



## Tri-Band Wi-Fi 7 Access Point

### GWN7672

The GWN7672 is a powerful enterprise-grade Wi-Fi 7 access point that provides speeds up to 11Gbps (BE11000), ideal for demanding environments with medium-to-high user density. It ensures maximum network throughput and provides expanded Wi-Fi coverage range thanks to tri-band 2x2x2:2 MU-MIMO with DL/UL Enhanced OFDMA technology and a sophisticated antenna design. The GWN7672 improves bandwidth utilization and anti-interference with Multi-Resource Units (MRU) and Preamble Puncturing technology, provides a significant increase in data transfer rates through 4096 QAM, and optimizes spectrum resource utilization to ensure a smooth user experience through Multi-Link Operation (MLO) technology. To ensure easy installation and management, the GWN7672 uses a controller-less distributed network management design in which the controller is embedded within the product's web user interface. The GWN7672 can also be managed by GDMS Networking and GWN Manager, Grandstream's cloud and on-premise Wi-Fi management platform. It is the ideal Wi-Fi AP for voice-over-Wi-Fi deployments and offers a seamless connection with Grandstream's Wi-Fi capable IP phones. With support for advanced QoS, low-latency real-time applications, mesh networks, captive portals, Bluetooth Low Energy 5.3, 384 concurrent clients, and 2x 5-Gigabit network ports with PoE+, the GWN7672 is an ideal Wi-Fi access point for demanding wireless network deployments with medium-to-high user density.



11Gbps aggregate wireless throughput (BE11000), 5Gbps aggregate wired throughput



Integrated Wi-Fi 7 & Tri-band 2x2x2:2 MU-MIMO with MLO, 4KQAM, MRU, Preamble Puncturing Technology



Up to 175-meter coverage range



Support 384 concurrent Wi-Fi client devices



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



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



Self power adaptation upon auto detection of PoE+



Embedded controller manages up to 50 local GWN APs; GDMS Networking offers unlimited AP management, & GWN Manager offers on-premise software AP management

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| <b>Wi-Fi Standards</b>                   | IEEE 802.11 a/b/g/n/ac/ax/be                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Antennas</b>                          | 7 single frequency antennas<br>2.4GHz x 2, gain 3.5dBi<br>5GHz x 2, gain 5.5dBi<br>6GHz x 2, gain 5.5dBi<br>BT gain 3.5dBi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Wi-Fi Data Rates</b>                  | <b>2.4G:</b><br>IEEE 802.11be: Up to 688 Mbps<br>IEEE 802.11ax: 7.3 Mbps to 574 Mbps<br>IEEE 802.11n: 6.5 Mbps to 300 Mbps<br>IEEE 802.11b: 1, 2, 5.5, 11 Mbps<br>IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br><br><b>5G:</b><br>IEEE 802.11be: Up to 4320 Mbps<br>IEEE 802.11ax: 7.3 Mbps to 2402 Mbps<br>IEEE 802.11ac: 6.5 Mbps to 1732 Mbps<br>IEEE 802.11n: 6.5 Mbps to 600 Mbps<br>IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br><br><b>6G:</b><br>IEEE 802.11be: Up to 5765 Mbps<br>IEEE 802.11ax: 8 Mbps to 4802 Mbps<br><br><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>                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Frequency Bands</b>                   | 2.4GHz Radio: 2400 - 2483.5 MHz<br>5GHz Radio: 5150 - 5850 MHz<br>6GHz Radio: 5945 - 7125 MHz<br><br><i>*Not all frequency bands can be used in all regions</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Channel Bandwidth</b>                 | 2.4G: 20 and 40 MHz<br>5G: 20, 40, 80, 160MHz and 240MHz<br>6G: 20, 40, 80, 160 and 320MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Wi-Fi and System Security</b>         | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MIMO</b>                              | 2x2:2 2.4GHz<br>2x2:2 5GHz<br>2x2:2 6GHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Coverage Range</b>                    | Up to 175 meters<br><i>*coverage range can vary based on environment</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Maximum TX Power</b>                  | 2.4G: 26dBm<br>5G: 25dBm<br>6G: 24dBm<br><i>*Maximum power varies by country, frequency band and MCS rate</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Receiver Sensitivity</b>              | <b>2.4G</b><br>802.11b: -96dBm@1Mbps, -88dBm@11Mbps; 802.11g: -93dBm @6Mbps, -75dBm@54Mbps;<br>802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7;<br>802.11ax 20MHz: -65dBm @MCS11; 802.11ax 40MHz: -62dBm @MCS11;<br>802.11be 20MHz: -65dBm @MCS11; 802.11be 40MHz: -62dBm @MCS11;<br><br><b>5G</b><br>802.11a: -92dBm @6Mbps, -74dBm @54Mbps;<br>802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz: -70dBm @MCS7;<br>802.11ac 20MHz: -70dBm@MCS8; 802.11ac: 40MHz: -65dBm @MCS9; 802.11ac 80MHz: -62dBm @MCS9; 802.11ac 160MHz: -59dBm @MCS9;<br>802.11ax 20MHz: -64dBm @MCS11; 802.11ax 40MHz: -61dBm @MCS11;802.11ax 80MHz: -59dBm @MCS11; 802.11ax 160MHz: -55dBm @MCS11;<br>802.11be 20MHz: -59dBm @MCS13; 802.11be 40MHz: -56dBm @MCS13; 802.11be 80MHz: -54dBm @MCS13; 802.11be 160MHz: -52dBm @MCS13;<br><br><b>6G</b><br>802.11ax 20MHz: -62dBm @MCS11;802.11ax 40MHz: -59dBm @MCS11;802.11ax 80MHz: -57dBm @MCS11;802.11ax 160MHz: -53dBm @MCS11;802.11ax 320MHz:-51dBm@ MCS11<br>802.11be 20MHz: -57dBm @MCS13; 802.11be 40MHz: -54dBm @MCS13; 802.11be 80MHz: -52dBm @MCS13; 802.11be 160MHz: -50dBm @MCS13;802.11be 320MHz: -47dBm @MCS13 |
| <b>SSIDs</b>                             | 48 SSIDs total, 16 per radio (2.4GHz, 5GHz, and 6GHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Concurrent Clients</b>                | 384                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Network Interfaces</b>                | 2x 5G Ethernet WAN/LAN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Auxiliary Ports</b>                   | 1x Reset Pinhole, 1x Kensington lock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bluetooth®</b>                        | Bluetooth Low Energy 5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Mounting</b>                          | Indoor wall mount or ceiling mount, kits included                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>LEDs</b>                              | 1 tri-color LED for device tracking and status indication                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Network Protocols</b>                 | IPv4, IPv6, 802.1Q, 802.1p, 802.1x, 802.11e/WMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>QoS</b>                               | 802.11e/WMM, VLAN, TOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Network Management</b>                | Embedded controller can manage up to 50 local GWN APs<br>GDMS Networking offers a free cloud management platform for unlimited GWN APs<br>GWN Manager offers premise-based software controller for up to 3,000 GWN APs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Power and Green Energy Efficiency</b> | PoE+ 802.3at;<br>Maximum Power Consumption: 25W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Environmental</b>                     | Operation: 0°Cto 45°C<br>Storage: -30°C to 60°C<br>Humidity: 10% to 90% Non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Physical</b>                          | Unit Dimension: 220mmx220mmx54mm; Unit Weight: 838.4g<br>Entire Package Dimension: 275mmx266mmx76mm; Entire Package Weight: 1271.4g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Package Content</b>                   | GWN7672 Wi-Fi 7 Wireless AP, Mounting Kits, Quick Start Guide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Compliance</b>                        | FCC, CE, RCM, IC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |