

PTP/PTMP 300Mbps 50KM Wireless Bridge

GP-AB930-50 Series



Introduction

GP-AB930-50 Series is a high-performance 5.8GHz outdoor wireless bridge that offers a data transfer rate of up to 300Mbps. It features an external high-gain directional antenna, enabling long-distance wireless connectivity of up to 50 KM through wireless WDS connection method. With an IP66 protection rating, this device is designed to operate reliably in harsh outdoor environments.

GP-AB930-50 support multiple operation modes, including bridge mode, AP mode, router mode. It is compatible with 802.11a/n standards, catering to diverse network requirements.

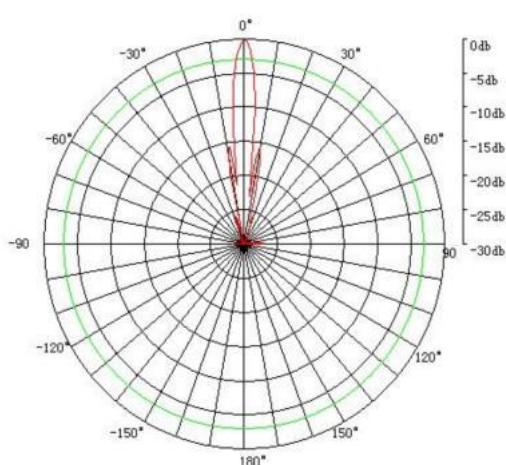
GP-AB930-50 is designed for rugged industrial environments, ideal for applications in coal mines, oil fields, power plants, telecommunications, and monitoring systems. It ensures reliable long-distance video transmission and wireless connectivity, making it perfect for scenarios requiring extensive coverage and stable performance.

Main Feature

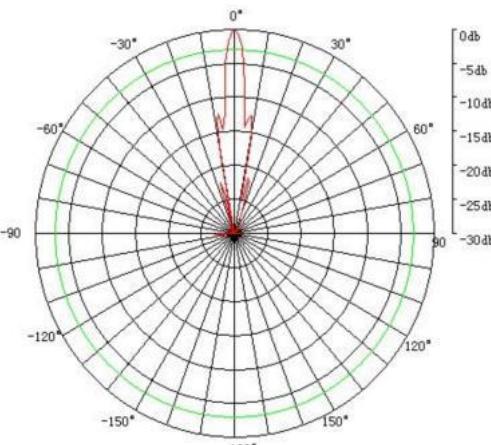
- Support 802.11 a / n Standard
- Support Single-Band with 300Mbps Speed (2×2 MIMO)
- Support MAX. up to 50km wifi transmit distance
- Support Wireless Bridge&Router Mode
- Support Intelligent QoS wireless multimedia optimization technology
- Prioritizes stable transmission of voice and video.
- Web-based management for easy installation and maintenance.
- Support wireless controller (AC) management with remote configuration/upgrade.
- Support 10/100/1000Mbps RJ45 Ethernet
- Support IEEE 802.3 at PoE Power Supply
- Support Diversified Access Authentication Methods
- Support IP66 Protection-Level

Hardware Parameter

CPU	AR9344
DDR	64MB DRAM, 8MB Flash
Size	Device: 217x217x68mm Antenna : Ø600
Weight	Device : 2.26kg Antenna : 1.5kg
Port	Ethernet 1 × 10/100/1000Base-T RJ45 Port(PoE)
	RF 2*N Type
Antenna	Gain 29dBi
	Beam width Horizontal: 6° Vertical: 6°
MAX Transmit Power	30dBm
Adjustable Granularity	1dBm
Operating Temperature	-40°C ~ 75°C
Storage Temperature	-40°C ~ 85°C
Operating Humidity	5%~95%(Non-condensing)
IP Protection Level	IP66
Power Supply	Support 802.3at Power Supply
Max. Consumption	≤15W
Average Consumption	≤10W
IP Protection Level	>250000H
Installation	Pole: 30mm≤pole diameter≤50mm
Surge Immunity POE/GE	Common mode 4KV, differential mode 2KV
Electrostatic Discharge Immunity	Contact discharge: 4KV, air discharge: 6KV
Wind speed	150km/h



Horizontal



Vertical

RF Parameter

11a/n	Transmit power			Receiving sensitivity		
	6 Mbps	27dBm	+/- 2dBm	6 Mbps	-91dBm	+/- 2dBm
	54 Mbps	24dBm	+/- 2dBm	54 Mbps	-72dBm	+/- 2dBm
	HT20 MCS0 (Merge)	30dBm	+/- 2dBm	HT20 MCS0	-91dBm	+/- 2dBm
	HT20 MCS7(Merge)	27dBm	+/- 2dBm	HT20 MCS7	-70dBm	+/- 2dBm
	HT40 MCS0(Merge)	30dBm	+/- 2dBm	HT40 MCS0	-88dBm	+/- 2dBm
	HT40 MCS7(Merge)	27dBm	+/- 2dBm	HT40 MCS7	-68dBm	+/- 2dBm

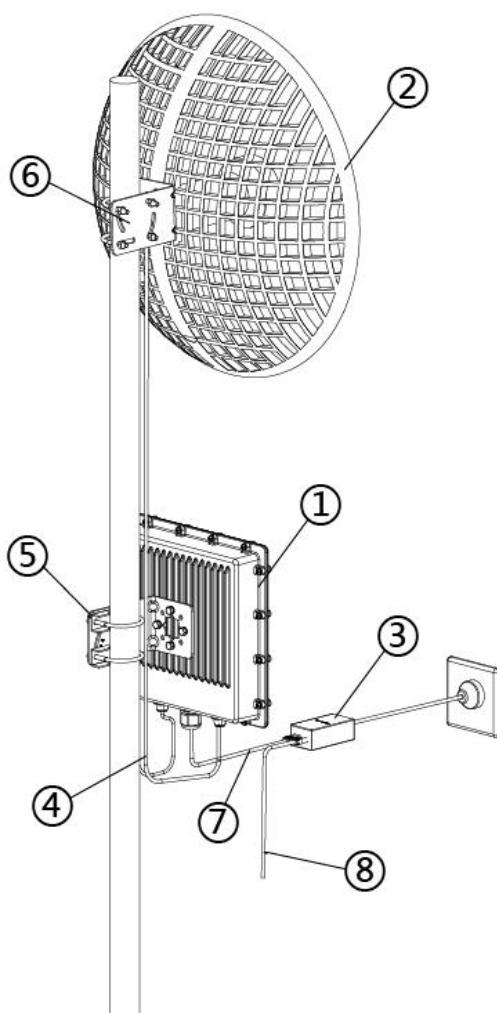
* The combined power in the above table is the single-channel power tested +3dB

Software Parameter

Protocol	802.11a/n
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: 4920~6100MHz (Please comply with local laws and regulations) * The above frequencies need to be supported by specific versions
Working Mode	Access Point, Client, WDS APs, WDS Client
Security	WPA2-PSK, IP/MAC filter, Hidden SSID
Management	Support Website deploy, support AC Remote deploy, support SNMP Management
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

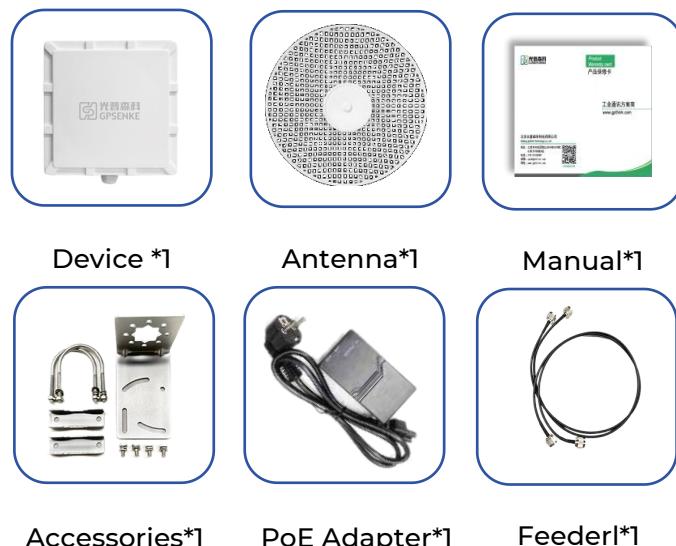


Installation Method & Accessories

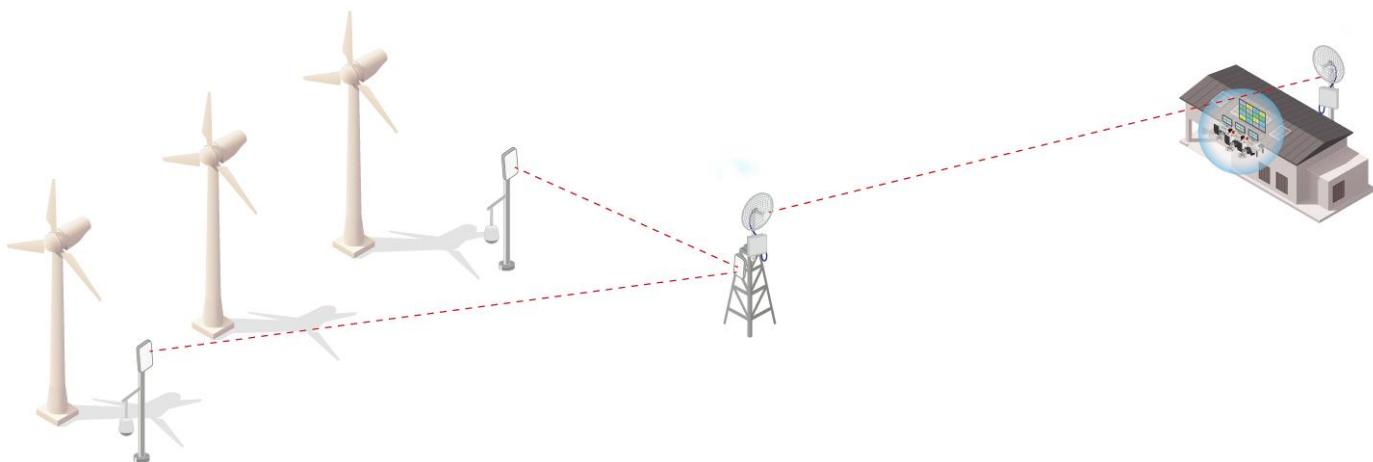


1. Wireless transmission device
2. Antenna
3. POE power supply
4. Feeder
5. Equipment mounting bracket
6. Antenna mounting bracket
7. Can be connected to POE power supply
8. LAN port of POE port can connect to external devices

*The actual installation height should be determined according to the transmission distance and the installation environment, and there should be no obstruction between the two points.



Application Scenario



INDUSTRIAL NETWORK SOLUTION SPECIALIST



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Update Time: 2025.5.27

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