GRANDSTREAM
CONNECTING THE WORLD




# PTP/PtMP Fixed Wireless Bridge

## GWN7302

The GWN7302 is a new enterprise PTP/PtMP Fixed Wireless Bridge, ideal for medium-to-large businesses that need to provide long-distance wireless data transmission. It offers dual-band 2x2:2 MIMO and a sophisticated antenna design with TDMA technology to improve spectrum utilization efficiency, reduce interference, and enhance network stability. It supports PTP and PtMP modes to meet different scenarios. It offers IP66-level weatherproof capability to ensure equipment stability. One key pairing can quickly synchronize and connect devices, combined with the signal strength LEDs to guide the antenna alignment, simplifying the installation and use of the device. To ensure easy installation and management, the GWN7302 uses a controller-less distributed network management design in which the controller is embedded within the product's web user interface. The GWN7302 is also supported by the GWN App, which can be configured by connecting Wi-Fi broadcasted by the device itself when it is not convenient to access the LAN and the GDMS cloud platform offers remote management. It has a 2x1 Gigabit network port, supporting PoE IN and PoE OUT respectively. GWN7302 is an ideal long-range wireless bridge for factories, construction sites, parking lots, scenic locations, and more.

Gigabit

2.4Gbps aggregate wireless throughput, 2x1 Gigabit Ethernet port

2x2 MIMO

Dual-band 2x2:2 MIMO with TDMA technology

Up to 5-kilometer coverage range

8 KV surge protection

QoS

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

IP66 level weatherproof

PoE+

Self power adaptation upon auto detection of PoE+

Convenient and intelligent web management; GWN App management; GDMS Networking offers a remote management via SSH tunneling

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|---|---|
| **Wi-Fi Standards** | IEEE 802.11 a/n/c/ax |
| **Antennas** | 2 single frequency antennas<br>5GHz x 2, gain 13dBi<br>Beamwidth<br>5G:H:30°, V:30° |
| **Wi-Fi Data Rates** | **5G:**<br>IEEE 802.11ax: 7.3 Mbps to 2402 Mbps<br>IEEE 802.11ac: 6.5 Mbps to 1732<br>Mbps IEEE 802.11n: 6.5 Mbps to 300 Mbps<br>IEEE 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps<br><br>**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** | 5GHz Radio: 5150 - 5850 MHz<br>**Not all frequency bands can be used in all regions* |
| **Channel Bandwidth** | 5G: 20, 40, 80, and 160 MHz (x2) |
| **Wi-Fi and System Security** | WPA2-PSK, WPA3-PSK, anti-hacking secure boot and critical data/control lockdown via digital signatures, unique security certificate and random default password per device |
| **MIMO** | 2x2:2 5GHz |
| **Coverage Range** | Up to 5 kilometers<br>**coverage range can vary based on environment* |
| **Maximum TX Power** | 5G: 26dBm<br>**Maximum power varies by country, frequency band and MCS rate* |
| **Receiver Sensitivity** | **5G**<br>802.11a: -92dBm @6Mbps, -74dBm @54Mbps;<br>802.11n 20MHz: -73dBm @MCS7; 802.11n 40MHz:-70dBm @MCS7;<br>802.11ac 20MHz: -67dBm@MCS8; 802.11ac: 40MHz:- 63dBm @MCS9; 802.11ac 80MHz: -59dBm @MCS9;<br>802.11ax 20MHz: -60dBm @MCS11; 802.11ax 40MHz: -58dBm @MCS11;802.11ax 80MHz: -56dBm @MCS11 MCS11;802.11ax 160MHz: -52dBm@ MCS11 |
| **Management SSID** | Single 5G |
| **Point to Multipoint** | 1 to 4 |
| **Network Interfaces** | 2x 10/100/1000Mbps Ethernet |
| **Auxiliary Ports** | 1x Reset and Pairing Pinhole |
| **LEDs** | 1 tri-color LED for device tracking and status indication<br>3x LED for signal strength<br>2x LED for network port status |
| **Network Protocols** | IPv4, 802.1Q, 802.1p, 802.11e/WMM |
| **QoS** | 802.11e/WMM, VLAN, TOS |
| **Network Management** | Embedded controller can manage via web access<br>GDMS Networking offers remote management via SSH tunneling<br>GWNn App offers management without LAN |
| **Power and Green Energy Efficiency** | DC: +24VDC (Compatible with 16VDC-48VDC),<br>PoE/PoE+ 802.3af/at<br>PSE output: max 13W with PoE+ Input/max 25W with +24VDC/2A input<br>Maximum Power Consumption: TBD |
| **Environmental** | Operation: -30°Cto 60°C<br>Storage: -30°C to 70°C<br>Humidity: 5% to 95% Non-condensing |
| **Physical** | Unit Dimension: 180mm x 102mm x 38mm; Unit Weight: TBD<br>Entire Package Dimension: TBD; Entire Package Weight: TBD |
| **Mountings** | Wall-mount or pole mount, kits included |
| **Package Content** | GWN7302 PTP/PtMP Fixed Wireless Bridge, Mounting Kits, Quick Start Guide |
| **Weatherproof Grade** | IP66-level weatherproof capability when installed vertically |
| **Surge Protection** | 8KV |
| **Compliance** | FCC, CE, RCM, IC |