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CONNECTING THE WORLD



Wi-Fi 6 access point with integrated PoE switch GWN7604

The GWN7604 is a compact AX3000 Wi-Fi 6 access point designed for small businesses, hotels, and home offices. It offers versatility through four Gigabit Ethernet ports, including an uplink port that can receive PoE/PoE+ to power the access point and two ports with PSE that can provide PoE and a network connection to other devices. The GWN7604 features dual-band 2.4G 2x2:2 and 5G 3x3:2 MU-MIMO technology and a sophisticated antenna design to support up to 256 simultaneous clients and a coverage range of up to 100 meters. This Wi-Fi access point can be easily installed and managed using GDMS Networking and GWN Manager, Grandstream's cloud and on-premises network management platforms. With support for advanced QoS, low-latency real-time applications, Mesh networking, captive portals, 3 Gbps wireless throughput, and four Gigabit network ports, the GWN7604 is the ideal Wi-Fi access point for small to medium-sized deployments that require flexibility.



Wireless throughput
aggregate of 3 Gbps, 4x Gigabit
wired ports



Coverage range of up to 100
meters



Automatic power adaptation after
automatic detection of PoE/
PoE+ and PSE



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



Allows up to 256
Wi-Fi client devices
simultaneous



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

IEEE 802.11a/b/g/n/ac/ax Wi-Fi standards	
Antennas	2 internal dual-band antennas, 1 internal 5G antenna (Antenna1), 2.4G gain 3.0 dBi, 5G gain 3.5 dBi Antenna2, 2.4G gain of 3.5 dBi, 5G gain of 3.0 dBi 5G antenna, 4.5 dBi gain
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 <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	2.4 GHz Radio: 2412 – 2483.5 MHz 5GHz Radio: 5150 - 5895 MHz <i>*Not all frequency bands can be used in all regions. The 5150-5350 MHz band is restricted to indoor use only in all EU member states.</i>
Channel bandwidth	2.4G: 20 and 40 MHz 5G: 20, 40, 80, and 160 MHz
System security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES); WPA3, anti-hacking boot and critical data locking/ Control through digital signatures, a unique security certificate, and a random default password per device
MU-MIMO	2×2:2 2.4GHz 3×3:2 5GHz
Coverage range	Up to 100 meters <i>*Coverage range may vary depending on the environment.</i>
Maximum transmission power	5G: 26dBm 2.4G: 24dBm <i>*Maximum power varies depending on the country, frequency band, and MCS tariff</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;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 in total, 16 per radio (2.4GHz and 5GHz)	
Concurrent Clients 256	
Network interfaces	1 x 10/100/1000M Uplink Ethernet Port with POE/POE+ 2 x 10/100/1000M Ethernet Port with PSE 1 x 10/100/1000M Ethernet Port
Auxiliary ports: 1x reset hole, 1x Kensington lock	
Mounting: Indoor wall mounting, 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 access points. GWN.Manager offers an installation-based software controller for up to 3000 GWN access points.
Nutrition and Efficiency Clean Energy	PoE 802.3at/ 802.3at Maximum PSE output: 12W total power budget for LAN2/LAN3 Maximum power consumption: 7.5 W (excluding PoE output)
Temperature and Humidity	Operating temperature: 0°C to 45°C Storage: -10°C to 60°C Humidity: 10% to 90% non-condensing
Physical Specifications	Dimensions: 135 x 115 x 30mm; Unit weight: 253g Dimensions of the complete package: 171 x 140 x 33mm; Weight of the complete package: 358g
Package Contents: GWN7604 AP, Mounting Kits, Quick Installation Guide	
Compliant with FCC, CE, RCM, IC	