# IAP2312N-2T

**2.4GHz Industrial Wireless AP**

**1-way 100M LAN port + 1-way 100M WAN port (POE powered) + 2-way omnidirectional antennas**

## Features

◎ Supports IEEE802.3, IEEE802.3u, IEEE802.11b/g/n, IEEE802.11i, IEEE802.11r standard

◎ Supports 1-way 10/100Base-T(X) LAN port and 1-way 10/100Base-T(X) WAN port

◎ Supports two power supply modes, 12~48VDC terminal blocks power supply and POE 48VDC power supply

◎ Supports 2 x 2 MIMO technology, it provides 1.5KV isolation protection for antenna and power supply

◎ Supports route, AP, Bridge, client four work modes

◎ Supports multiple AP seamless roaming technology

◎ Supports multiple SSID setting and provides SSID concealing function

◎ Supports port forwarding, ARP binding, DMZ isolation area and other firewall functions

◎ Supports wireless user management

◎ Supports wide temperature range operation and storage, working temperature -40~75℃, storage temperature -40~85℃

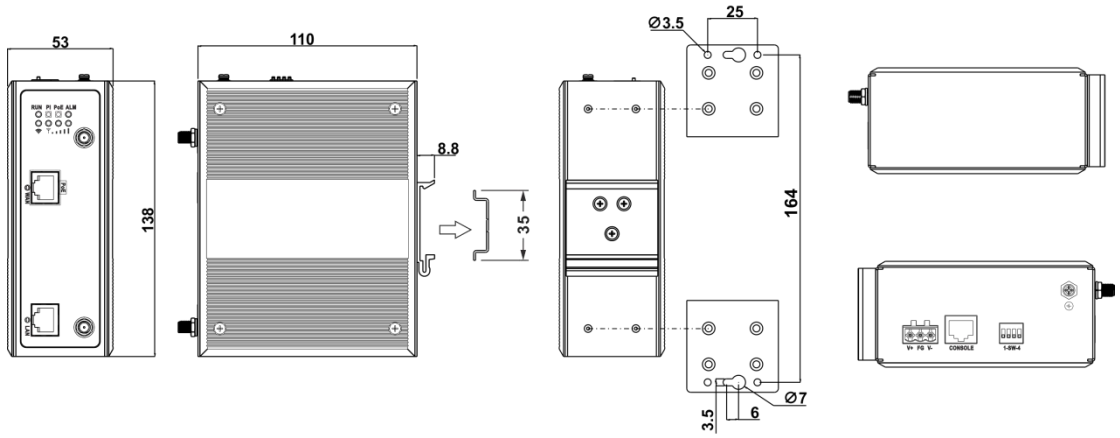
◎ IP40 protection grade, DIN-rail mounting

## Introduction

IAP2312N-2T is an industrial wireless AP, it supports route, AP, bridge, client four working modes and IEEE802.11b/g/n wireless technology, and wireless transmission speed reaches 300Mbps, which can meet fast data transmission demands. The device supports WEP SHARED, WPA2-PSK and other wireless cipher mode; it possesses SSID concealing, wireless user isolation, MAC address filtering, ARP binding, DMZ setting and other security strategies. Supports virtual AP, that is, an AP device supports multiple SSID; supports seamless roaming, that is, in the WLAN (Wireless Local Area Network) constituted by multiple AP, user can achieve seamless roaming without conducting the switching operation. The product adopts fanless, low power consumption, industrial grade design, all components adopt industrial grade components, which can achieve high reliability and adapt to harsh industrial environment, -40~75℃ working temperature range, it can meet various industrial scenes demands.

## Dimension

Unit (mm)




## Specification

**Standard**

Standard: IEEE802.3, IEEE802.3u, IEEE802.11b/g/n, IEEE802.11i, IEEE802.11r, IEEE802.3af/at

Protocol: TCP/IP, DHCP, PPPOE, ICMP, ARP, HTTP

**Wireless Transmission Speed**

802.11n: 6.5~300Mbps

802.11b: 11/5.5/2/1Mbps

802.11g: 54/48/36/24/18/12/9/6Mbps

**Radio Frequency**

Channel: 2.412GHz~2.4835GHz

RF power output: 20dBm

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

Transmitted 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

Modulation system: DBPSK, DQPSK, CCK, OFDM, 16-QAM, 64-QAM

**Indicator**

Device running status indicator: RUN

Power supply connection status indicator: PI

POE power supply status indicator: PoE

Alarm indicator: ALM

Wireless port connection indicator:

Wireless signal intensity indicator:

LAN port connection status indicator: LAN

WAN port connection status indicator: WAN

**Interface**

LAN port: 1-way 10/100Base-T(X) RJ45 port

WAN port: 1-way 10/100Base-T(X) RJ45 port, supports POE48VDC power supply input

Antenna: 2 RP-SMA (Female) interfaces

**Transfer distance**

Twisted cable: 100M (standard CAT5/CAT5e cable)

**Power supply**

Power supply input: 12~48VDC or 48VDC POE power supply

Input mode: 3-pin 5.08mm pitch terminal block

Power supply supports non-polarity connection

**Consumption**

No-load consumption: < 2W

Full-load consumption: < 3W

**Working environment**

Working temperature: -40~75℃

Storage temperature: -40~85℃

Relative humidity: 5%~95% (no condensation)

**Mechanical structure**

Shell: IP40 protection grade, corrugated high strength mental shell

Mounting method: DIN-rail or wall-mounted (optional accessories)

Size (L×W×H): 138mm×110mm×35mm

Weight: 0.57kg

**Industry standard**

EMI: FCC Part 15, CISPR (EN55022) class A

EMS:

IEC 61000-4-2 (ESD), Level 3

- Contact: 6 kV
- Air: 8 kV

IEC 61000-4-4 (EFT), Level 3

- Power: 2 kV
- Signal: 1 kV

IEC 61000-4-5 (Surge), Level 3

- Power: common mode 2 kV
  different mode 1 kV
- Signal: common mode 2 kV
  different mode 1 kV

Shock: IEC 60068-2-27

Free fall: IEC 60068-2-32

Vibration: IEC 60068-2-6

**Warranty**

Warranty period: 5 years

**Certification**

CE, FCC, RoHS, UL508 (pending)

See the newest products certification information on 3onedata website