



# GWN7674LR Lite

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

The GWN7674LR Lite is a high-performance outdoor Wi-Fi 7 BE7200 access point designed for medium-to-large businesses. Featuring advanced 2.4 GHz 4×4:4 and 5 GHz 5×5:4 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 IP68-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 GWN7674LR Lite delivers robust, long-range Wi-Fi for enterprises, multi-floor offices, warehouses, parks, hospitals, schools, and more.

# Feature Highlights



Features 7.2 Gbps aggregate wireless throughput and 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 4x4:4 and 5 GHz 5x5:4 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 IP68 rating.



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

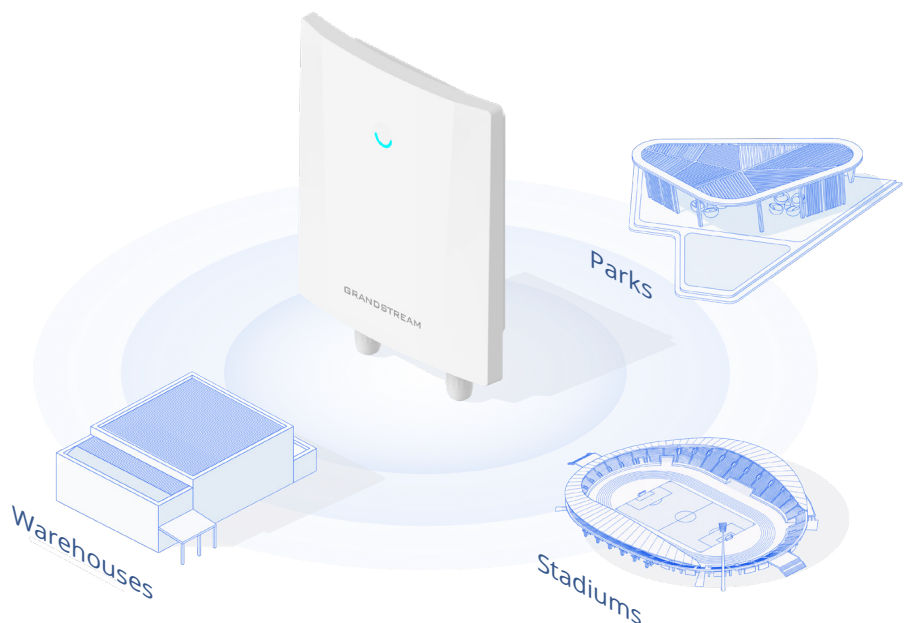


Delivers reliable connectivity across a vast 300-meter coverage range.

## Application Scenarios

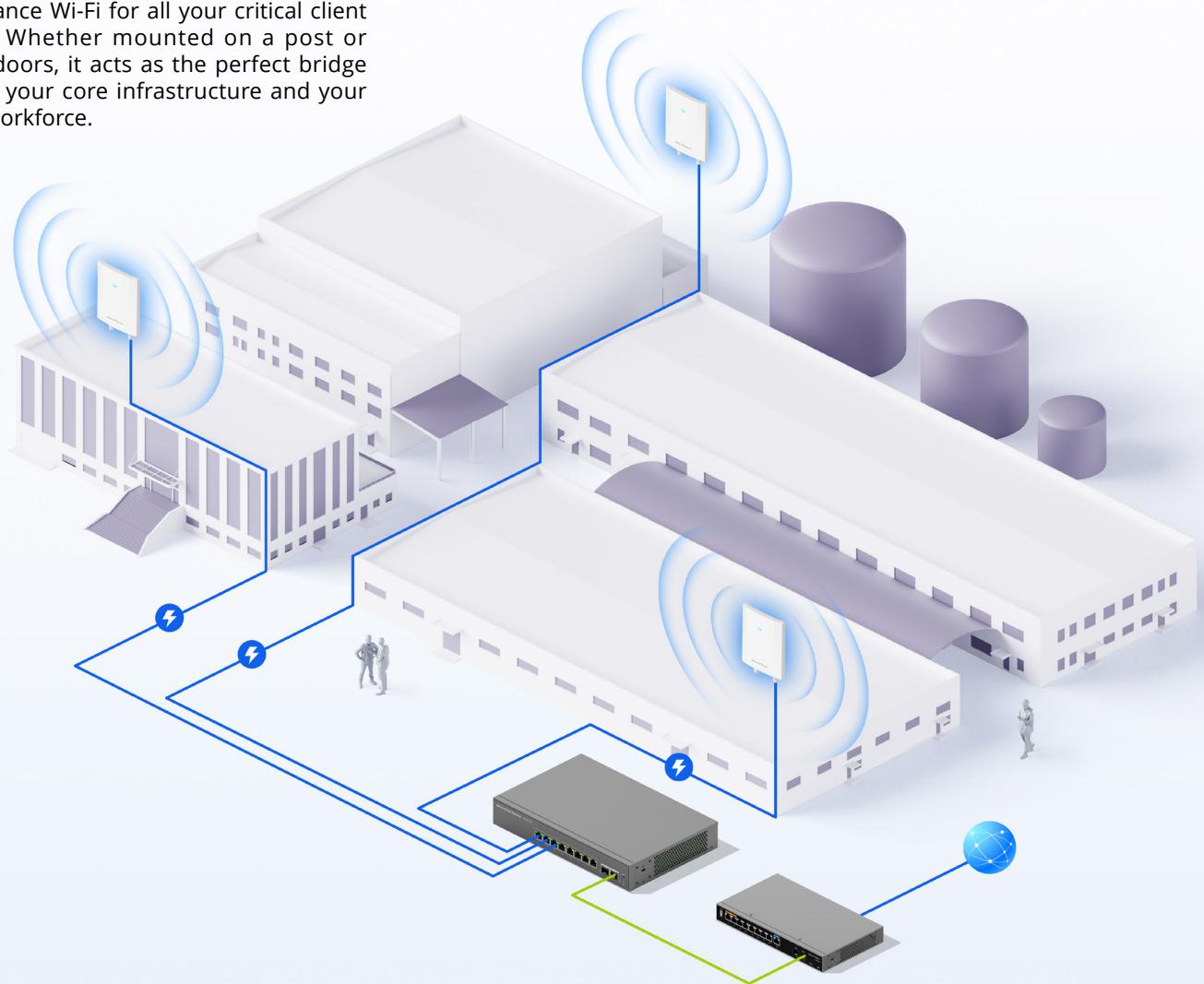
This model is purpose-built for superior outdoor connectivity with its IP68 rating, delivering enterprise-grade performance for stadiums, warehouses, and parks.

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 GWN7674LR Lite 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

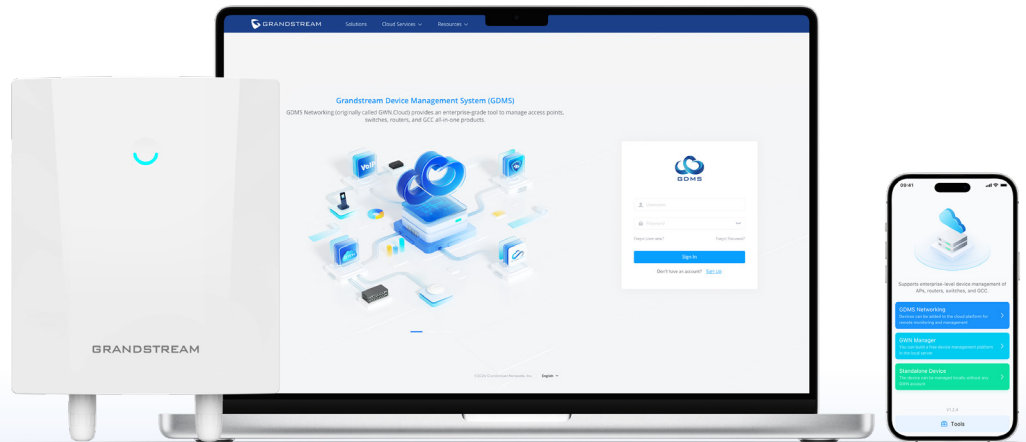
Flexibly configure a custom portal for network access verification, boosting brand awareness with targeted marketing messages.



# 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

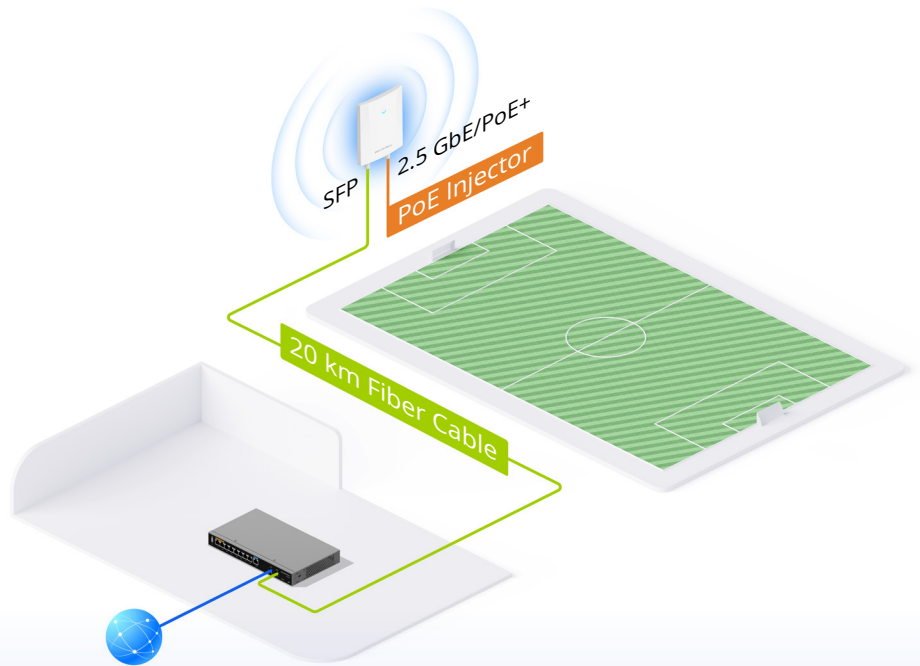
Integrated Xtra Range 2.0



## 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.

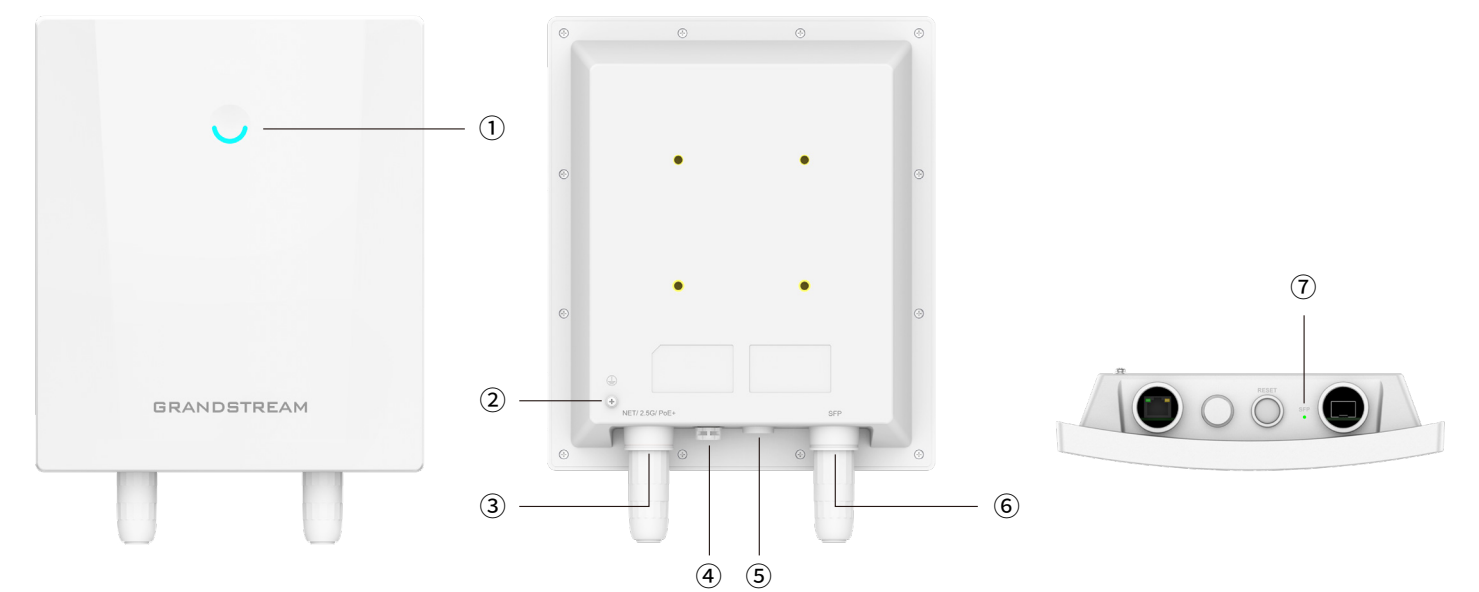


## Excellent Outdoor Protection

Engineered with a rugged IP68 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



## GWN7674LR Lite

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

# Technical Specifications

|                      |                       | GWN7674LR Lite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Basic</b>         | Unit Dimension        | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                      | Package Dimension     | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                      | Unit Weight           | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                      | Package Weight        | TBD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                      | Installation Methods  | Wall Mount, Pole Mount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Radio</b>         | Antenna               | <ul style="list-style-type: none"> <li>• 9 single-frequency antennas and 1 dual-frequency antenna</li> <li>• 2.4 GHz: 4 × 5.5 dBi</li> <li>• 5 GHz: 5 × 6.5 dBi</li> <li>• Zero-Wait DFS: 1 × Dual-band (4.5 dBi@2.4 GHz / 5.0 dBi@5 GHz)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                      | MIMO                  | <ul style="list-style-type: none"> <li>• 2.4 GHz: 4×4:4, MU-MIMO</li> <li>• 5 GHz: 5×5:4, MU-MIMO</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                      | Frequency Bands       | <ul style="list-style-type: none"> <li>• 2.4 GHz Radio: 2,400–2,483.5 MHz</li> <li>• 5 GHz Radio: 5,150–5,850 MHz</li> <li><i>*Not all frequency bands can be used in all regions</i></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                      | Channel Bandwidth     | <ul style="list-style-type: none"> <li>• 2.4 GHz: 20 and 40 MHz</li> <li>• 5 GHz: 20, 40, 80 and 160 MHz</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                      | Wi-Fi Data Rates      | <ul style="list-style-type: none"> <li>• 2.4 GHz</li> <li>IEEE 802.11b: Up to 1,376 Mbps</li> <li>IEEE 802.11a: 7.3 Mbps to 1,148 Mbps</li> <li>IEEE 802.11n: 6.5 Mbps to 600 Mbps</li> <li>IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li>IEEE 802.11b: 1, 2, 5.5, 11 Mbps</li> <li>• 5 GHz</li> <li>IEEE 802.11b: Up to 5,764 Mbps</li> <li>IEEE 802.11a: 7.3 Mbps to 4,804 Mbps</li> <li>IEEE 802.11ac: 6.5 Mbps to 3,464 Mbps</li> <li>IEEE 802.11n: 6.5 Mbps to 600 Mbps</li> <li>IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li> <li><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></li> </ul>                                                                                                                                                         |
|                      | Maximum TX Power      | <ul style="list-style-type: none"> <li>• 2.4 GHz: 24.5 dBm</li> <li>• 5 GHz: 23.5 dBm</li> <li><i>*Maximum power varies by country, frequency band and MCS rate</i></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                      | Receiver Sensitivity  | <ul style="list-style-type: none"> <li>• 2.4 GHz</li> <li>802.11b: -96 dBm@1 Mbps, -88 dBm@11 Mbps</li> <li>802.11g: -93 dBm@6 Mbps, -75 dBm@54 Mbps</li> <li>802.11n 20 MHz: -73 dBm@MCS7; 802.11n 40 MHz: -70 dBm@MCS7</li> <li>802.11ax 20 MHz: -60 dBm@MCS11; 802.11ax 40 MHz: -58 dBm@MCS11</li> <li>802.11be 20 MHz: -65 dBm@MCS13; 802.11be 40 MHz: -62 dBm@MCS13</li> <li>• 5 GHz</li> <li>802.11a: -92 dBm@6 Mbps, -74 dBm@54 Mbps</li> <li>802.11n 20 MHz: -73 dBm@MCS7; 802.11n 40 MHz: -70 dBm@MCS7</li> <li>802.11ac 20 MHz: -67 dBm@MCS8; 802.11ac 40 MHz: -63 dBm@MCS9</li> <li>802.11ac 80 MHz: -59 dBm@MCS9</li> <li>802.11ax 20 MHz: -60 dBm@MCS11; 802.11ax 40 MHz: -58 dBm@MCS11</li> <li>802.11ax 80 MHz: -56 dBm@MCS11; 802.11ax 160 MHz: -52 dBm@MCS11</li> <li>802.11be 20 MHz: -59 dBm@MCS13; 802.11be 40 MHz: -56 dBm@MCS13</li> <li>802.11be 80 MHz: -54 dBm@MCS13; 802.11be 160 MHz: -52 dBm@MCS13</li> </ul> |
|                      | Coverage Range        | <ul style="list-style-type: none"> <li>Up to 300 m (984.25 ft)</li> <li><i>*Coverage range can vary based on environment</i></li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Ports</b>         | Network Ports         | <ul style="list-style-type: none"> <li>1 × 2.5 GbE RJ45 port (Supports PoE Input)</li> <li>1 × SFP port</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                      | Other Ports           | 1× Reset Pinhole, 1× Kensington Lock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>LED</b>           | System LED            | 1 tri-color LED for device tracking and status indication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Power</b>         | PoE Standards         | 802.3at                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                      | Max Power Consumption | 25.5 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Environmental</b> | Operating Temperature | -30 °C to 60 °C (-22 °F to 140 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                      | Storage Temperature   | -40°C to 70°C (-40 °F to 158 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                      | Humidity              | 5%–95%, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Certification</b> | Ingress Protection    | IP68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                      | Compliance            | FCC, CE, RCM, IC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

|               |                | GWN7674LR Lite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certification | Wi-Fi Alliance | <ul style="list-style-type: none"> <li>• Access: Passpoint® Release 3</li> <li>• Network management: WMM®</li> <li>• Security: Wi-Fi Agile Multiband™</li> <li>Protected Management Frames</li> <li>WPA2™-Enterprise</li> <li>WPA2™-Personal</li> <li>WPA3™-Enterprise</li> <li>WPA3™-Personal</li> <li>WPA™-Enterprise</li> <li>WPA™-Personal</li> <li>• Wi-Fi (MAC/PHY) : 2.4 GHz Spectrum Capabilities</li> <li>5 GHz Spectrum Capabilities</li> <li>Spectrum &amp; Regulatory</li> <li>Wi-Fi CERTIFIED 6®</li> <li>Wi-Fi CERTIFIED 7™</li> <li>Wi-Fi CERTIFIED™ a</li> <li>Wi-Fi CERTIFIED™ ac</li> <li>Wi-Fi CERTIFIED™ b</li> <li>Wi-Fi CERTIFIED™ g</li> <li>Wi-Fi CERTIFIED™ n</li> </ul> <p><i>*Wi-Fi Alliance certifications for this model are currently under testing. Specifications are preliminary and subject to change without notice.</i></p> |

## Key Features

|      |                                 | GWN7674LR Lite                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WLAN | Wi-Fi Standards                 | Wi-Fi 7 (IEEE 802.11a/b/g/n/ac/ax/be)                                                                                                                                                                                                                                                                                                                                                                                                    |
|      | SSIDs                           | 32 SSIDs total, 16 per radio (2.4GHz & 5GHz)                                                                                                                                                                                                                                                                                                                                                                                             |
|      | Client Capacity                 | Up to 512 concurrent clients                                                                                                                                                                                                                                                                                                                                                                                                             |
|      | Advanced Wireless Features      | <ul style="list-style-type: none"> <li>• Beamforming</li> <li>• OFDMA</li> <li>• Multi-RU</li> <li>• Preamble puncturing</li> <li>• 4096-QAM</li> <li>• Multilink Operation (MLO)</li> <li>• Target Wake Time (TWT)</li> <li>• Maximal Ratio Combining (MRC)</li> <li>• Space-Time Block Coding (STBC)</li> <li>• Low-density Parity-Check (LDPC)</li> <li>• 802.11 Dynamic Frequency Selection (DFS)</li> <li>• BSS coloring</li> </ul> |
|      | 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                            | <ul style="list-style-type: none"> <li>• Supports VLAN binding based on Interface, SSID, or MAC address</li> <li>• Supports Management VLAN and Dynamic VLAN</li> </ul>                                                                                                                                                                                                                                                                  |
|      | Time Policy                     | <ul style="list-style-type: none"> <li>• Tracks the time that the client connects to Wi-Fi</li> <li>• Supports setting the amount of time for the client to connect to Wi-Fi and the reconnection type after a timeout</li> </ul>                                                                                                                                                                                                        |
|      | Schedule                        | Supports SSID, LED, and Reboot scheduling                                                                                                                                                                                                                                                                                                                                                                                                |

| GWN7674LR Lite                  |                       |                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WLAN Extension</b>           | Bridge                | Yes                                                                                                                                                                                                                                                                                                                                                                    |
|                                 | Extender              | Yes                                                                                                                                                                                                                                                                                                                                                                    |
|                                 | Mesh                  | 2.4 GHz, 2.4 GHz & 5 GHz, 5 GHz                                                                                                                                                                                                                                                                                                                                        |
|                                 | Hotspot 2.0           | Yes                                                                                                                                                                                                                                                                                                                                                                    |
|                                 | Wireless Roaming      | <ul style="list-style-type: none"> <li>• 802.11k, 802.11v, 802.11r</li> <li>• Layer 2 roaming</li> </ul>                                                                                                                                                                                                                                                               |
| <b>Network</b>                  | 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                                                                                                                                                                                                                                                                                                      |
| <b>User Authentication</b>      | 802.1x Authentication | Yes                                                                                                                                                                                                                                                                                                                                                                    |
|                                 | MAC Authentication    | RADIUS-based access control using client MAC addresses as credentials                                                                                                                                                                                                                                                                                                  |
|                                 | PPSK                  | PPSK with or without RADIUS<br>Easy PSK                                                                                                                                                                                                                                                                                                                                |
|                                 | Captive Portal        | Supports RADIUS, Social Login, Vouchers, Password, SAML SSO, and Active Directory authentication                                                                                                                                                                                                                                                                       |
| <b>Security and Maintenance</b> | Encryption            | <ul style="list-style-type: none"> <li>• Open System</li> <li>• OSEN</li> <li>• WPA2-PSK (Personal)</li> <li>• WPA2-802.1x (Enterprise)</li> <li>• WPA3-SAE (Personal)</li> <li>• WPA3-802.1x (Enterprise)</li> <li>• WPA3-OWE (Enhanced Open)</li> <li>• WPA/WPA2, WPA2/WPA3</li> <li>• Unique Security Certificate and Random Default Password per Device</li> </ul> |
|                                 | Firmware Security     | <ul style="list-style-type: none"> <li>• Anti-Hacking Secure Boot</li> <li>• Critical Data and Control Lockdown via Digital Signatures</li> </ul>                                                                                                                                                                                                                      |
|                                 | Forwarding Security   | <ul style="list-style-type: none"> <li>• MAC Filtering</li> <li>• Client Isolation</li> <li>• OS Filtering</li> </ul>                                                                                                                                                                                                                                                  |
|                                 | WIDS                  | <ul style="list-style-type: none"> <li>• Inbound/Outbound Traffic Rules</li> <li>• Rogue AP Detection and Containment</li> <li>• ARP Attack Defense</li> <li>• ND Attack Defense</li> </ul>                                                                                                                                                                            |
|                                 | Management Protocol   | <ul style="list-style-type: none"> <li>• TR-069</li> <li>• SNMP</li> </ul>                                                                                                                                                                                                                                                                                             |
|                                 |                       |                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Service Quality</b>          | QoS                   | 802.11e/WMM, 802.1p, 802.1q, TOS                                                                                                                                                                                                                                                                                                                                       |
| <b>Management Platform</b>      | Local Management      | Local Web UI: Embedded controller which can manage up to 50 local GWN APs                                                                                                                                                                                                                                                                                              |
|                                 | Cloud Management      | <ul style="list-style-type: none"> <li>• GDMS Networking: A free cloud management platform for unlimited GWN APs</li> <li>• GWN Manager: Premise-based software controller for up to 3,000 GWN APs</li> <li>• GWN App: Integrates GDMS Networking and GWN Manager to manage GWN APs via the app</li> </ul>                                                             |

# Package Contents

| GWN7674LR Lite |                           |                                                                                                                                                                                                                         |
|----------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Items | Primary Unit              | 1 × GWN7674LR Lite Wi-Fi 7 Wireless AP                                                                                                                                                                                  |
|                | Manual and License        | 1 × Quick Installation Guide<br>1 × Regulatory Paper                                                                                                                                                                    |
|                | Installation Accessories  | 1 × Base Bracket<br>1 × Mounting Bracket<br>2 × Metal Straps<br>4 × Pan Head Machine Screws (M4 × 10 mm)<br>4 × Cup Head Hexagon Socket Machine Screws with Spring Washers (M5 × 12 mm)<br>4 × Plastic Expansions Bolts |
|                | Interface Waterproof Kits | 1 × Nut Plug<br>1 × SFP Sealing Plug<br>2 × RJ45 Sealing Plugs<br>3 × O-Rings<br>2 × Clamp Nuts                                                                                                                         |

## Ordering Information

| GWN7674LR Lite |                |                                                                                                          |
|----------------|----------------|----------------------------------------------------------------------------------------------------------|
| GWN AP         | GWN7674LR Lite | Long-Range Dual-Band Wi-Fi 7 Access Point, 1 × 2.5 GbE, 1 × SFP, BE7200, 2.4G 4×4:4 and 5G 5×5:4 MU-MIMO |

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