



## In-Wall Wi-Fi 6 Access Point

### GWN7661

The GWN7661 is an in-wall 802.11ax Wi-Fi 6 access point designed for small-to-medium sized businesses, offices, residential and commercial locations, hotels and more. It offers dual-band 2x2:2 MU-MIMO technology as well as a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. Wi-Fi 6 technology supports the modern generation of dense environments where many users and many devices require consistent and reliable Wi-Fi connections at higher speeds. The GWN7661 provides three Gigabit network ports to provide IP phones, IPTV, computers and similar devices with Ethernet while also providing an uplink Gigabit network port with PoE/PoE+. It supports the access of wired terminals and also meet wireless coverage requirements. As an in-wall access point, it provides a clean and professional installation that blends into the surrounding environment. To ensure easy installation and management, the GWN7661 uses a controller-less distributed network management design in which the controller is embedded within the product's web user interface. The GWN7661 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 500+ concurrent clients per AP, the GWN7661 is an ideal Wi-Fi access point for medium wireless network deployments with medium user density.



1.77 Gbps wireless throughput and 4x Gigabit wireline ports



Dual-band 2x2:2 MU-MIMO with DL/UL OFDMA technology



Supports up to 500+ concurrent Wi-Fi client devices



Self power adaptation upon auto detection of PoE or 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



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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|--|---|
| <b>Wi-Fi Standards</b>                   | IEEE 802.11 a/b/g/n/ac/ax   |
| <b>Antennas</b>                          | 4 single band internal antennas<br>2.4GHz x 2, gain 3.30dBi, gain 3.51dBi<br>5GHz x 2: gain 4.79dBi, gain 5.37dBi   |
| <b>Wi-Fi Data Rates</b>                  | <b>5G:</b><br>IEEE 802.11ax: 7.3 Mbps to 1201 Mbps<br>IEEE 802.11ac: 6.5 Mbps to 867 Mbps<br>IEEE 802.11n: 6.5Mbps to 300Mbps<br>IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br><b>2.4G:</b><br>IEEE 802.11ax: 7.3 Mbps to 573.5 Mbps<br>IEEE 802.11n: 6.5Mbps to 300Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps<br>IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br><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> |
| <b>Frequency Bands</b>                   | 2.4GHz Radio: 2412 - 2484 MHz<br>5GHz Radio: 5180 - 5825 MHz<br><i>*Not all frequency bands can be used in all regions</i>  |
| <b>Channel Bandwidth</b>                 | 2.4G: 20 and 40 MHz<br>5G: 20, 40 and 80 MHz  |
| <b>Wi-Fi and System Security</b>         | 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   |
| <b>MIMO</b>                              | 2x2:2 2.4GHz<br>2x2:2 5GHz  |
| <b>Coverage Range</b>                    | Up to 100 meters<br><i>*coverage range can vary based on environment</i>  |
| <b>Maximum TX Power</b>                  | 2.4G:20dBm (100 Milliwatts)<br>5G:23dBm (200Milliwatts)   |
| <b>Receiver Sensitivity</b>              | <b>5G</b><br>802.11a: -92dBm @6Mbps, -74dBm @54Mbps;<br>802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7;<br>802.11ac 20MHz: -67dBm@MCS8; 802.11ac: 40MHz:- 63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9;<br>802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11;802.11ax 80MHz: -56dBm @MCS11<br><b>2.4G</b><br>802.11b: -96dBm@1Mbps, -88dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps;<br>802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7<br>802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11   |
| <b>SSIDs</b>                             | 32 SSIDs total, 16 per radio (2.4GHz & 5GHz)  |
| <b>Concurrent Clients</b>                | Up to 500+  |
| <b>Network Interfaces</b>                | 1x 10/100/1000M uplink Ethernet port with PoE/PoE+<br>2x 10/100/1000M Ethernet ports with PSE<br>1x 10/100/1000M Ethernet port  |
| <b>Auxiliary Ports</b>                   | 1x Reset Pinhole  |
| <b>Mounting</b>                          | In-wall mountable   |
| <b>LEDs</b>                              | 1 tri-color LED for device tracking and status indication   |
| <b>Network Protocols</b>                 | IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM   |
| <b>QoS</b>                               | 802.11e/WMM, VLAN, TOS  |
| <b>Network Management</b>                | 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  |
| <b>Power and Green Energy Efficiency</b> | Support 802.3az<br>PoE 802.3af/ 802.3at;<br>PSE Maximum Output Per Port: 6W; Maximum Power Consumption: 25W   |
| <b>Environmental</b>                     | Operation: -10°C to 50°C<br>Storage: -30°C to 60°C<br>Humidity: 5% to 95% Non-condensing  |
| <b>Physical</b>                          | Unit Dimension: 135mm(L)x86mm(W)x38.5mm(H); Unit Weight: 185g<br>Entire Package Dimension: 176mm(L)x118.5mm(W)x65mm(H); Entire Package Weight: 400g   |
| <b>Package Content</b>                   | GWN7661 Wi-Fi 6 In-Wall Wireless AP, Mounting Kits , Quick Installation Guide   |
| <b>Compliance</b>                        | FCC, CE, RCM, IC, UKCA  |