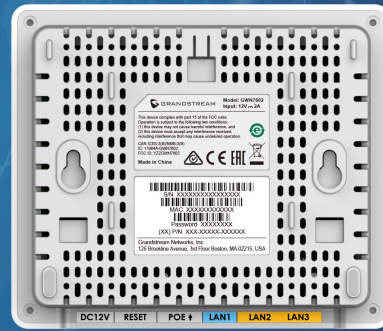# Wi-Fi 6 Access Point with Integrated PoE Switch

GWN7604

The GWN7604 is a compact AX3000 Wi-Fi 6 access point designed for small businesses, hotels, and home offices. It provides versatility through four Gigabit ethernet ports, including one 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 offers dual-band 2.4G 2x2:2 and 5G 3x3:2 MU-MIMO technology and a sophisticated antenna design to support 256 concurrent clients and up to 100-meter coverage range. This Wi-Fi access point can be easily installed and managed using GDMS Networking and GWN Manager, Grandstream's cloud and on-premise network management platforms. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, 3Gbps 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.

Gigabit 3Gbps aggregate wireless throughput, 4x Gigabit wireline ports	**100 meters** Up to 100 meters coverage range	**PoE** Self power adaptation upon auto detection of PoE/PoE+ and PSE
Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device	Supports up to 256 concurrent Wi-Fi client devices	**QoS** Advanced QoS to ensure real-time performance of low-latency applications

Wi-Fi Standards	IEEE 802.11a/b/g/n/ac/ax
Antennas	2 x dual-band internal antennas,1x 5G internal antenna Antenna1, 2.4G gain 3.0dBi, 5G gain 3.5dBi Antenna2, 2.4G gain 3.5dBi, 5G gain 3.0dBi 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 - 2484 MHz 5GHz Radio: 5150 - 5250 MHz *Not all frequency bands can be used in all regions. The band 5150-5350 MHz is restricted to indoor use only in all EU states.*
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 secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
MU-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: 20dBm (100 Milliwatts) 5G: 23dBm (200 Milliwatts) *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;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 and 5 ghz)
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 Pinhole, 1x Kensington lock
Mounting	Indoor wall mount, kits included
LEDs	1x 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 GDMS Networking 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 802.3af/ 802.3at PSE max output: Total 12W power budget for LAN2/LAN3 Maximum Power Consumption: 7.5W (Excluding PoE Output)
Environmental	Operation: 0°C to 45°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Physical	Unit Dimension:135 x 115 x 30mm; Unit Weight: 253g Entire Package Dimension: 171 x 140 x 33mm; Entire Package Weight: 358g
Package Content	GWN7604 AP, Mounting Kits, Quick Installation Guide
Compliance	FCC, CE, RCM, IC