



# 802.11ax 4x4:4 Wi-Fi 6 Access Point

## GWN7664

The GWN7664 is a powerful, enterprise-grade 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 MUMIMO with DL/UL OFDMA technology and a sophisticated internal antenna design for stronger anti-interference, more stable connection, maximum network throughput and expanded Wi-Fi coverage range. The GWN7664 is supported by GWN.Cloud and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform that and 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 GWN7664 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 Gigabit network ports with PoE/PoE+, the GWN7664 is an ideal Wi-Fi access point for business-grade wireless network deployments with medium-to-high user density.



3.55Gbps aggregate wireless throughput, 3.5Gbps aggregate wired throughput



Dual-band 4x4:4 MU-MIMO with DL/UL 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 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

<b>Wi-Fi Standards</b>	IEEE 802.11 a/b/g/n/ac/ax
<b>Antennas</b>	8 individual internal antennas, 4 per band 2.4GHz, gain 3dBi 5 GHz, gain 4dBi
<b>Wi-Fi Data Rates</b>	<b>5G:</b> IEEE 802.11ax: 8 Mbps to 2402 Mbps IEEE 802.11ac: 6.5 Mbps to 1733 Mbps IEEE 802.11n: 6.5Mbps to 600Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps <b>2.4G:</b> IEEE 802.11ax: 8 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>
<b>Frequency Bands</b>	2.4GHz Radio: 2412 - 2484 MHz 5GHz Radio: 5180 - 5825 MHz <i>*Not all frequency bands can be used in all regions</i>
<b>Channel Bandwidth</b>	2.4G: 20 and 40 MHz (x4) 5G: 20, 40 and 80 MHz (x4) or 160MHz (x2)
<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>	4x4:4 2.4GHz 4x4:4 5GHz
<b>Coverage Range</b>	Up to 175 meters <i>*coverage range can vary based on environment</i>
<b>Maximum TX Power</b>	5G: 25dBm 2.4G: 26dBm <i>*Maximum power varies by country, frequency band and MCS rate</i>
<b>Receiver Sensitivity</b>	<b>2.4G</b> 802.11b: -99dBm@1Mbps, -91dBm@11Mbps; 802.11g: -94dBm @6Mbps, -78dBm@54Mbps; 802.11n 20MHz: -75dBm @MCS7; 802.11n 40MHz: -71dBm @MCS7; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -63dBm @MCS11 <b>5G</b> 802.11a: -95dBm @6Mbps, -77dBm @54Mbps; 802.11n 20MHz: -74dBm @MCS7; 802.11n 40MHz: -71dBm @MCS7 802.11ac 20MHz: -70dBm@MCS8; 802.11ac: HT40:- 66dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ax 20MHz: -64dBm @ MCS11; 802.11ax 40MHz: -62dBm @MCS11;802.11ax 80MHz: -59dBm @MCS11
<b>SSIDs</b>	32 SSIDs total, 16 per radio (2.4GHz & 5GHz)
<b>Concurrent Clients</b>	512
<b>Network Interfaces</b>	1x 1G Port and 1x 2.5G Port, support 3.5Gbps aggregate wire throughput
<b>Auxiliary Ports</b>	1x Reset Pinhole, 1x Kensington lock
<b>Mounting</b>	Indoor wall mount or ceiling mount, kits included
<b>LEDs</b>	1 tri-color LEDs 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 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
<b>Power and Green Energy Efficiency</b>	PoE 802.3af/ 802.3at; Maximum Power Consumption: 17W
<b>Environmental</b>	Operation: 0°C to 50°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
<b>Physical</b>	Unit Dimension: 205.3mm(L)x205.3mm(W)x405.9mm(H); Unit Weight: 0.714Kg Entire Package Dimension: 258x247x86mm; Entire Package Weight: 1.06Kg
<b>Package Content</b>	GWN7664 802.11ax Wireless AP, Mounting Kits, Quick Start Guide
<b>Compliance</b>	FCC, CE, RCM, IC