光普森科
GPSENKE

10KM Wireless Bridge 5GHz 20dBi 866Mbps

GP-AB950-10 Series



INDUSTRIAL NETWORK SOLUTION SPECIALIST
WWW.GPSENKE.COM

Introduction

GP-AB950-10 Series is a high-performance 5.8GHz outdoor wireless bridge with 802.11a/n/ac standards, it offers a data transfer rate of up to 867Mbps. It features a built-in 20dBi high-gain directional antenna, enabling long-distance wireless connectivity of up to 10 KM through wireless WDS connection method. With an IP67 protection rating, the device support dust-proof, water-proof, lightning-proof which is designed to operate reliably in harsh outdoor environments.

GP-AB950-10 supports PoE power, remote web reset, and easy web configuration. With high-performance chips and optimized algorithms, it offers strong anti-interference, high bandwidth, and stability. Key features include multiple SSIDs, client limits, VLAN, QoS, WDS, and advanced RF settings.

GP-AB950-10 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 5.8G Single-Band with 867Mbps Speed
- Support up to 10km wifi transmit distance
- Support PTP/PTMP/Relay Mode
- Support Intelligent QoS wireless multimedia optimization technology
- Support Gigabit RJ45 Ethernet
- Support IEEE 802.3 at PoE24V /DC9-32V Power Supply
- Support 20dBi Build-in Directional Antenna
- Support Diversified Access Authentication Methods
- Support IP67 Protection-Level

Technical Parameter

Model	GP-AB950-10
CPU	QCA9563+QCA9882+QCA8334
Flash	16MB
DDR	128MB
PA_5.8G	SE5023L
MAX Transmit Power	867Mbps
MAX Transmit Distance	10KM
5.8G Working Protocol	802.11 a/n/ac
5.8G Working Band	5.150GHz～5.840GHz
5.8G Wireless Consumption	802.11a:54M/24±2dBm/6M/27±2dBm 802.11n HT20/MCS7/23±2dBm/MCS0/26±2dBm 802.11n HT40/MCS7/22±2dBm/MCS0/25±2dBm 802.11ac HT80/MCS9/21±2dBm/MCS0/24±2dBm 802.11a/54M/-72dBm/6M-90dBm
5.8G Receiving sensitivity	802.11n HT20/MCS7/-70dBm/MCS0 /-88dBm 802.11n HT40/MCS7/-68dBm/MCS0 /-86dBm 802.11ac HT80/MCS9/-58dBm/MCS0 /-85dBm
5.8G EVM	802.11a: ≤-25 dB; 802.11n: ≤-28 dB;
PPM	802.11ac: ≤-32 dB±20ppm

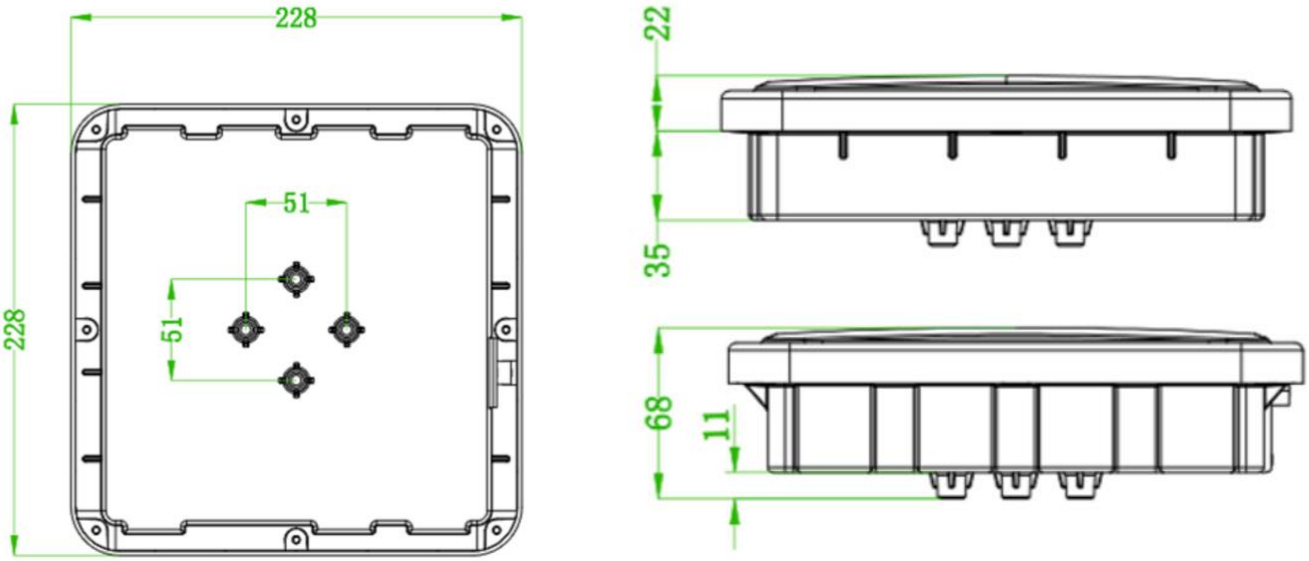
Hardware Parameter

Size	228mm× 228mm× 68mm
Weight	3.19kg
Antenna	Build-in 5.8G 20dBi Hign-Gain Directional Antenna
Port	1 × 10/100/1000Base-T RJ45 Port(PoE)
Operating Temperature	-40°C ～ 75°C
Storage Temperature	-40°C ～ 85°C
Operating Humidity	0%~95%(Non-condensing)
IP Protection Level	IP67
Power Supply	Support 802.3at / DC9-32V Power Supply
Consumption(Client5.8G)	≤10W

Software Parameter

Working Mode	Universal Repeater, Gateway Mode, Wireless ISP Mode, Super WDS
Wireless Function	Bridge Mode, Router Mode, Wireless Encryption, Wireless MAC Address Filtering, WiFi Scheduled Shutdown, Multicast Acceleration, User Isolation, Transmit Power Setting, Wireless Client Limit.
Web Function	VLAN Setup, DHCP Server, Cloud Server
Management	Backup Configuration, Restore Configuration, Restore Factory Settings, Reboot (including Scheduled Reboot and Immediate Reboot), Firmware Upgrade, Time Management (including System Time Display and Time Synchronization), System Log, Support for Local Unified Management.

Product Design



Appearance & Accessories







Support 9-32VDC

PWR

LAN/WAN Adaptive
Support PoE24V Power Supply



Packing*1



Device*1



Accessories*1



Manual*1

Model Selection

Model	GP-AB950-10
Speed	867M
Distance	10KM
Antenna Design	20dBi Build-in Antenna

INDUSTRIAL NETWORK
SOLUTION SPECIALIST

光普森科
GPSENKE

© GPSENKE(CHINA) | All rights reserved.
Update Time: 2025.9.1

This document and any part thereof may not be reproduced or used in any manner without the express written permission of GPSENKE (China).
Product specifications are subject to change without prior notice. Please visit our website for the latest product information.