: -93 dBm@6 Mbps, -75 dBm@54 Mbps 802.11n 20 MHz: -73 dBm@MCS7 802.11n 40 MHz: -70 dBm@MCS7 • 5 GHz 802.11a: -92 dBm@6 Mbps, -74 dBm@54 Mbps 802.11ac 20 MHz: -67 dBm@MCS8 802.11ac: 40 MHz: -63 dBm@MCS9 802.11ac 80 MHz: -59 dBm@MCS9
	Coverage Range	Up to 100 m (328.08 ft) **Coverage range can vary based on environment*
Ports	Network Ports	1 × 1 GbE RJ45 port (Supports PoE Input)
	Other Ports	1 × Reset Pinhole, 1 × Kensington Lock
LED	System LED	3 tri-color LEDs for device tracking and status indication
Power	PoE Standards	802.3af
	Max Power Consumption	9.3 W
Environmental Endurance	Operating Temperature	0 °C to 45 °C (32 °F to 113 °F)
	Storage Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
	Humidity	10%–90%, non-condensing

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Certification	Compliance	FCC, CE, RCM, IC
	Wi-Fi Alliance	• Access: Passpoint® Release 3 • Network management: WMM® Wi-Fi Agile Multiband™ • Security: Protected Management Frames WPA2™-Enterprise 2018-04 WPA2™-Personal 2021-01 WPA3™-Enterprise 2022-12 WPA3™-Personal 2024-10 • Wi-Fi (MAC/PHY) : 2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities Wi-Fi CERTIFIED™ a Wi-Fi CERTIFIED™ ac Wi-Fi CERTIFIED™ b Wi-Fi CERTIFIED™ g Wi-Fi CERTIFIED™ n **Wi-Fi Alliance certifications for this model are currently under testing. Specifications are preliminary and subject to change without notice.*

Key Features

		GWN7605L
WLAN	Wi-Fi Standards	Wi-Fi 5 (IEEE 802.11a/b/g/n/ac (Wave 2))
	SSIDs	8 SSIDs in total, 4 per radio: 2.4 GHz & 5 GHz
	Client Capacity	Up to 60+ concurrent clients
	Advanced Wireless Features	• Beamforming • Maximal Ratio Combining (MRC) • Space-Time Block Coding (STBC) • Low-Density Parity-Check (LDPC) • 802.11 Dynamic Frequency Selection (DFS)
	SSID Hidden	Restricts access and enhances network privacy by hiding the SSID
	Multicast/Broadcast Suppression	Yes
	Multicast Enhancement	Converts multicast data into unicast data for transmission
	Bandwidth Limiting	Supports rate limiting based on SSID, Client, MAC, or IP address
	Band Steering	Yes
	Client Steering	Yes
	RRM	Dynamic assignment of radio power and channels
	VLAN	• Supports VLAN binding based SSID • Supports Management VLAN
	Time Policy	• Tracks the time that the client connects to Wi-Fi • Supports setting the amount of time for the client to connect to Wi-Fi and the reconnection typ after a timeout
	Schedule	Supports SSID, LED, and Reboot scheduling
WLAN Extension	Wireless Roaming	• 802.11k, 802.11v, 802.11r • Layer 2 roaming
	Mesh	2.4 GHz, 2.4 GHz & 5 GHz, 5 GHz
Network	IPv4	Static IP or DHCP assignment
	IPv6	Static IP or DHCP assignment
	DHCP	Supports Server, Client, and Relay modes
	NAT	NAT Pool
	LLDP	Link Layer Discovery Protocol for automated device identification

		GWN7605L
User Authentication	802.1x Authentication	Yes
	MAC Authentication	RADIUS-based access control using client MAC addresses as credentials
	PPSK	PPSK with or without RADIUS
	Captive Portal	Supports RADIUS, Vouchers, Password, Email, SMS and Custom Field authentication
Security and Maintenance	Encryption	• Open System • WPA2-PSK (Personal) • WPA2-802.1x (Enterprise) • WPA3-SAE (Personal) • WPA3-802.1x (Enterprise) • WPA/WPA2, WPA2/WPA3 • Unique Security Certificate and Random Default Password per Device
	Firmware Security	• Anti-Hacking Secure Boot • Critical Data and Control Lockdown via Digital Signatures • Inbound/Outbound Traffic Rules
	Forwarding Security	• MAC Filtering • Client Isolation • OS Filtering
	Management Protocol	• TR-069 • SNMP
Service Quality	QoS	802.11e/WMM, 802.1p, 802.1q, TOS
Management Platform	Local Management	Local Web UI of a Primary GWN AP: Manages up to 50 local APs, such as GWN7605L
	Centralized Management	• 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: Integrates GDMS Networking and GWN Manager to manage GWN APs via the app

Package Contents

		GWN7605L
Standard Items	Primary Unit	1 × GWN7605L Wi-Fi 5 Wireless AP
	Manual and License	1 × Quick Installation Guide 1 × Certification Regulatory Information
	Installation Accessories	1 × Mounting Bracket 1 × Ceiling Mounting Bracket 3 × Ceiling Plastic Expansions Bolts 3 × Pan Head Tapping Screws (ST3.5 × 20 mm) 3 × Pan Head Machine Screws (M3 × 50 mm) 3 × M3 Nuts

Ordering Information

	Item	GWN7605L
GWN AP	GWN7605L	Compact Dual-Band Wi-Fi 5 Access Point, 1 × 1 GbE, 1166 Mbps, 2.4G 2×2 MIMO and 5G 2×2 MU-MIMO

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