GRANDSTREAM
CONNECTING THE WORLD



802.11ac Wave-2 Wi-Fi Access Point

GWN7603

The GWN7603 is a compact Wi-Fi 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 GWN7603 offers dual-band 2x2:2 MU-MIMO technology and a sophisticated antenna design to support 100+ concurrent clients and up to 100-meter coverage range. This Wi-Fi access point can be easily installed and managed using GWN.Cloud (now integrated with GDMS) 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, 1.27Gbps wireless throughput, and four Gigabit network ports, the GWN7603 is the ideal Wi-Fi access point for small-to-medium sized deployments that require flexibility.

Gigabit

1.27Gbps aggregate wireless throughput, 1x Gigabit and 3x Gigabit wireline speed

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

Support up to 100+ 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 (Wave-2)
Antennas	2 dual band internal antennas. Antenna 1 - 2.4GHz: gain 3.0dBi, 5GHz: gain 3.5dBi Antenna 2 - 2.4GHz: gain 3.5dBi, 5GHz: gain 3.0dBi
Wi-Fi Data Rates	IEEE 802.11ac: 6.5 Mbps to 867Mbps IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n: 6.5Mbps to 300Mbps; 400Mbps with 256-QAM on 2.4GHz IEEE 802.11b: 1, 2, 5.5, 11Mbps 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	2.4 GHz Radio: 2412 – 2484 MHz 5 GHz Radio: 5150-5250 MHz, 5250-5350 MHz, 5470-5725 MHz, 5725-5850 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 40MHz 5G: 20, 40, 80MHz
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, 2×2:2 5GHz
Coverage Range	Up to 100 meters **Coverage range can vary based on environment*
Maximum TX Power	5G: 22dBm 2.4G: 24dBm **Maximum power varies by country, frequency band, and MCS rate*
Receiver Sensitivity	**2.4G:** 802.11b: -96dBm@1Mbps, -88dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps; 802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7 **5G:** 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11ac 20MHz: -67dBm@MCS8; 802.11ac: HT40:-63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9
SSIDs	16 SSIDs total, 8 per radio (2.4ghz and 5 ghz)
Concurrent Clients	100+
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 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 802.3af/ 802.3at PSE max output: Total 12W power budget for LAN2/LAN3 Maximum Power Consumption: 6.5W (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: 215g Entire Package Dimension: 171 x 140 x 33mm; Entire Package Weight: 295g
Package Content	GWN7603 AP, Mounting Kits, Quick Installation Guide
Compliance	FCC, CE, RCM, IC