



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 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 256 concurrent Wi-Fi client devices



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

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| 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 <i>*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</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 band 5150-5350 MHz is restricted to indoor use only in all EU 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 secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device |
| MU-MIMO | 2x2:2 2.4GHz 3x3:2 5GHz |
| Coverage Range | Up to 100 meters <i>*Coverage range can vary based on environment</i> |
| Maximum TX Power | 5G: 26dBm 2.4G: 24dBm <i>*Maximum power varies by country, frequency band, and MCS rate</i> |
| 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 |