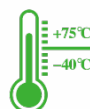


IAP3500-2E-1GT1GS-LV

Embedded Mounting

2-Port Gigabit Safety Dual-Frequency Wi-Fi6 Industrial Wireless AP for Mine

- Support 1 Gigabit SFP slot (LAN/ WAN port), 1 Gigabit copper port (LAN port), 2 2.4G/5G dual-frequency antenna interfaces
- Support Wi-Fi6 (802.11ax), which can improve system capacity and concurrent access, and reduce transmission delay.
- Support multiple network modes such as routing, AP, bridge and client mode.
- Support 9~24VDC power supply input
- Support -40~75°C wide operating temperature range
- Conform to the features of intrinsic safety



Introduction

IAP3500-2E-1GT1GS-LV is Gigabit safety dual-frequency Wi-Fi6 industrial wireless AP for mine. This product provides Gigabit copper port (LAN), Gigabit SFP slot (LAN/WAN), 2.4G/5G dual-frequency antenna interface, supports embedded installation, and can meet the needs of different application sites.

The management system supports route, AP, bridge, client and other work modes; Support IEEE802.11a/b/g/n/ac/ax wireless technology, the wireless rate of the whole device is up to 1774.5Mbps; The device supports wireless encryption methods such as WPA/WPA2/WPA3, and has various security policies such as SSID hiding, wireless user isolation, IP address filtering, MAC address filtering, port forwarding, port redirection, ARP binding, DMZ setting, etc. Support virtual AP, that is, one AP device supports multiple SSIDs.

RESET button can reboot the device and restore factory defaults. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in wireless communication, wireless video transmission and other WiFi coverage system design in mining system and provides reliable and rapid solutions for users' Ethernet device connection.

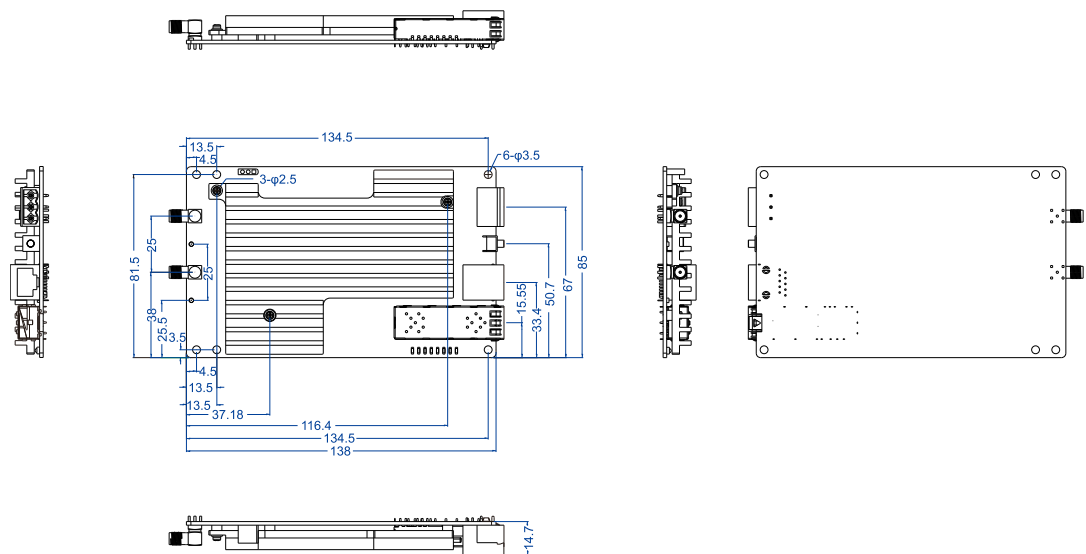
Features and Benefits

- ⊙ Support routing mode, AP mode, bridge mode, client mode, support connection methods like WDS and universal bridge
- ⊙ The client mode supports wireless NAT connection, and the wireless network can connect with the external network through PPPoE, static IP and DHCP dynamic acquisition, and implement route switch
- ⊙ Support high-speed wireless connection, the transmission speed of 2.4GHz can reach up to 573.5Mbps, the transmission speed of 5GHz can reach up to 1201Mbps
- ⊙ Support 2 2.4G/5G dual-frequency combined antenna interfaces
- ⊙ Support wireless probe, it can realize personal positioning function with location engine
- ⊙ Support SNMP network management and Trap alarm
- ⊙ Support multiple SSID settings and provide SSID hiding function
- ⊙ Support Wireless encryption methods of WPA/WPA2/WPA3 personal edition and WPA2/WPA3 enterprise edition, AC management can specify AC device information for oriented management
- ⊙ Roaming proxy can realize roaming proxy host across network segments, effectively avoiding the data interruption caused by the failure to update the forwarding list of upper-level device in time
- ⊙ Support IP filtering, MAC filtering, URL filtering, port forwarding, port redirection, ARP

- binding, DMZ isolation area and other firewall functions
- Support wireless user management and user event, and support blacklist and whitelist filtering rules, wireless user online/offline notification
- WMM can achieve better transmission quality of voice, video and other applications in wireless networks
- Network detection can realize network diagnosis and specific network recovery operations

Dimension

Unit: mm



Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE802.11a/b/g/n/ac/ax for WLAN IEEE802.11i for wireless security IEEE802.11r for fast roaming IEEE802.11e for WMM
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<p>Working Mode</p>	<p>Routing mode (WAN: PPPoE dial-up, static IP, DHCP dynamic IP acquisition) AP mode (LAN: static IP, DHCP dynamically acquiring IP) Bridge mode (connection: WDS bridge, universal bridge; point-to-point, roaming) Client mode (connection: WDS bridge, universal bridge, wireless NAT; point-to-point, roaming)</p>
<p>WLAN</p>	<p>Encryption mode of WAP/WAP2/WAP3 personal edition and WPA2/WPA3 enterprise edition, hidden wireless SSID, wireless user isolation, wireless transmission power adjustment, maximum user limit, RTS threshold, China/US wireless channel, WMM</p>
<p>Management</p>	<p>Intranet settings, extranet settings, wireless settings, AC management, SNMP management, QoS management, AP roaming control, roaming agent, user settings, system upgrade, timed restart, profile update, system log, wireless user list, and Wi-Fi real-time traffic monitoring, log management, time settings, access settings and diagnostic Tools</p>
<p>Security Policy</p>	<p>Wireless user black/white list, wireless user event notice, IP filtering, MAC filtering, URL filtering, port forwarding, port redirection, ARP binding, DMZ settings, access settings</p>
<p>Routing/Switching</p>	<p>Static routing (routing mode, wireless NAT)</p>
<p>Location Service</p>	<p>Wireless probe</p>
<p>Troubleshooting</p>	<p>Network Detection</p>
<p>Time Management</p>	<p>NTP Client</p>
<p>Radio Frequency</p>	<p>802.11b/g/n/ax: 2.412GHz~2.4835GHz 802.11a/n/ac/ax: 5.18GHz~5.825GHz RF power output: 20dBm Modulation methods: DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM, 256-QAM, 1024QAM</p>
<p>Receiving Sensitivity</p>	<p>802.11b: -87dBm@1Mbps, -76dBm@11Mbps 802.11g/a: -82dBm@6Mbps, -65dBm@54Mbps 802.11n: -82dBm@MCS0, -64dBm@MCS7 802.11ac: -82dBm@MCS0, -57dBm@MCS9 802.11ax: -82dBm@MCS0, -52dBm@MCS11</p>

Transmitting Power 802.11b: 23dBm@1Mbps, 20dBm@11Mbps
 802.11g/a: 23dBm@6Mbps, 20dBm@54Mbps
 802.11n: 23dBm@MCS0, 18dBm@MCS7
 802.11ac: 23dBm@MCS0, 18dBm@MCS9
 802.11ax: 23dBm@MCS0, 18dBm@MCS11

Interface	Gigabit copper port: 1 10/100/1000Base-T(X) RJ45 port is LAN port Gigabit SFP: 1 1000Base-X SFP slot, which is LAN/WAN port Antenna interface: 2 2.4G/5G dual-frequency SMA-K antenna interfaces Console port: CLI command management port(RS-232), using 3-pin 2.54mm pitch terminal blocks
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Power Supply 9~24VDC, support anti-reverse connection and slow start-up, using 3-pin 5.08mm pitch terminal blocks

Indicator	Power indicator, running indicator, alarm indicator, 2.4G indicator, 5.8G indicator, bridge signal strength indicator, interface indicator
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Power Consumption and Current

Temperature	Transmission Power (dBm)	Voltage (VDC)	Start-up current (A)	Power Consumption of Full Mean Load (W)	Power Consumption of Full Peak Load (W)
Normal Temperature (25°C)	20	9	0.549	11.612	15.921
		12	0.407	11.251	14.628
		18	0.278	11.105	15.174
		24	0.200	11.079	15.672
	27	9	0.560	13.247	18.243
		12	0.419	12.919	21.156
		18	0.286	12.834	22.716
		24	0.217	12.956	20.136
High temperature (75°C)	20	9	0.601	12.148	15.921
		12	0.448	11.800	15.54
		18	0.302	11.756	14.796
		24	0.232	11.796	15.912
	27	9	0.694	14.170	18.243
		12	0.444	13.446	20.952
		18	0.299	13.370	20.592
		24	0.228	13.350	24.12

Working Environment	Operating temperature: -40~75°C Storage temperature:-40~85°C Relative humidity: 5%~95% (no condensation)
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Physical Characteristic	Shell: null Installation: embedded mounting Dimension (W x H x D): 85mm×14.7mm×138mm Weight: 0.17kg
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Authentication	CE, FCC, RoHS
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Warranty	3 years
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Ordering Information

Available Models	2.4G/5G Dual-Band Antenna Interface	Gigabit SFP	Gigabit Copper Port	Power Supply
IAP3500-2E-1GT1GS-LV	2	1	1	9~24VDC



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