



GWN7670ELR

Long-Range Dual-Band Wi-Fi 7 Access Point

The GWN7670ELR is a high-performance outdoor Wi-Fi 7 BE3600 access point designed for medium-to-large businesses. Featuring advanced 2.4 GHz 2x2:2 and 5 GHz 3x3:2 MU-MIMO plus DL/UL OFDMA, it delivers exceptional throughput and range. Boosted by Xtra Range 2.0 on the 5 GHz band, it shatters coverage barriers with enhanced signal penetration for seamless 360-degree connectivity. Its IP67-rated weatherproof design ensures stable operation in harsh outdoor environments. This model offers hybrid management flexibility through its local web UI or cloud-based platforms like GDMS Networking and GWN Manager. The GWN7670ELR delivers robust, long-range Wi-Fi for enterprises, multi-floor offices, warehouses, parks, hospitals, schools, and more.

Feature Highlights



Features 3.6 Gbps aggregate wireless throughput and 2.5 Gbps wired throughput.



Supports up to 1,000 PPSK accounts for secure, individualized user access.



Xtra Range 2.0 technology on the 5 GHz band enhances signal penetration and network coverage.



The SFP port delivers rock-solid optical transmission across distances of up to 20 km.



Integrates Wi-Fi 7 Certified connectivity with dual-band 2.4 GHz 2x2:2 and 5 GHz 3x3:2 MU-MIMO, supporting MLO, 4K QAM, MRU, and preamble puncturing.



Besides the intuitive local Web UI, you can manage APs via GDMS Networking and GWN Manager for comprehensive cloud and on-premises control.



Engineered to withstand the outdoor harsh environments with a certified IP67 rating.



Connects up to 512 Wi-Fi client devices simultaneously without compromising speed.

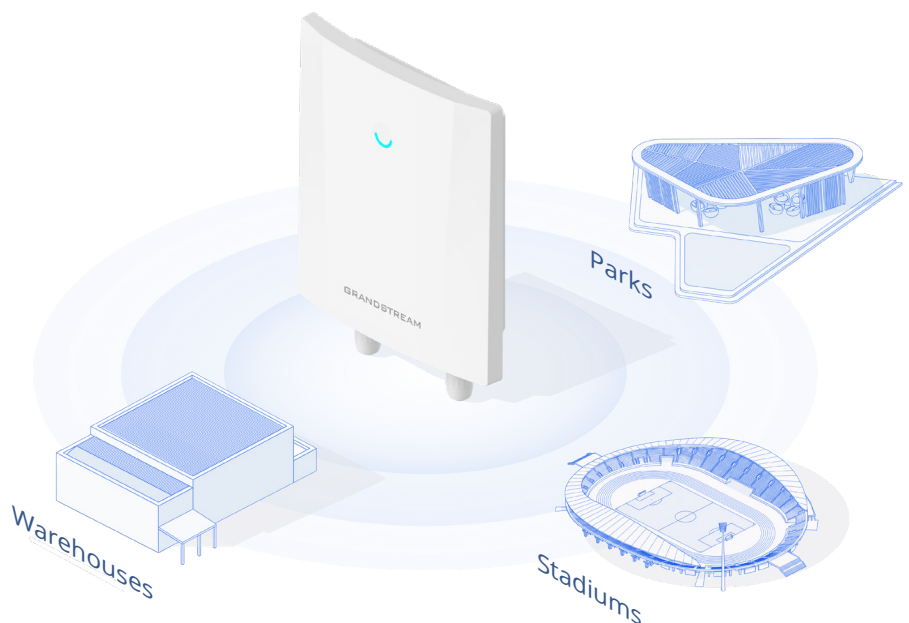


Delivers reliable connectivity across a vast 350-meter coverage range.

Application Scenarios

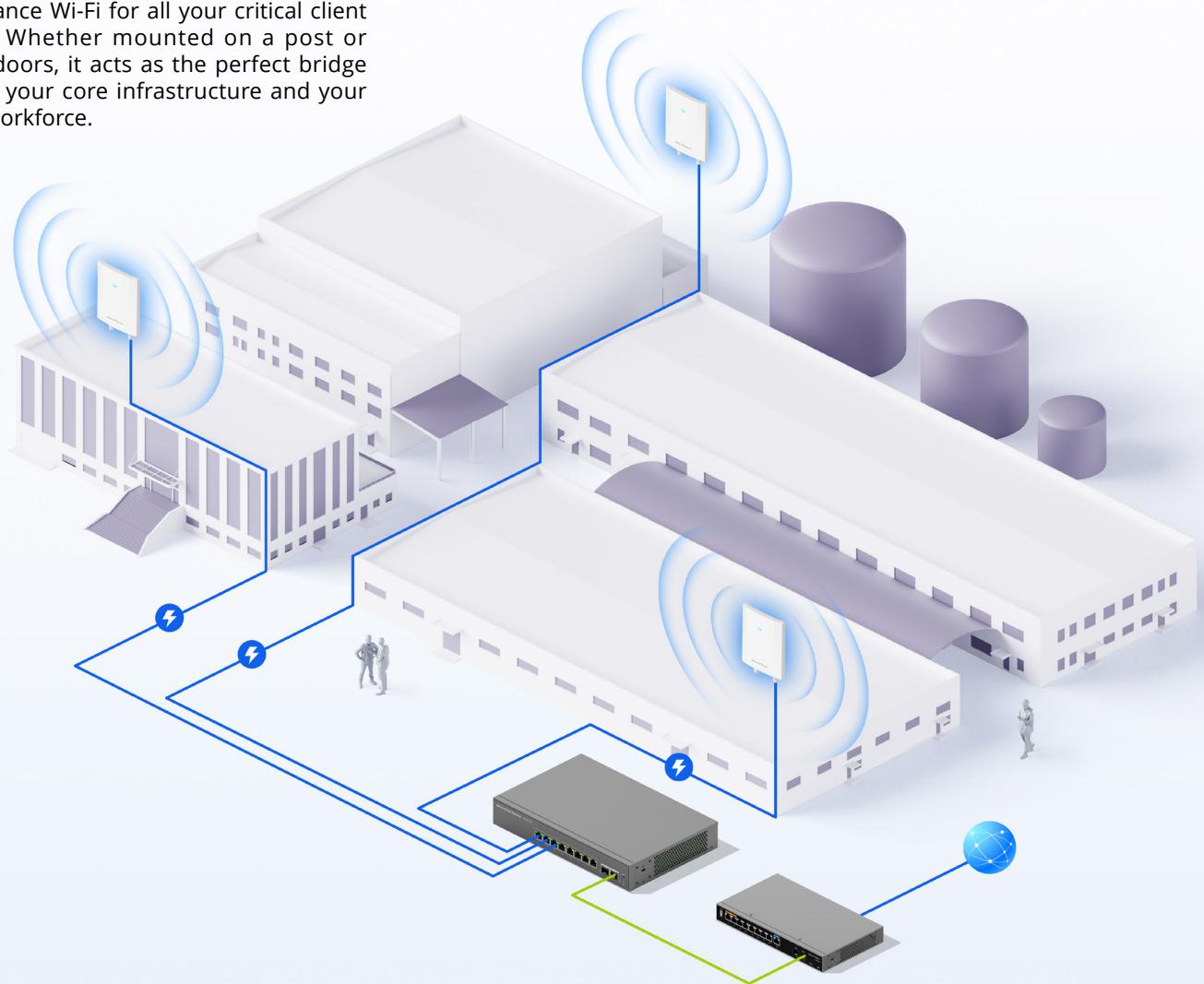
This model is purpose-built for superior outdoor connectivity with its IP67 rating, delivering enterprise-grade performance for stadiums, warehouses, and parks.

Its omnidirectional antennas provide seamless 360° coverage in high-density venues like stadiums, eliminating the need for complex adjustments. For industrial zones, its rugged design ensures reliable connectivity in warehouse loading docks and parking lots. Additionally, this easily pole-mounted model provides visitors with fast, stable public Wi-Fi throughout park grounds.



Classic Deployment

Engineered for effortless integration into any network environment, the GWN7670ELR establishes a high-speed wired uplink to your routers and switches. Once connected, it serves as a powerful wireless hub, broadcasting a robust signal to provide high-performance Wi-Fi for all your critical client devices. Whether mounted on a post or wall outdoors, it acts as the perfect bridge between your core infrastructure and your mobile workforce.



Up to 1,000 PPSKs

Provide users with unique passphrases for secure, multi-device access via PPSK authentication.



Captive Portal

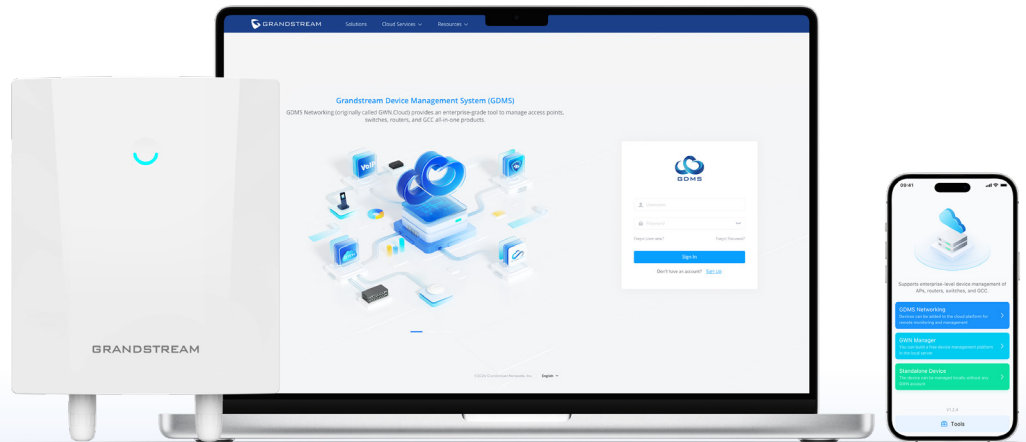
Flexibly configure a custom portal for network access verification, boosting brand awareness with targeted marketing messages.



Cloud Management

Beyond local Web UI control, this model supports GDMS Networking, a premier cloud-based management platform. It delivers real-time monitoring, instant alerts, and in-depth statistics.

Accessible from anywhere via a web browser or mobile app, GDMS Networking makes AP management across multiple locations simpler and more intuitive than ever.



Superior RF Performance

By combining a high-gain 5 GHz antenna with cutting-edge Xtra Range 2.0 technology, this model delivers superior signal penetration that effortlessly reaches through walls and ensures seamless edge-to-edge coverage.

This synergy guarantees a vastly expanded reach and rock-solid stability, maintaining a flawless connection even at long distances or through multiple obstructions.

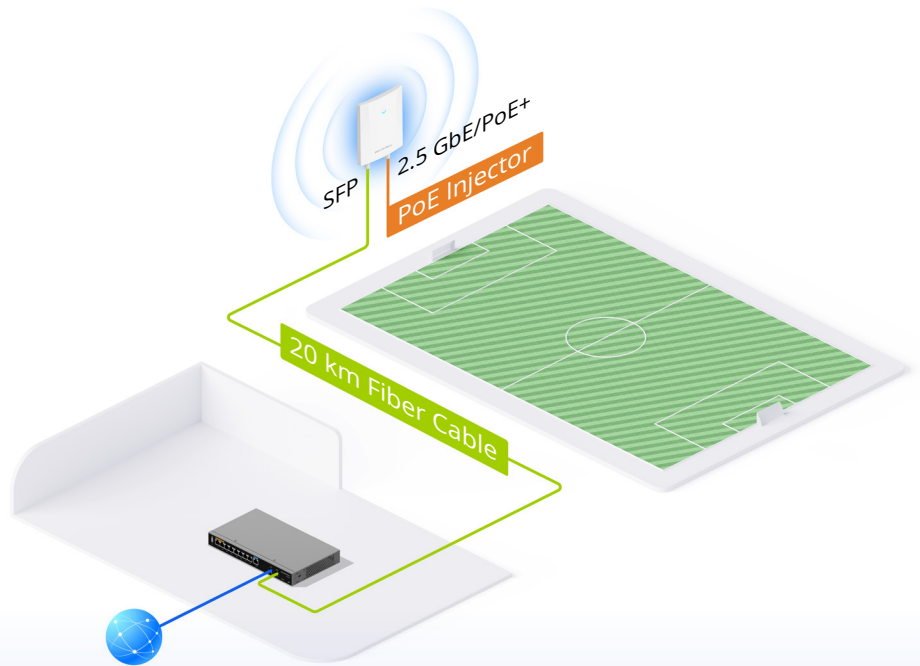
5 GHz
Integrated Xtra Range 2.0



SFP Port for Long-Range Transmission

In addition to traditional copper cabling, this AP supports single-mode and multi-mode fiber cabling. You can insert an SFP module to transmit signals to AP deployment areas at a distance of up to 20 km via single-mode fiber cable, shattering the distance constraints of standard copper wiring.

In this configuration, the SFP port exclusively manages high-speed data transmission over long distances, while the 2.5 GbE port receives PoE power. This dual-link approach offers an incredibly flexible, robust, and reliable solution for achieving seamless wireless coverage across expansive environments.

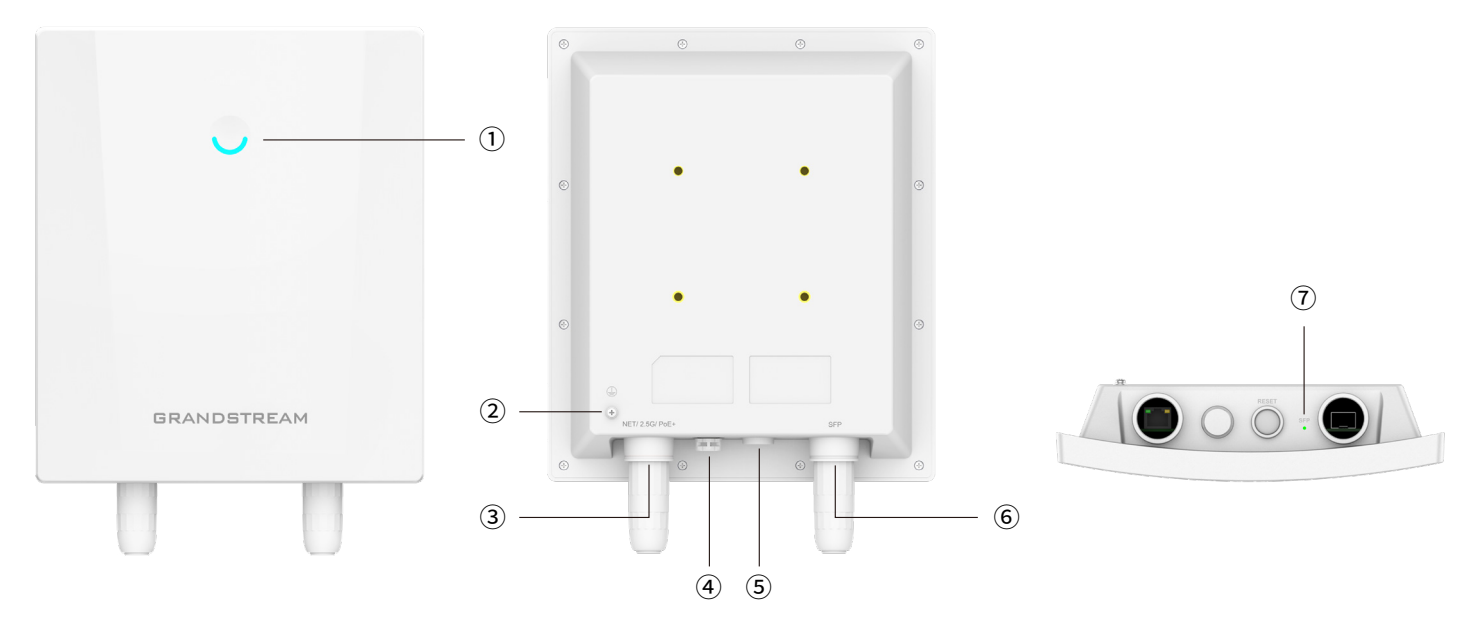


Excellent Outdoor Protection

Engineered with a rugged IP67 rating, this model is built to thrive in the harsh environments. From high-altitude regions to extreme temperatures ranging from -30 °C to 60 °C (-22 °F to 140 °F) and even intense sandstorms, it ensures rock-solid stability when it matters most.



Hardware Overview



GWN7670ELR

① Indicator	② Grounding	③ 2.5 GbE/PoE+	④ Waterproof Breather Vent
⑤ Reset	⑥ SFP	⑦ SFP Port LED	

Technical Specifications

		GWN7670ELR
Basic	Unit Dimension	270 mm × 230 mm × 57 mm (10.63" × 9.06" × 2.24")
	Package Dimension	439 mm × 329 mm × 137 mm (17.28" × 12.95" × 5.39")
	Unit Weight	1.3 kg (2.87 lb)
	Package Weight	2.347 kg (5.17 lb)
	Installation Methods	Wall Mount, Pole Mount
Radio	Antenna	5 single-frequency antennas • 2.4 GHz: 2 × 5.5 dBi • 5 GHz: 3 × 6.5 dBi
	MIMO	• 2.4 GHz: 2×2:2, MU-MIMO • 5 GHz: 3×3:2, MU-MIMO
	Frequency Bands	• 2.4 GHz Radio: 2,400–2,483.5 MHz • 5 GHz Radio: 5,150–5,850 MHz <i>*Not all frequency bands can be used in all regions</i>
	Channel Bandwidth	• 2.4 GHz: 20 and 40 MHz • 5 GHz: 20, 40, 80 and 160 MHz
	Wi-Fi Data Rates	• 2.4 GHz IEEE 802.11b: Up to 688 Mbps IEEE 802.11a: 7.3 Mbps to 573.5 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps • 5 GHz IEEE 802.11b: Up to 2,882 Mbps IEEE 802.11a: 7.3 Mbps to 2,402 Mbps IEEE 802.11ac: 6.5 Mbps to 1,732 Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps IEEE 802.11a: 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>
	Maximum TX Power	• 2.4 GHz: 24 dBm • 5 GHz: 26 dBm <i>*Maximum power varies by country, frequency band and MCS rate</i>
	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 802.11ax 20 MHz: -60 dBm@MCS11; 802.11ax 40 MHz: -58 dBm@MCS11 802.11be 20 MHz: -60 dBm@MCS13; 802.11be 40 MHz: -57 dBm@MCS13 • 5 GHz 802.11a: -92 dBm@6 Mbps, -74 dBm@54 Mbps; 802.11n 20 MHz: -73 dBm@MCS7; 802.11n 40 MHz: -70 dBm@MCS7 802.11ac 20 MHz: -67 dBm@MCS8; 802.11ac 40 MHz: -63 dBm@MCS9 802.11ac 80 MHz: -59 dBm@MCS9 802.11ax 20 MHz: -60 dBm@MCS11; 802.11ax 40 MHz: -58 dBm@MCS11 802.11ax 80 MHz: -56 dBm@MCS11; 802.11ax 160 MHz: -52 dBm@MCS11 802.11be 20 MHz: -59 dBm@MCS13; 802.11be 40 MHz: -56 dBm@MCS13 802.11be 80 MHz: -54 dBm@MCS13; 802.11be 160 MHz: -52 dBm@MCS13
	Coverage Range	Up to 350 m (1,148.29 ft) <i>*Coverage range may vary based on environment</i>
Ports	Network Ports	1 × 2.5 GbE RJ45 port (Supports PoE Input) 1 × SFP port
	Other Ports	1 × Reset Pinhole, 1 × Kensington Lock
LED	System LED	1 tri-color LED for device tracking and status indication 1 green LED for SFP status (Supports LC Fiber)
Power and Energy	PoE Standards	802.3at
	Max Power Consumption	16 W
Environmental Endurance	Operating Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
	Storage Temperature	-30 °C to 70 °C (-22 °F to 158 °F)
	Humidity	5%–95%, non-condensing
Certification	Compliance	FCC, CE, RCM, IC
	Ingress Protection	IP67

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Certification	Wi-Fi Alliance	• Access: Passpoint® Release 3 • Network management: WMM® • Security: Wi-Fi Agile Multiband™ - Protected Management Frames - WPA2™-Enterprise - WPA2™-Personal - WPA3™-Enterprise - WPA3™-Personal - WPA™-Enterprise - WPA™-Personal • Wi-Fi (MAC/PHY) : 2.4 GHz Spectrum Capabilities 5 GHz Spectrum Capabilities - Spectrum & Regulatory - Wi-Fi CERTIFIED 6® - Wi-Fi CERTIFIED 7™ - Wi-Fi CERTIFIED™ a - Wi-Fi CERTIFIED™ ac - Wi-Fi CERTIFIED™ b - Wi-Fi CERTIFIED™ g - Wi-Fi CERTIFIED™ n <i>*Wi-Fi Alliance certifications for this model are currently under testing. Specifications are preliminary and subject to change without notice.</i>

Key Features

		GWN7670ELR
WLAN	Wi-Fi Standards	Wi-Fi 7 (IEEE 802.11a/b/g/n/ac/ax/be)
	SSIDs	32 SSIDs in total, 16 per radio: 2.4 GHz & 5 GHz
	Client Capacity	Up to 512 concurrent clients
	Advanced Wireless Features	• Beamforming • OFDMA • Multi-RU • Preamble Puncturing • 4096-QAM • Multilink Operation (MLO) • 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	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
	VPN	L2TPv3
	VLAN	• Supports VLAN binding based on Interface, SSID, or MAC address • Supports Management VLAN and Dynamic 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 type after a timeout
	Schedule	Supports SSID, LED, and Reboot scheduling

		GWN7670ELR
WLAN Extension	Bridge	Yes
	Extender	Yes
	Mesh	2.4 GHz, 2.4 GHz & 5 GHz, 5 GHz
	Hotspot 2.0	Yes
	Wireless Roaming	• 802.11k, 802.11v, 802.11r • Layer 2 roaming
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
User Authentication	802.1x Authentication	Yes
	MAC Authentication	RADIUS-based access control using client MAC addresses as credentials
	PPSK	PPSK with or without RADIUS Easy PSK
	Captive Portal	Supports RADIUS, Social Login, Vouchers, Password, SAML SSO, and Active Directory authentication
Security and Maintenance	Encryption	• Open System • OSEN • WPA2-PSK (Personal) • WPA2-802.1x (Enterprise) • WPA3-SAE (Personal) • WPA3-802.1x (Enterprise) • WPA3-OWE (Enhanced Open) • 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
	Forwarding Security	• MAC Filtering • Client Isolation • OS Filtering
	WIDS	• Inbound/Outbound Traffic Rules • Rogue AP Detection and Containment • ARP Attack Defense • ND Attack Defense
	Management Protocol	• TR-069 • SNMP
Service Quality	QoS	802.11e/WMM, 802.1p, 802.1q, TOS
Management Platform	Local Management	Local Web UI: Embedded controller which can manage up to 50 local GWN APs
	Cloud 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

GWN7670ELR		
Standard Items	Primary Unit	1 × GWN7670ELR Wi-Fi 7 Wireless AP
	Manual and License	1 × Quick Installation Guide 1 × Regulatory Paper
	Installation Accessories	1 × Base Bracket 1 × Mounting Bracket 2 × Metal Straps 4 × Pan Head Machine Screws (M4 × 10 mm) 4 × Cup Head Hexagon Socket Machine Screws with Spring Washers (M5 × 12 mm) 4 × Plastic Expansions Bolts
	Interface Waterproof Kits	1 × Nut Plug 1 × SFP Sealing Plug 2 × RJ45 Sealing Plugs 3 × O-Rings 2 × Clamp Nuts

Ordering Information

	Item	Description
GWN AP	GWN7670ELR	Long-Range Dual-Band Wi-Fi 7 Access Point, 1 × 2.5 GbE, 1 × SFP, BE3600, 2.4G 2×2:2 and 5G 3×3:2 MU-MIMO
Optical Receiver & Cables	F-MM850-550M-1.25G	1.25G SFP SR, Multi-Mode Fiber (0.3 km (OM1)/0.55 km (OM2), 850 nm, duplex LC, DDM)
	F-SM1310-10KM-10G	10G SFP+ LR, Single-Mode Fiber (10 km, 1,310 nm, duplex LC, DDM)
	F-MMB850-300M-10G	10G SR SFP+, Multi-Mode Fiber (0.3 km, 850 nm, duplex LC, DDM)

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