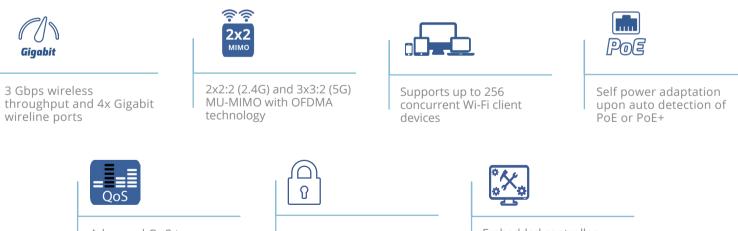# In-Wall Wi-Fi 6 Access Point
GWN7661E

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

Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
Antennas	2x dual-band internal antennas,1x 5G internal antenna Antenna1, 2.4G gain 3.0dBi, 5G gain 5.0dBi Antenna2, 2.4G gain 2.5dBi, 5G gain 4.5dBi 5G Antenna gain 4.5dBi
Wi-Fi Data Rates	**5G:** IEEE 802.11ax: 7.3 Mbps to 2402 Mbps IEEE 802.11ac: 6.5 Mbps to 1732 Mbps IEEE 802.11n: 6.5Mbps to 300Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps **2.4G:** IEEE 802.11ax: 7.3 Mbps to 573.5 Mbps IEEE 802.11n: 6.5Mbps to 300Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps *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 - 2483.5 MHz 5GHz Radio: 5150 - 5895 MHz *Not all frequency bands can be used in all regions*
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80 and 160 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 3×3:2 5GHz
Coverage Range	Up to 100 meters *coverage range can vary based on environment*
Maximum TX Power	2.4G: 24dBm 5G: 26dBm *Maximum power varies by country, frequency band and MCS rate*
Receiver Sensitivity	**5G** 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7; 802.11ac 20MHz: -67dBm@MCS8; 802.11ac: 40MHz:- 63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9; 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11;802.11ax 80MHz: -56dBm @MCS11 MCS11;802.11ax 160MHz: -52dBm@ MCS11 **2.4G** 802.11b: -96dBm@1Mbps, -88dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7 802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	256
Network Interfaces	1x 10/100/1000M uplink Ethernet port with PoE/PoE+ 2x 10/100/1000M Ethernet port with PSE 1x 10/100/1000M Ethernet port
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
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 GDMS (Networking) offers a free cloud management platform for unlimited GWN devices GWN Manager offers premise-based software controller for up to 3,000 GWN APs
Power and Green Energy Efficiency	Support 802.3az PoE 802.3af/ 802.3at; The maximum output of all PSE ports is 12W; Maximum Power Consumption: 25W
Environmental	Operation: 0°C to 45°C Storage: -30°C to 60°C Humidity: 5% to 95% Non-condensing
Physical	Unit Dimension: 135mm(L) x 86mm(W) x 38.5mm(H); Unit Weight: 241g Entire Package Dimension: 176mm(L) x 118.5mm(W) x 65mm(H); Entire Package Weight: 361g
Package Content	GWN7661E Wi-Fi 6 In-Wall Wireless AP, Mounting Kits , Quick Installation Guide
Compliance	FCC, CE, RCM, IC

09.2024.v2