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 single-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

Single-band 2x2:2 MIMO with TDMA technology

5 km

Up to 5-kilometer coverage range

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

Hardware Specifications

Radio	**Antenna**	2 single internal antennas 5GHz x 2 , gain 13.5dBi Beamwidth 5G: H:30°, V:30°
	MIMO	5GHz: 2x2:2, MIMO
	Frequency Bands	5GHz Radio: 5150 - 5850 MHz **Not all frequency bands can be used in all regions*
	Channel Bandwidth	5G: 20, 40, 80 and 160MHz (x2)
	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: 6.5 Mbps to 300Mbps IEEE 802.11a: 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*
	Maximum TX Power	5G: 23dBm (200 Milliwatts) **Maximum power varies by country, frequency band and MCS rate*
	Receiver Sensitivity	**5G** 802.11a: -92dBm @6Mbps, -74dBm @54Mbps; 802.11n 20 MHz: -73 dBm @MCS7; 802.11n 40 MHz: -70 dBm @MCS7; 802.11ac 20 MHz: -67 dBm @MCS8; 802.11ac 40 MHz: -63 dBm @MCS9; 802.11ac 80 MHz: -59 dBm @MCS9; 802.11ax 20 MHz: -60 dBm @MCS11; 802.11ax 40 MHz: -58 dBm @MCS11; 802.11ax 80 MHz: -56 dBm @MCS11; 802.11ax 160 MHz: -52 dBm@ MCS11;
	Coverage Range	Up to 5 kilometers **coverage range can vary based on environment*
	Point to Multipoint	1 to 4
Interfaces	**Network Ports**	1x autosensing 10/100/1000 Base-T Ethernet Port, RJ-45, PoE input 1x autosensing 10/100/1000 Base-T Ethernet Port, RJ-45, PoE output
	LEDs	1 tri-color LED for device tracking and status indication 3x LED for signal strength 2x LED for network port status
	Auxiliary Ports	1x Reset and Pairing Button
Power	**PoE Input**	802.3af/at
	DC	+24V (Compatible with 16V-48V)
	PSE output	Max 13W with PoE+ input Max 25W with +24V DC/2A input
	Maximum Power Consumption	13W
Physical	**Dimension**	Unit: 180 x 102 x 38 mm Entire Package: 219 × 185.5 × 66 mm
	Weight	Unit: 412g Entire Package: 753g
	Mounting	Wall mount or pole mount, kits included
	Package Content	GWN7302 PtP/PtMP Fixed Wireless Bridge, Mounting Kits, Quick Start Guide
Environmental	**Temperature**	Operation: -30°C to 60°C Storage: -30°C to 70°C
	Humidity	5% to 95% Non-condensing
	Weatherproof Guide	IP66-level weatherproof capability
Compliance	FCC, CE, RCM, IC	

Software Specifications

WLAN	IEEE 802.11 a/n/ac/ax
	SSID: Single 5G, disabled
	Support auto channel
	Support transmit power selection
	Support management Wi-Fi
	Support TDMA
Pairing	One-key pairing
	Web pairing
Network	Static or DHCP IPv4
	Support VLAN
Security	WPA2-PSK WPA3-PSK
System Tools	Link Test
	Antenna Alignment
	Spectrum Analyzer
QOS	802.11e/WMM,802.1p, 802.1q, TOS
Management Platform	Local Web
	GDMS Networking via SSH tunneling
	GWN Manager
	GWN App
Management Protocol	TR-069
	SNMP