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## In-Wall Wi-Fi 6 Access Point GWN7661E

The GWN7661E is an in-wall AX3000 Wi-Fi 6 access point designed for offices, hotels, homes, apartments and more. It provides dual-band Wi-Fi 6, a sophisticated antenna design for up to 3Gbps wireless speeds, 100-meter coverage range, 2x2:2 (2.4G) and 3x3:2 (5G) MU-MIMO technology. The GWN7661E provides three Gigabit network ports to provide IP phones, TVs, computers and similar devices with Ethernet while also providing an uplink Gigabit network port with PoE/PoE+. This Wi-Fi 6 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 GWN7661E includes a built-in controller embedded within the product's web user interface. The GWN7661E can also be managed by GDMS and GWN Manager, Grandstream's free cloud and on-premise network management platforms. 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 256 concurrent clients per AP, the GWN7661E is an ideal Wi-Fi access point for in-wall installations and small-to-medium businesses deployments.



3 Gbps wireless throughput and 4x Gigabit wireline ports



2x2:2 (2.4G) and 3x3:2 (5G) MU-MIMO with OFDMA technology



Supports up to 256 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; GDMS offers unlimited AP management, GWN Manager offers on-premise software AP management

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Wi-Fi Standards</b>                   | IEEE 802.11 a/b/g/n/ac/ax                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Antennas</b>                          | 2x dual-band internal antennas, 1x 5G internal antenna<br>Antenna1, 2.4G gain 3.0dBi, 5G gain 5.0dBi<br>Antenna2, 2.4G gain 2.5dBi, 5G gain 4.5dBi<br>5G Antenna gain 4.5dBi                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Wi-Fi Data Rates</b>                  | <b>5G:</b><br>IEEE 802.11ax: 7.3 Mbps to 2402 Mbps<br>IEEE 802.11ac: 6.5 Mbps to 1732 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<br>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 - 2483.5 MHz<br>5GHz Radio: 5150 - 5895 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, 80 and 160 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>3x3:2 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: 24dBm<br>5G: 26dBm<br><i>*Maximum power varies by country, frequency band and MCS rate</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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>MCS11; 802.11ax 160MHz: -52dBm@ 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>                | 256                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Network Interfaces</b>                | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Auxiliary Ports</b>                   | 1x Reset Pinhole, 1x Kensington lock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <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>GDMS (Networking) offers a free cloud management platform for unlimited GWN devices<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>The maximum output of all PSE ports is 12W; Maximum Power Consumption: 25W                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Environmental</b>                     | Operation: 0°C to 45°C<br>Storage: -30°C to 60°C<br>Humidity: 5% to 95% Non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Physical</b>                          | Unit Dimension: 135mm(L) x 86mm(W) x 38.5mm(H); Unit Weight: 241g<br>Entire Package Dimension: 176mm(L) x 118.5mm(W) x 65mm(H); Entire Package Weight: 361g                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Package Content</b>                   | GWN7661E Wi-Fi 6 In-Wall Wireless AP, Mounting Kits, Quick Installation Guide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Compliance</b>                        | FCC, CE, RCM, IC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |