# In-Wall Access Point

## GWN7624

The GWN7624 is an in-wall Wi-Fi access point designed for small-to-medium sized businesses, offices, residential and commercial locations, hotels and more. It provides three Gigabit network ports to provide IP phones, IPTV, computers and similar devices with Ethernet while also providing and uplink Gigabit network port with PoE/PoE+. The GWN7624 offers 2.4G 2×2:2, 5G 4×4:4 MU-MIMO technology and a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. This access point is designed to be mounted in-wall to provide a clean and professional installation that blends into the surrounding environment. To ensure easy installation and management, the GWN7624 uses a controller-less distributed network management design in which the controller is embedded within the product's web user interface. The GWN7624 is also supported by GWN.Cloud and GWN Manager, Grandstream's free cloud and on-premise Wi-Fi management platform. It is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals and 200 concurrent clients per AP, the GWN7624 is an ideal Wi-Fi access point for medium wireless network deployments with medium user density.

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| **Gigabit** | **4x4 MIMO** | **175 meters** | |
| 2.03 Gbps wireless throughput and 4x Gigabit wireline ports | 5GHz 4×4:4 MU-MIMO | Up to 175-meter coverage range | Supports up to 200 concurrent Wi-Fi client devices |
| **QoS** | | **PoE** | |
| Advanced QoS to ensure real-time performance of low-latency applications | Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device | Self power adaptation upon auto detection of PoE or PoE+ | Embedded controller manages up to 50 local GWN APs; GWN.Cloud offers unlimited AP management, & GWN Manager offers on-premise software AP management |

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| **Wi-Fi Standards** | IEEE 802.11 a/b/g/n/ac |
| **Antennas** | Two 5G & two double  frequency  internal antennas<br>2.4GHz, gain 3dBi;<br>5GHz, gain 5dBi |
| **Wi-Fi Data Rates** | **5G:**<br>IEEE 802.11ac: 6.5 Mbps to 1733 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps<br>IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br><br>**2.4G:**<br>IEEE 802.11n: 6.5Mbps to 300Mbps<br>IEEE 802.11b: 1, 2, 5.5, 11 Mbps<br>IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br>*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* |
| **Frequency Bands** | 2.4GHz Radio: 2412 - 2484 MHz<br>5GHz Radio: 5180 - 5825 MHz<br>*Not all frequency bands can be used in all regions* |
| **Channel Bandwidth** | 2.4G: 20 and 40 MHz<br>5G: 20, 40 and 80 MHz |
| **Wi-Fi and System Security** | WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device |
| **MIMO** | 2×2:2 2.4GHz(MIMO)<br>4×4:4 5GHz(MU-MIMO) |
| **Coverage Range** | Up to 175 meters<br>*coverage range can vary based on environment* |
| **Maximum TX Power** | 2.4G: 23dBm<br>5G: 25dBm<br>*Maximum power varies by country, frequency band and MCS rate* |
| **Receiver Sensitivity** | **5G**<br>802.11a: -92dBm @6Mbps, -74dBm @54Mbps;<br>802.11n 20MHz: -74dBm @MCS7; 802.11n 40MHz:-71dBm @MCS7<br>802.11ac 20MHz: -67dBm@MCS8; 802.11ac: HT40:- 63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9<br><br>**2.4G**<br>802.11b: -96dBm@1Mbps, -88dBm@11Mbps;<br>802.11g: -93dBm @6Mbps, -75dBm@54Mbps;<br>802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7 |
| **SSIDs** | 16 SSIDs total, 8 per radio (2.4GHz & 5GHz) |
| **Concurrent Clients** | Up to 200 |
| **Network Interfaces** | 1x 10/100/1000M uplink Ethernet port with PoE/PoE+<br>2x 10/100/1000M Ethernet port with PSE<br>1x 10/100/1000M Ethernet port |
| **Auxiliary Ports** | 1x Reset Pinhole |
| **Mounting** | In-wall  mountable |
| **LEDs** | 1 tri-color LED for device tracking and status indication |
| **Network Protocols** | IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM |
| **QoS** | 802.11e/WMM, VLAN, TOS |
| **Network Management** | Embedded controller can manage up to 50 local GWN APs<br>GWN.Cloud offers a free cloud management platform for unlimited GWN APs<br>GWN Manager offers premise-based software controller for up to 3,000 GWN APs |
| **Power and Green Energy Efficiency** | Support 802.3az<br>PoE 802.3af/ 802.3at;<br>PSE Maximum Output Per Port: 6W; Maximum Power Consumption: 25W |
| **Environmental** | Operation: -10°C to 50°C<br>Storage: -30°C to 60°C<br>Humidity: 5% to 95% Non-condensing |
| **Physical** | Unit Dimension: 135mm(L)x86mm(W)x38.5mm(H)<br>Entire Package Dimension: 176mm(L)x118.5mm(W)x65mm(H) |
| **Package Content** | GWN7624 In-Wall Wireless AP, 4x Screws(KB 3.5*26) , Quick Installation Guide |
| **Compliance** | FCC, CE, RCM, IC, UKCA |

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