

# 5.8G 700Mbps 100KM Wireless Bridge

**GP-AB950-80 Series**



# Introduction

GP-AB950-80 is an industrial 80 km point-to-point wireless bridge, delivering up to 700 Mbps with 2–4 ms low latency. Equipped with a 1.2 GHz CPU and support external 36 dBi high-gain antenna, it ensures stable long-range transmission for video, voice, and data.

GP-AB950-80 features dual Gigabit ports (one with PoE passthrough), supports 1+1 redundancy, relay mode, auto channel/power control, and includes tools like link test, spectrum analysis, and antenna alignment. Compatible with VLAN, DHCP, dual firmware, SNMP, and cloud management.

Built with an IP67-rated aluminum shell, it resists water, dust, condensation, and wind. RGB LEDs indicate signal and status. Ideal for mining, oilfields, highways, power grids, and remote monitoring.

## Main Feature

- Support up to 700 Mbps wireless speed.
- Support Maximum transmission distance of 80 km.
- Support external 36 dBi high-gain antenna with adjustable angle.
- Support 2× Gigabit Ethernet ports, one with PoE passthrough.
- Voice & Video Priority: QoS ensures stable transmission.
- 1.2GHz CPU: Handles up to 200,000 pps efficiently.
- Support IEEE 802.3at 48V PoE power supply.
- Support IP67-rated industrial-grade aluminum housing.
- Built-in surge and ESD protection (IEC Class 4).
- Auto channel/power control, link test, and spectrum analysis.
- RGB LED indicators for signal strength and device status.

## Technical Parameter

Model	GP-AB950-80									
CPU	1.2GHz									
QAM	256									
Radio Mode	MIMO 2x2									
Frequency Range	4.900 - 6.100 GHz (FCC: 4.940 - 4.990 GHz, 5.150-5.250 GHz, 5.725-5.850 GHz)									
Channel size	5, 10, 20, 40, 80 MHz									
Modulation schemes	OFDM (256-QAM, 64-QAM, 16-QAM, QPSK, BPSK)									
Data rates @ 80 MHz	866, 780, 650, 585, 520, 390, 260, 195, 130, 65 Mbps									
Duplexing scheme	TDD									
Error correction	BCC, LDPC									
Radio security	Hardware AES-128									
Modulation, Mbps	866	780	650	585	520	390	260	195	130	65
TX Power, dBm	25	26	26	27	27	28	29	30	30	31866
Receive sensitivity, dBm	-71	-73	-77	-79	-80	-84	-87	-92	-94	-97

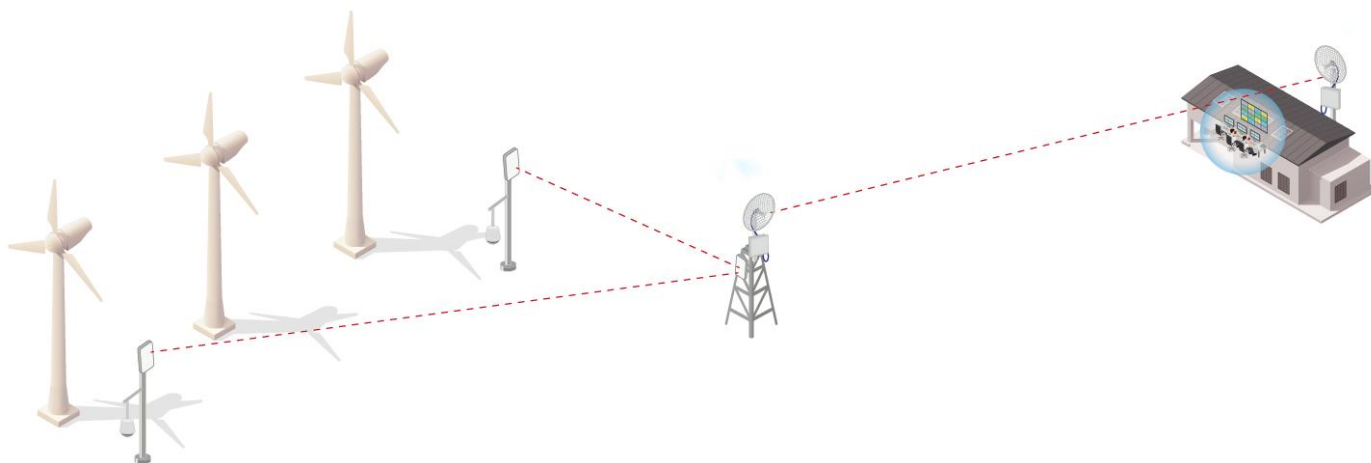
## Hardware Parameter

Size		Length 399 mm, width 174 mm, height 47 mm								
Weight		2.9 kg								
Port	Ethernet	10/100/1000 Base-T with PoE IN (RJ45)								
		10/100/1000 Base-T with PoE OUT (RJ45)								
	Antenna	2*N-type Connection Port for external 36dBi high-power antenna								
Power Input		PoE 802.3at, isolated 42 - 57 VDC								
Power Output		PoE 802.3af, 48 VDC, 12.95W maximum								
Max. Consumption		8.6 W								
Operating Temperature		-40°C ~ 65°C								
Operating Humidity		0%~90%( Non-condensing)								
IP Protection Level		IP67								
Protection		Support surge and ESD protection according to IEC standards and passes Class 4 requirements								

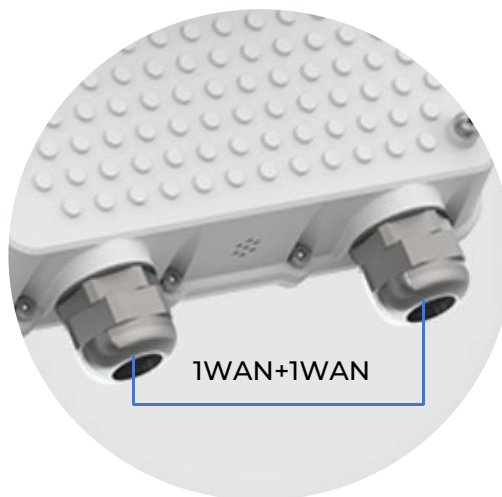
## Software Parameter

Features	Wizard for fast link setup
	Centralized control from master: A) Common wireless link parameters ; B) Individual slave parameters
	Smart Auto-channel (FCC/ETSI DFS-compatible, user-configurable)
	Robust data security
	QoS with hardware acceleration
	Spectrum analyzer
	Wireless signal and device state indication on RGB LEDs
	Dual firmware image
Network Function	VLAN Setting
	DHCP server: built-in DHCP server or external DHCP server
	Cloud platform server
Management	Dedicated 24 GHz radio for management
	System monitoring
	System configuration
	SNMP, GUI/HTTP(S), ShellVsSH and WNMS
	GU/HTTP(S) and WNMS

## Application Scenario



## Appearance & Accessories



Device \*1



Accessories\*1



Manual\*1

## Model Selection

Model	GP-AB950-80	GP-AB950-100
Features	80KM Wireless Bridge	100KM Bridge



# INDUSTRIAL NETWORK SOLUTION SPECIALIST



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