



Dual-band Wi-Fi 7 access point

GWN7670

The GWN7670 is a newly produced, enterprise-grade Wi-Fi 7 access point, ideal for small and medium-sized businesses building next-generation Wi-Fi networks. It offers dual-band 2x2:2 MIMO with DL/UL OFDMA technology and a sophisticated antenna design for maximum network performance and extended Wi-Fi coverage range. The GWN7670 improves bandwidth utilization and anti-interference capabilities with multi-RU and Preamble Puncturing technology. With 4096 QAM modulation, Wi-Fi 7 achieves a significant increase in data transfer rates. MLO technology optimizes spectrum resource utilization to ensure a smooth experience for every user. For easy installation and management, the GWN7670 utilizes a distributed network management design where the controller is integrated within the product's web user interface. The GWN7670 is also compatible with GDMS Networking and GWN Manager, Grandstream's local and cloud network management platform. It's the ideal Wi-Fi access point for Voice over Wi-Fi deployments and offers seamless connectivity with Grandstream's Wi-Fi-enabled IP phones. With support for advanced QoS, low-latency real-time applications, mesh networking, captive portals, Bluetooth Low Energy 5.3 BT location, 256 simultaneous clients per access point, and two 2.5 Gigabit Ethernet ports with PoE+, the GWN7670 is an ideal Wi-Fi access point for medium-sized wireless network deployments with medium to high user density.



Aggregate wireless throughput of 3.6 Gbps, Aggregate wired throughput of 5 Gbps



Integrated Wi-Fi 7 and 2x2:2 MIMO with MLO, 4KQAM, MRU and break preamble technology



Coverage range of up to 175 meters



It allows 256 concurrent Wi-Fi client devices



Advanced QoS to guarantee real-time performance of low-latency applications



Secure boot anti-hacking and critical data/control lock using digital signatures, unique security certificate/random default password per device



Automatic power adaptation after automatic PoE+ detection



The integrated controller manages up to 50 APs GWN Local; GDMS offers unlimited AP management, GWN Manager offers management of local software AP

Wi-Fi standards IEEE 802.11 a/b/g/n/ac/ax/be	
Antennas	5 single-frequency antennas 2.4 GHz x 2, 3.5dBi gain 5 GHz x 2, 5.5dBi gain BT Gain 3.5dBi
Wi-Fi data rates	5G: IEEE 802.11be: up to 2882 Mbps IEEE 802.11ax: 7.3 Mbps to 2402 Mbps IEEE 802.11ac: 6.5 Mbps to 1732 Mbps IEEE 802.11n: 6.5 Mbps to 600 Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 2.4G: IEEE 802.11be: Up to 688 Mbps IEEE 802.11ax: 7.3 Mbps to 574 Mbps IEEE 802.11n: 6.5Mbps to 300 Mbps IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps <i>*Actual performance may vary depending on many factors, including environmental conditions, distance between devices, radio interference in the operating environment, and the combination of devices on 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	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, secure boot anti-hacking and critical data/control lock using digital signatures, unique security certificate and random default password per device
MIME	2x2:2 2.4GHz 2x2:2 5GHz
Coverage range	Up to 175 meters <i>*Coverage range may vary depending on the environment</i>
Maximum transmission power	5G: 26dBm 2.4G: 26dBm <i>*Maximum power varies depending on the country, frequency band, and MCS rate</i>
Receptor 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 802.11be 20MHz: -59dBm @MCS13; 802.11be 40MHz: -56dBm @MCS13; 802.11be 80MHz: -54dBm @MCS13; 802.11be 160MHz: -52dBm @MCS13 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 802.11be 20MHz: -65dBm @MCS13; 802.11be 40MHz: -62dBm @MCS13;
SSIDs 32 SSIDs in total, 16 per radio (2.4 GHz and 5 GHz)	
Concurrent customers 256	
Network Interfaces 2 x 2.5G RJ45 Ethernet ports	
Auxiliary ports: 1x reset hole, 1x Kensington lock	
Bluetooth® Bluetooth Low Energy 5.3	
Mounting: Wall or ceiling mount for indoor use, kits included	
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	The integrated controller can manage up to 50 local GWN APs GDMS Networking offers a free cloud management platform for unlimited GWN APs GWN Manager offers a local software controller for up to 3000 GWN APs
Green energy and energy efficiency	PoE/PoE+ 802.3af/at; Maximum power consumption: 14.5W
Suitable climatic conditions	Operating temperature: 0°C to 45°C Storage: -30°C to 60°C Humidity: 10% to 90% non-condensing
Physical characteristics	Unit dimensions: 185mm x 185mm x 44.5mm; Unit weight: 527g; Full package dimensions: 228.5mm x 220mm x 79mm; Total package weight: 877g
Package contents: Wi-Fi 7 wireless AP GWN7670, mounting kits, quick start guide	
Compliant with FCC, CE, RCM, IC	