

PTP/PTMP 900Mbps 15KM Wireless Bridge

GP-AB950-15 Series



Introduction

GP-AB950-15 Series is a high-performance 5.8GHz outdoor wireless bridge that offers a data transfer rate of up to 867Mbps. It features an integrated 23dBi high-gain directional antenna, enabling long-distance wireless connectivity of up to 15 KM through wireless WDS connection method. It is compatible with 802.11 a/n/ac standards, catering to diverse network requirements.

GP-AB950-15 is designed for rugged industrial environments, ideal for applications in coal mines, oil fields, power plants, telecommunications, and monitoring systems. It ensures reliable long-distance video transmission and wireless connectivity, making it perfect for scenarios requiring extensive coverage and stable performance.

Main Feature

- Support 802.11 a / n / ac Standard
- Support Single-Band with 867Mbps Speed (2×2 MIMO)
- Support MAX. up to 15km wifi transmit distance
- Support Wireless Bridge&Router Mode
- Support Intelligent QoS wireless multimedia optimization technology
- Support wireless spectrum scanning & energy monitoring
- Reduce interference with JTTrans, improving network stability
- Support high-precision wireless link testing with an error margin $\leq 3\%$
- Support antenna calibration tools for real-time alignment.
- Support dual firmware backup to prevent device failure in extreme conditions.
- Web-based management for easy installation and maintenance.
- Support wireless controller (AC) management with remoteconfiguration/upgrade.
- Support 10/100/1000Mbps RJ45 Ethernet
- Support IEEE 802.3 at PoE Power Supply
- Support Diversified Access Authentication Methods
- Support IP56 Protection-Level

Hardware Parameter

CPU		IPQ4028
DDR		256MB DDR3L, 32MB Flash
Max. Rate		867Mbps
Max. Transmit Distance		15KM
Protocol		802.11 a/n/ac
Frequency		5180~5320MHz、5745~5825MHz (CHINA) 5180~5320MHz、5500~5720MHz、5745~5825MHz (USA) 5160~5340MHz、5480~5720MHz、5745~5865MHz (INDIA) 5160~5340MHz、5480~5720MHz、5745~5825MHz (UAE) 5745~5805MHz(Indonesia) Frequency Range: 4920~5960MHz (Please comply with local laws and regulations) *The above frequencies need to be supported by specific versions
Size		Device: $\Phi 464\text{mm} \times 250\text{mm}$ Antenna :464x464x250mm
Weight		Device : 1.6kg
Port	Ethernet	1 × 10/100/1000Base-T RJ45 Port(PoE)
	Reset	1*Reset
	Indicator	PWR, SYS, Signal strength, ETH Status
Antenna	Gain	23dBi
	Beam width	Horizontal: 8° Vertical: 8°
MAX Transmit Power		28dBm
Adjustable Granularity		1dBm
Operating Temperature		-40°C ~ 70°C
Storage Temperature		-40°C ~ 80°C
Operating Humidity		5%~95%(Non-condensing)
IP Protection Level		IP56 (Electromagnetic shielding, Waterproof, Lightning protection)
Power Supply		Passive POE 24V
Max. Consumption		≤9W
Average Consumption		≤7W
Installation Method		Pole installation: 30mm≤pole diameter≤70mm
Surge Immunity		1. Differential mode: line pair -line pair (-48V-RTN) 1.5KV (1.2 / 50us 42 ohm) CriterionB line pair-line pair (-48V -RTN) 1.5KV (10 / 700us 15 + 25 ohm) Criterion C 2. Difference mode: (difference pair) 0.5kV 42ohm 1.2 / 50us Criterion C 3. Common mode: 6 KA 4.Difference mode 250A (four line to four line), 8 / 20us, Criterion c
Electrostatic Discharge		Contact discharge: 6KV, air discharge: 8KV
Wind-resistant speed		200km/h
MTBF		>250000H

RF Parameter

	Transmit power			Receiving sensitivity		
	Rate	Power	Tolerance	Rate	Sensitivity	Tolerance
11 b/g/n	1 Mbps	20dBm	+/- 2dBm	1 Mbps	-96dBm	+/- 2dBm
	11Mbps	20dBm	+/- 2dBm	11Mbps	-89dBm	+/- 2dBm
	6 Mbps	18dBm	+/- 2dBm	6 Mbps	-91dBm	+/- 2dBm
	54 Mbps	16dBm	+/- 2dBm	54 Mbps	-73dBm	+/- 2dBm
	HT20 MCS0 (Merge)	18dBm	+/- 2dBm	HT20 MCS0	-91dBm	+/- 2dBm
	HT20 MCS7(Merge)	15dBm	+/- 2dBm	HT20 MCS7	-69dBm	+/- 2dBm
	HT40 MCS0(Merge)	18dBm	+/- 2dBm	HT40 MCS0	-89dBm	+/- 2dBm
	HT40 MCS7(Merge)	15dBm	+/- 2dBm	HT40 MCS7	-67dBm	+/- 2dBm
11a/n	6 Mbps	25dBm	+/- 2dBm	6 Mbps	-91dBm	+/- 2dBm
	54 Mbps	23dBm	+/- 2dBm	54 Mbps	-73dBm	+/- 2dBm
	HT20 MCS0 (Merge)	28dBm	+/- 2dBm	HT20 MCS0	-91dBm	+/- 2dBm
	HT20 MCS7(Merge)	25dBm	+/- 2dBm	HT20 MCS7	-70dBm	+/- 2dBm
	HT40 MCS0(Merge)	28dBm	+/- 2dBm	HT40 MCS0	-88dBm	+/- 2dBm
	HT40 MCS7(Merge)	25dBm	+/- 2dBm	HT40 MCS7	-68dBm	+/- 2dBm
11ac	HT20 MCS0(Merge)	28dBm	+/- 2dBm	VHT20 MCS0	-91dBm	+/- 2dBm
	HT20 MCS8(Merge)	24dBm	+/- 2dBm	VHT20 MCS8	-67dBm	+/- 2dBm
	HT40 MCS0(Merge)	28dBm	+/- 2dBm	VHT40 MCS0	-87dBm	+/- 2dBm
	HT40 MCS9(Merge)	24dBm	+/- 2dBm	VHT40 MCS9	-64dBm	+/- 2dBm
	HT80 MCS0(Merge)	28dBm	+/- 2dBm	VHT80 MCS0	-85dBm	+/- 2dBm
	HT80 MCS9(Merge)	24dBm	+/- 2dBm	VHT80 MCS9	-60dBm	+/- 2dBm

* The combined power in the above table is the single-channel power tested +3dB

Software Parameter

Working Mode	Access Point, Client
Security	WPA2-PSK, IP/MAC filter, ACL Reploy
Deploy Management	Support Website /AC Remote deploy
WiFi Managment	Support
VTrans	TDMA+: Maximizes efficiency by eliminating hidden terminal issues. Frequency Expansion: Reduces interference with more frequency options. Channel Width Selection: Minimizes interference by adjusting channel width. AutoAck: Optimizes performance for long distances with smart ACK calculations
Others	Device Alerts, Spectrum Scanning, Link Testing, VLAN , QoS, Watchdog

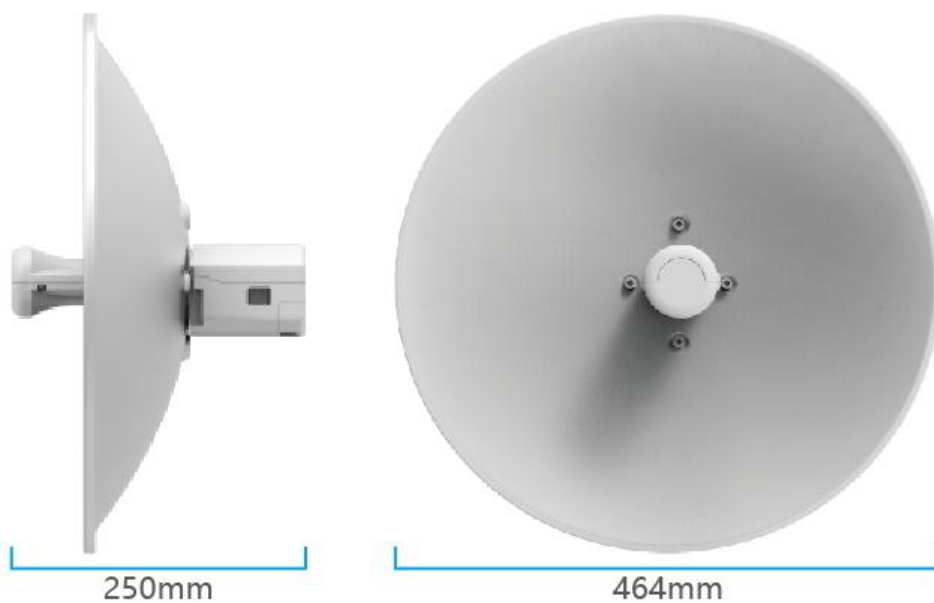
Appearance



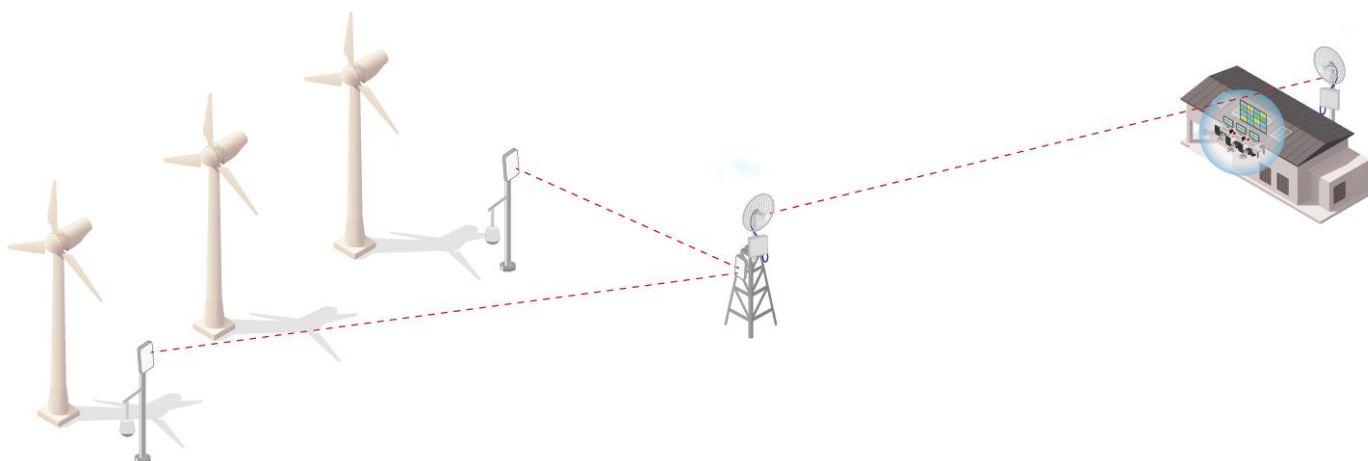
Port

Indicators

Device&Antenna



Application Scenario



INDUSTRIAL NETWORK SOLUTION SPECIALIST



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