GRANDSTREAM
CONNECTING THE WORLD

GWN7600

Mid-Tier 802.11ac Wave-2 WiFi Access Point

The GWN7600 is a mid-tier 802.11ac Wave-2 WiFi access point for small to medium sized businesses, multiple floor offices, commercial locations and branch offices. It offers dual-band 2x2:2 MU-MIMO with beam-forming technology and a sophisticated antenna design for maximum network throughput and expanded Wi-Fi coverage range. To ensure easy installation and management, the GWN7600 uses a controller-less distributed network management design in which the controller is embedded within the product's web user interface. This allows each access point to manage a network of up to 30 GWN76xx series APs independently without needing separate controller hardware/software and without a single point-of-failure. This wireless access point can be paired with any third party routers as well as Grandstream GWN series routers. With support for advanced QoS, low-latency real-time applications, 450+ concurrent client devices per AP and dual Gigabit network ports with PoE, the GWN7600 is an ideal WiFi access point for medium wireless network deployments with medium-to-high user density.

Gigabit
1.27Gbps wireless throughput and 2x Gigabit wireline ports

2x2 MIMO
Dual-band 2x2:2 MU-MIMO with beam-forming technology

PoE
Support 802.3af Power-over-Ethernet (PoE)

Support 450+ concurrent WiFi client devices

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

165 meters
Up to 165-meter coverage range

Anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate/random default password per device

Embedded controller allows GWN7600 to auto-discover, auto-provision and manage up to 30 GWN7600s in a network

Specifications

WiFi Standards	IEEE 802.11 a/b/g/n/ac (Wave-2)
Antennas	2x 2.4 GHz, gain 3 dBi, internal antenna 2x 5 GHz, gain 3 dBi, internal antenna
WiFi Data Rates	IEEE 802.11ac: 6.5 Mbps to 867 Mbps 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, 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 : 2.400 - 2.4835 GHz 5GHz radio: 5.150 - 5.250 GHz, 5.725 - 5.850 GHz (FCC, IC, RCM)
Channel Bandwidth	2.4G: 20 and 40 MHz 5G: 20,40 and 80 MHz
WiFi and System Security	WEP, WPA/WPA2-PSK, WPA/WPA2 Enterprise (TKIP/AES), anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device
MIMO	2x2:2 2.4GHz (MIMO), 2x2:2 5GHz (MU-MIMO)
Coverage Range	Up to 541 ft. (165 meters) *coverage range can vary based on environment*
Maximum TX Power	5G: 22dBm (FCC) / 20dBm (CE) 2.4G: 22dBm (FCC) / 17dBm (CE) *Maximum power varies by country, frequency band and MCS rate*
Receiver Sensitivity	**2.4G** 802.11b:-99dBm @1Mbps,-91dBm @11Mbps;802.11g:-93dBm @6Mbps,-75dBm @54Mbps; 80.11n 20MHz:-72dBm @MCS7;802.11n 40MHz:-69dBm @MCS7 **5G** 802.11a:-91dBm @6Mbps,-74dBm @54Mbps;802.11ac 20MHz:-67dBm @MCS8;802.11ac HT40:-63dBm @MCS9;802.11ac 80MHz:-60dBm @MCS9
SSIDs	16 SSIDs per radio
Concurrent Clients	450+
Network Interfaces	2x autosensing 10/100/1000 Base-T Ethernet Ports
Auxiliary Ports	1x USB 2.0 port, 1x Reset Pinhole, 1x Kensington lock
Mounting	Indoor wall mount or ceiling mount, kits included
LEDs	3 tri-color LEDs for device tracking and status indication
Network Protocols	IPv4, 802.1Q, 802.1p, 802.1x, 802.11e/WMM
QoS	802.11e/WMM, VLAN, TOS
Network Management	Embedded controller in GWN7600 allows it to auto-discover, auto-provision and manage up to 30 GWN7600s in a network
Power and Green Energy Efficiency	DC Input: 24VDC/1A Power over Ethernet (802.3af) compliant Maximum Power Consumption:13.8W
Environmental	Operation: 0°C to 50°C Storage: -10°C to 60°C Humidity: 10% to 90% Non-condensing
Physical	Unit Dimension: 180.4mm x 180.4mm x 40.8mm Unit+Mounting Kits Dimension: 180.4mm x 180.4mm x 48.8mm Entire Package Dimension: 228.5 x 220 x 79mm; Entire Package Weight: 854g
Package Content	GWN7600 802.11ac Wave-2 Wireless AP, Mounting Kits, Quick Start Guide
Compliance	FCC, CE, RCM, IC