



## IAP2300C-2A22-1T-1D-P12\_36

DIN-Rail or Wall Mounting  
Industrial Wireless Client

- Support 1 100M LAN port, 1 3IN1 serial port, 2 IO ports (reserved) and 2 2.4G antenna interfaces
- Support seamless roaming
- Support multiple serial port operating modes like RealCom, TCP Server, TCP Client, UDP Server, UDP Client, etc.
- Support 12~36VDC power supply input
- Support -40~75°C wide operating temperature range



## Introduction

IAP2300C-2A22-1T-1D-P12\_36 is a 100M industrial wireless client. This product provides 1 100M LAN port, 1 3IN1 serial port, 2 IO ports (reserved) and 2 2.4G antenna interfaces. It also adopts rail or wall mounting, which can meet the requirements of different application scenes.

The network management system supports dual link working mode and IEEE802.11b/g/n wireless technology. The maximum rate of the whole machine can reach 150Mbps, which meets the demand of fast data transmission. Each serial port supports 4 TCP or UDP session connections, supporting RealCom, TCP Server, TCP Client, UDP Server, UDP Client and other working modes; The device supports single link fast roaming and double link seamless roaming. In wireless local area network composed of multiple APs, seamless roaming can be realized without AP switching operation.

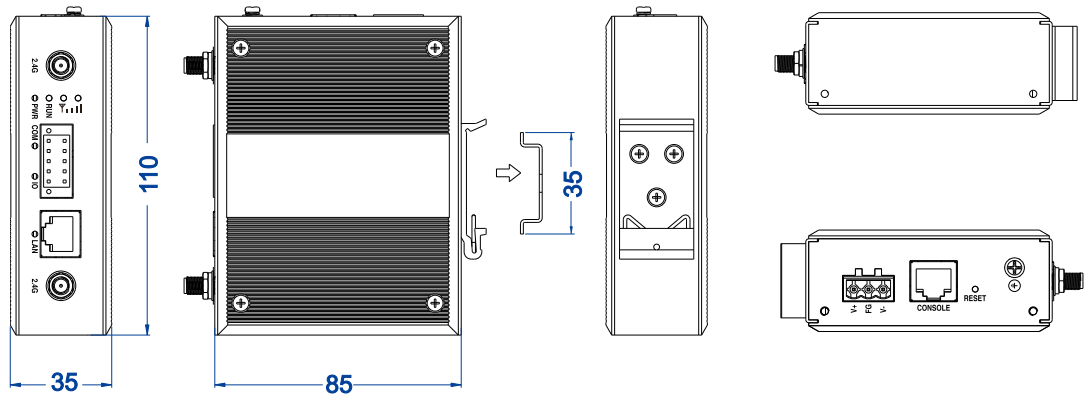
RESET button can realize WLAN debugging and one-key factory default restoration. The hardware adopts fanless, low power consumption, wide temperature, wide pressure design, through strict testing in line with industry standards, can adapt to the harsh requirements of the industrial site environment, can be widely used in the robot industry: sorting robot, small freight robot, etc.

## Features and Benefits

- ⦿ Support dual link working mode;
- ⦿ Support 802.11r-based single-link fast roaming and dual-link seamless roaming technology;
- ⦿ Support 300bps-115200bps line speed and non-blocking communication
- ⦿ Support a variety of serial working modes : RealCom, TCP Server, TCP Client, UDP Server, UDP Client, Pair Master, Pair Slave, UDP Rang, UDP Multicast and other operating modes
- ⦿ -40~75℃ 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	IEEE 802.3 for 10Base-T IEEE802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE802.11b/g/n for WLAN IEEE802.11i for wireless security IEEE802.11r for fast roaming
Working mode	Dual-link mode
Radio Frequency	802.11b/g/n: 2.412GHz~2.4835GHz RF power output: 20dBm Modulation methods: DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM
Receiving sensitivity	802.11n_HT40: -82dBm@MCS0, -64dBm@MCS7 802.11n_HT20: -85dBm@MCS0, -67dBm@MCS7 802.11g: -91dBm@6Mbps, -72dBm@54Mbps 802.11b: -93dBm@1Mbps, -87dBm@11Mbps
Transmitting power	802.11n_HT40: 20dBm@MCS0, 20dBm@MCS7 802.11n_HT20: 20dBm@MCS0, 20dBm@MCS7 802.11g: 20dBm@6Mbps, 20dBm@54Mbps 802.11b: 20dBm@1Mbps, 20dBm@11Mbps
Interface	LAN port: 1 10/100Base-T(X) RJ45 port; 1 3IN1 serial port +2 IO ports (reserved) : 2*5 pin terminal blocks; Console port: CLI command management port(RS-232), RJ45; Antenna: 2 RP-SMA-K type (Female) interfaces

Power Supply	12~36VDC, Support anti - reverse connection, 3-pin 5.08mm pitch terminal blocks
Power Consumption (high temperature)	No-load: 2.9W@24VDC Full-load: 4.2W@24VDC
Indicator	Device running status indicator, power connection status indicator, COM indicator, IO indicator, LAN port connection indicator, signal strength indicator
Working Environment	Operating temperature: -40~75℃ Storage temperature:-40~85℃ Relative humidity: 5%~95% (no condensation)
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail or wall mounting Weight: 322g Dimension (W x H x D): 35mm×110mm×85mm
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 3 <ul style="list-style-type: none"><li>● Air discharge: ±8kV</li><li>● Contact discharge: ±6kV</li></ul> IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3 <ul style="list-style-type: none"><li>● Power supply: ±2kV</li><li>● Ethernet port: ±1kV</li></ul> IEC 61000-4-5 (Surge), Level 3 <ul style="list-style-type: none"><li>● Power supply: common mode±2kV, differential mode±1kV</li><li>● Ethernet port: ±2kV</li></ul> Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
MTBF	>1 million hours
Authentication	CE, FCC, RoHS
Warranty	5 years

# Ordering Information

Available Model	100M LAN	Serial Port	IO Ports (Reserved)	2.4G Antenna Interface	Power Supply
IAP2300C-2A22 -1T-1D-P12_36	1	1	2	2	12~36VDC



Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road,  
Nanshan District, Shenzhen, 518108, China  
TEL.: +86-755-26702668 ext 835 FAX: +86-755-26703485  
E-mail: ics@3onedata.com  
Website: www.3onedata.com

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