Industrial AP/Bridge/Client 1600Mbps 60GHz Frequency

GP-HAP1600 Series

Introduction

GP-HAP1600 Series is a high-performance, high-speed 60GHz band wireless industrial access point designed based on IEEE 802.11ad. Operating in the 60GHz millimeter-wave frequency band, it provides over 7GHz of available frequency spectrum. This frequency band offers high bandwidth and minimal co-channel interference, significantly enhancing the anti-interference capability for air data transmission.

GP-HAP1600 Series compliant with IP67 waterproof and dustproof standards and approvals covering operating temperature, power input voltage, surge, ESD, and vibration.It can be widely used in wireless network coverage in industrial outdoor places such as oil&gas，Mining industry, Chemical Refinery factory, intelligent warehousing, automation factory, amusement park and etc.

Main Feature

- Support 802.11 ad Standard
- Support Gigabit Ethernet & Gigabit SFP Port
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- High Bandwidth: 2.16GHz channel with up to 1.6Gbps throughput at 300m, enabling smooth 4K video streaming and high-bandwidth applications without bottlenecks.
- Ultra-Low Latency: Single-hop delay as low as 50μs, delivering "faster-than-fiber" performance for seamless video transmission and next-gen broadband backhaul.
- AES256 Encryption: Secure data transmission.
- Support OFDMA
- Support IPv4/IPv6
- Support Open System, Shared Key, WPA, WPA-PSK, WPA2-Enterprise, WPA2-PSK
- Support IP67 Protection-Level
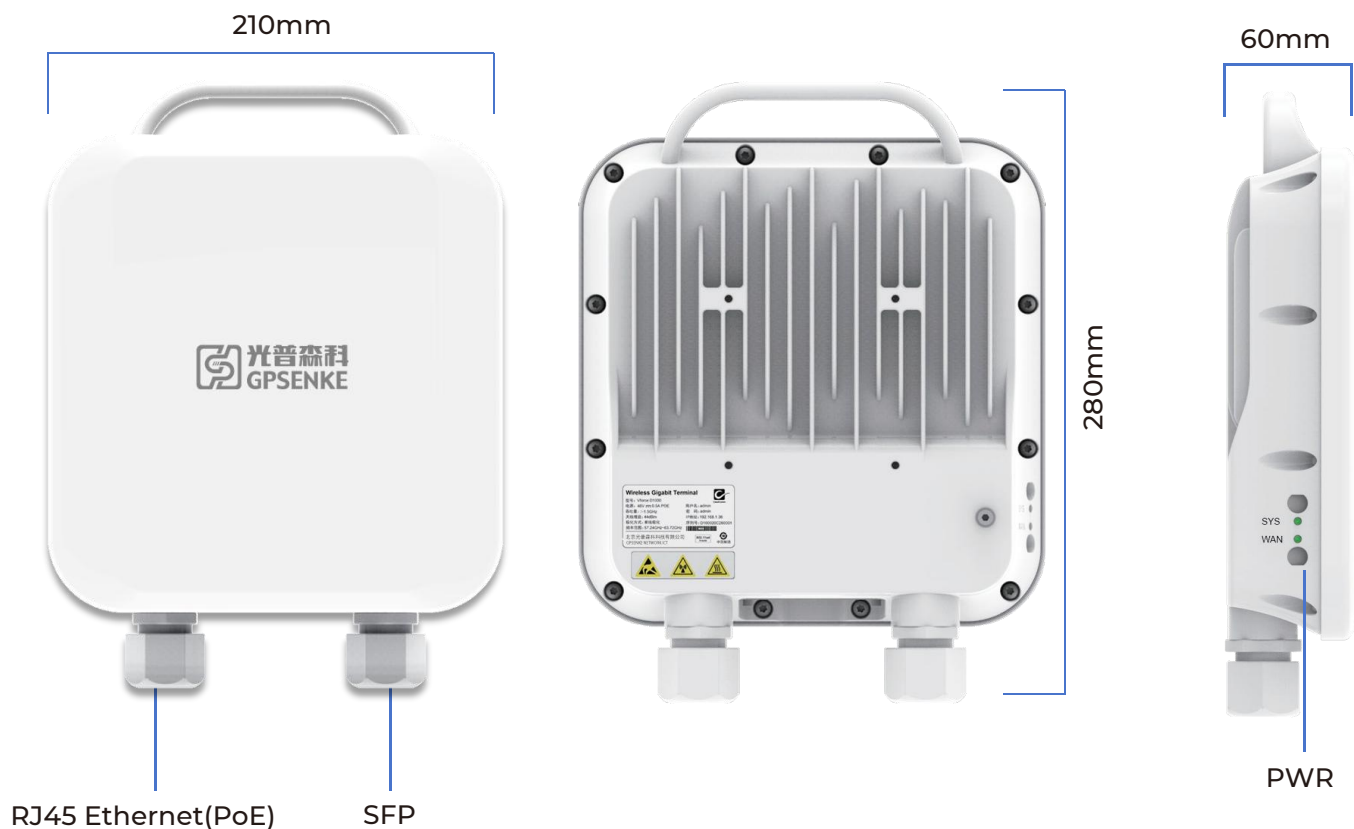- Support 10kV Surge Protection

Software Parameter

WLAN	Frequency Band	60GHz
	Channel Bonding	40MHz
	OFDMA	Support
	TWT	Support
	A-MPDU	Support
	MLD	Support
	MRC	Support
	STBC	Support
	LDPC	Support
	MAX Virtual AP	Single Band-- Support 16 Virtual AP
	Max Access Users	1024 (Influenced by Environment Fators)
	Max Access Spend	1600 Mbps
	RTS/CTS	Support
	CTS-to-self	Support
	Hidden SSID	Support
Working Mode	WDS. Client	
RF	Load Balancing	Load balancing is supported based on the number of users and user traffic
	Automatic Channel Selection	Support
	Automatic Power Regulation	Support
	Intelligent Speed Select	Support
	Time Fair Scheduling	Support
Security	Encryption	Support 64/128 bit WEP、TKIP、CCMP、WAPI
	Authentication Method	Cooperate With AC Support WPA、WPA-PSK、WPA2- Enterprise、WPA2-PSK、WPA3、MAC address Verify、Web Verify、PPPoE Verification and etc Methods
	LAY2 Isolation of Wireless Users	Support
	wIDS	Support
AAA	RadiusClient	Support
	Authentication Server Multi-domain configuration	Support
	Authentication Server Backup	Support

LAY2/LAY3	IP Address	Static IP and DHCP dynamically obtain addresses
	IPv6	Support
	ACL	Support
	DHCP server	Support (Router Mode)
	NAT	Support (Router Mode)
Service Quality	WMM(802.11e)	Support
	Priority Mapping	Support
	QoS Policy Mapping	Support
	Bandwidth Managed	Support Bandwidth Speed Limitation based on SSID and Users
	Call Admission Control（CAC）	Support
Maintenance	Network Management	SNMPV1/V2c/V3、Trap、Telnet、FTP/TFTP、WEB

Hardware Parameter

Size		210mm×289mm×60mm
Weight		1.8kg
Port	Ethernet	1 × 10/100/1000Base-T PoE/RJ45 Port
	Fiber	1 × 1000M SFP Slot
	Console	1 × Console Port
Antenna	Gain	36dbm
	Angle	horizontal: 90°，V ertical:20°
Working Band	2.4G	802.11 n/g/b: 2.4GHz-2.483GHz (CHINA)
	5G	IEEE 802.11ad
MAX Transmit Power		27dBm
Adjustable Granularity		1dBm
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
Consumption(Client5.8G)		≤20W
MTBF		>250000H

Appearance & Accessories

210mm

60mm

280mm

SYS
WAN

RJ45 Ethernet(PoE)   SFP

PWR

Packing*1   Device*1   Accessories*1   Manual*1

Model Selection

Model	GP-HAP1600
Speed	1600M
Working Band	60GHz
Ethernet	1×10/100/1000Mbps RJ45 ETH/PoE
Fiber	1×1000M SFP Slot
Antenna	Build-in 36dBm Antenna
Note: Please contact us for external antenna information!	

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