



## IAP2300R-4A25-2GT-P12\_48

Wall or Rail Mounting

Industrial Roaming Wireless AP

- Support 2 Gigabit copper ports, 2 2.4G WIFI antenna interfaces, and 2 5G WIFI antenna interfaces etc.
- Support WLAN wireless hotspot function
- Support dual power supply, input voltage: 12~48VDC
- WAN port supports PoE 48VDC power supply input
- Support -40~75°C wide operating temperature range



2.4G 5G



## Introduction

IAP2300R-4A25-2GT-P12\_48 is industrial roaming wireless AP. This product supports 2 Gigabit copper ports and 4 antenna interfaces, etc. It adopts wall or rail mounting, which can meet the requirements of different application scenes.

This device supports four work modes, including routing, AP, network bridge and client. It supports IEEE802.11a/b/g/n/ac wireless technology, the transmission rate of which can reach 867Mbps, which can meet the requirements of quick data transmission. The device supports WEP SHARED, WPA2-PSK and other wireless encryption methods, with SSID hiding, wireless user isolation, MAC address filtering, ARP binding, DMZ setting and other security policies; supports virtual AP, that is, an AP device supports multiple SSID; supports fast roaming, that is, in the WLAN (Wireless Local Area Network) constituted by multiple AP, user can achieve fast roaming without conducting the switching operation.

The input power supply is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. WAN port supports 48VDC PoE power supply input and can save power supply cost. DIP switch can realize device root and restoring factory defaults. When power supply or link has link failure, ALM indicator will be bright and send out alarm, meanwhile, alarm device connected to the relay will send out alarm for rapid scene troubleshooting. The hardware adopts fanless, low power consumption, wide temperature and wide pressure design, which can be widely used in the scenes demanding for wireless roaming, such as AGV cars and industrial robots in factory automation, petrochemical industry, power monitoring and so on.

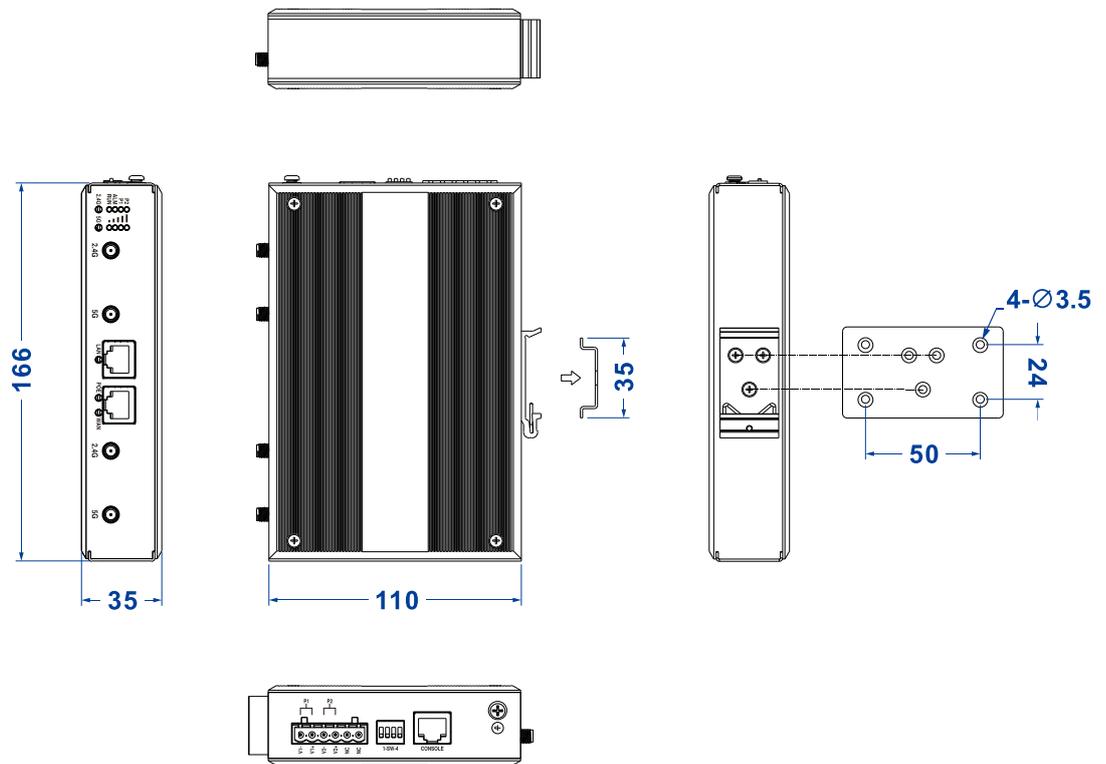
## Features and Benefits

- ⊙ Support work modes including routing, AP, network bridge and client
- ⊙ Support high-speed wireless connection, the transmission speed of 2.4GHz could reach up to 300Mbps and 5.8GHz could reach up to 867Mbps, the total wireless bandwidth is about 1200Mbps
- ⊙ Support dual-band MU-MIMO, 4 spatial flows
- ⊙ Support multi-AP fast roaming technology, and the switching time is less than 50ms
- ⊙ Support wireless probe, it can realize personal positioning function with location engine
- ⊙ Support multiple SSID settings and provide SSID hiding function
- ⊙ Support multiple firewall functions, including port forwarding, ARP binding, DMZ isolation etc.
- ⊙ Support WEP/WPA/WPA2 authentication function
- ⊙ Support wireless user management and flow monitoring
- ⊙ Support hardware watchdog, which ensures the reliability of the system
- ⊙ -40~75°C large range operating temperature

- Strong anti-interference ability and high defensiveness, which can adapt to all kinds of severe environments easily

## Dimension

Unit:mm



## Specification

Standard & Protocol	<p>IEEE802.11a/b/g/n for WLAN                  IEEE802.11i for wireless security                  IEEE802.11r for fast roaming                  IEEE802.3af/at for PoE/PoE+                  IEEE802.11ac for MU-MIMO                  IEEE 802.3 for 10BaseT                  IEEE 802.3u for 100Base-T                  IEEE802.3ab for 1000Base-TX</p>
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Network Security

MAC Filtering, IP Filtering, URL Filtering, WPA2-PASK and WEP SHARED Encryption, DMZ

## Your Reliable Industrial Communication Expert

WIFI Transmission Rate	<p>802.11n: 6.5~300Mbps              802.11b: 11/5.5/2/1Mbps              802.11g/a: 54/48/36/24/18/12/9/6Mbps              802.11ac: 65Mbps ~ 867Mbps</p>
WIFI RF	<p>2.4G Channel: 2.401GHz~2.483GHz              5G channel: 5.170GHz~5.330GHz, 5.490GHz~5.650GHz,              5.735GHz~5.835GHz              RF power output: 23dBm              Modulation methods: DBPSK, DQPSK, CCK, OFDM, 16-QAM,              64-QAM</p>
WIFI Receiving Sensitivity	<p>802.11n_HT40: -82dBm@MCS0, -64dBm@MCS7              802.11n_HT20: -85dBm@MCS0, -67dBm@MCS7              802.11g/a: -91dBm@6Mbps, -72dBm@54Mbps              802.11b: -93dBm@1Mbps, -87dBm@11Mbps              802.11ac: -84dBm@MCS0, -59dBm@MCS9</p>
WIFI Transmission Power	<p>802.11n_HT40: 23dBm@MCS0, 20dBm@MCS7              802.11n_HT20: 23dBm@MCS0, 20dBm@MCS7              802.11g/a: 23dBm@6Mbps, 20dBm@54Mbps              802.11b: 23dBm@1Mbps, 20dBm@11Mbps              802.11ac: 23dBm@MCS0, 20dBm@MCS9</p>
Interface	<p>Copper port: 2 10/100/1000Base-T(X) RJ45 ports, 1 LAN + 1 WAN              Antenna interface:              2 2.4G WIFI antenna interfaces, RP-SMA-K type (Female)              2 5G WIFI antenna interfaces, RP-SMA-K type (Female)</p>
Indicator	<p>2.4G WLAN indicator, 5G WLAN indicator, running indicator, power supply indicator, alarm indicator, WAN port connection indicator, LAN port connection indicator, WLAN bridging quality indicator, PoE indicator</p>
Physical Characteristic	<p>Installation: wall or Rail mounting              Dimension (W x H x D): 35mm×166mm×110mm              Weight: 579g</p>
Working Environment	<p>Operating temperature: -40~75℃              Storage temperature: -40~85℃              Relative humidity: 5%~95% (no condensation)</p>
Power Requirement	<p>Support dual power supply redundancy, voltage range: 12~48VDC              support non-polarity, anti-reverse connection, built-in overcurrent 2.0 protection</p>

## Your Reliable Industrial Communication Expert

	WAN port supports 48VDC power supply input
Power Consumption	No-load: 3.12W@24VDC Full-load: 9.87W@24VDC
Certification	CE, FCC, RoHS



## Ordering Information

Available Models	Gigabit WAN With PoE	Gigabit LAN	2.4G wireless	5G Antenna	Power Supply
IAP2300R-4A25-2GT-P12_48	1	1	2	2	12~48VDC or 48VDC PoE



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