Mid-Tier 802.11ac Wave-2 Wi-Fi Access Point

GWN7600

The GWN7600 is a mid-tier 802.11ac Wave-2 Wi-Fi 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 Wi-Fi 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)
- **QoS**: Advanced QoS to ensure real-time performance of low-latency applications
- **coverage range**: 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
- **Controller**: Embedded controller can manage up to 30 local GWN series APs; GWN.Cloud offers unlimited AP management; GWN Manager offers premise-based software controller

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<td><strong>Wi-Fi Standards</strong></td>
<td>IEEE 802.11 a/b/g/n/ac (Wave-2)</td>
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| **Antennas** | 2x 2.4 GHz, gain 3 dBi, internal antenna  
2x 5 GHz, gain 3 dBi, internal antenna |
| **Wi-Fi 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 |
| **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 |
| **Wi-Fi 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: 2.4GHz (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 @MC57;802.11n 40MHz:-69dBm @MC57  
5G: 802.11a:-91dBm @6Mbps,-74dBm @54Mbps;802.11ac 20MHz:-67dBm @MC58;802.11ac 40MHz:-63dBm @MC59  
HT40:-63dBm @MC59;802.11ac 80MHz:-60dBm @MC59 |
| **SSIDs** | 32 SSIDs total, 16 per radio (2.4ghz and 5 ghz) |
| **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 can manage up to 30 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** | 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  
Enterprise 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 |

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*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*