



High-Performance AX6000 Wi-Fi 6 Access Point

GWN7664E

The GWN7664E is a powerful, enterprise-grade high-performance 802.11ax Wi-Fi 6 access point, ideal for small-to-medium sized businesses, multiple floor buildings, residential settings and commercial locations. It offers dual-band 4x4:4 MU-MIMO with OFDMA technology and a sophisticated internal antenna design for stronger anti-interference, more stable connection, maximum network throughput of upto 6Gbps and expanded Wi-Fi coverage range. The GWN7664E is supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform that makes managing your network or several networks across multiple locations easier than ever before. It also uses a controller-less network management architecture in which the controller is embedded within the product's web user interface for easy administration of locally deployed Wi-Fi APs. The GWN7664E 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, 512 concurrent clients and dual 2.5 Gigabit network ports with PoE+, the GWN7664E is an ideal Wi-Fi access point for business-grade wireless network deployments with medium-to-high user density.



6Gbps aggregate wireless throughput, 5Gbps aggregate wired throughput



Dual-band 4x4:4 MU-MIMO with OFDMA technology



Up to 175-meter coverage range



Support 512 concurrent Wi-Fi client devices



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+



Embedded controller manages up to 50 local GWN APs; GWN.Cloud 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	8 individual internal antennas, 4 per band 2.4GHz, gain 3.5dBi 5 GHz, gain 4.5dBi
Wi-Fi Data Rates	5G: IEEE 802.11ax: 7.3 Mbps to 4804 Mbps IEEE 802.11ac: 6.5 Mbps to 3467 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 2.4G: IEEE 802.11ax: 7.3 Mbps to 1147 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps <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>
Frequency Bands	2.4GHz Radio: 2400 - 2483.5 MHz 5GHz Radio: 5150 - 5895 MHz <i>*Not all frequency bands can be used in all regions</i>
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80 and 160 MHz
Wi-Fi and System Security	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
MU-MIMO	4x4:4 2.4GHz 4x4:4 5GHz
Coverage Range	Up to 175 meters <i>*coverage range can vary based on environment</i>
Maximum TX Power	5G: 25.5dBm 2.4G: 26.5dBm <i>*Maximum power varies by country, frequency band and MCS rate</i>
Receiver Sensitivity	2.4G 802.11b: -97dBm@1Mbps, -89dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 5G 802.11a: -93dBm @6Mbps, -75dBm @54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7 802.11ac 20MHz: -70dBm@MCS8; 802.11ac: HT40:- 66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -61dBm @MCS11;802.11ax 80MHz: -58dBm @MCS11; 802.11ax 160MHz:-55dBm @MCS11;
SSIDs	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
Concurrent Clients	512
Network Interfaces	2 x 2.5G Ports
Auxiliary Ports	1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kits included
LEDs	3 tri-color LEDs 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 GWN.Cloud offers a free cloud management platform for unlimited GWN APs GWN Manager offers premise-based software controller for up to 3,000 GWN APs
Power and Green Energy Efficiency	PoE 802.3at; Maximum Power Consumption: 21W
Environmental	Operation: 0°Cto 50°C Storage: -10°C to 60°C Humidity: 10% to 95% Non-condensing
Physical	Unit Dimension: 205.3mmx205.3mmx45.9mm; Unit Weight: 0.714Kg Entire Package Dimension: 258mmx247mmx86mm; Entire Package Weight: 1.06Kg
Package Content	GWN7664E 802.11ax Wireless AP, Mounting Kits, Quick Start Guide
Compliance	FCC, CE, RCM, IC