IAP2300-4A25-5T-PD2P12_48

DIN-Rail Mounting

5-Port 100M Industrial Dual-band Wireless AP

- Support 1 100M PoE WAN, 4 100M LAN, 2 2.4G WiFi antennas and 2 5.8G WiFi antennas
- Support multiple network modes such as routing, AP, bridge and client mode.
- Support redundant power supply, power supply input 12~48VDC, and WAN port supports PoE 48VDC power supply input
- Support -40~75℃ wide operating temperature range

CE   FC U.S.A   RoHS   Industrial Grade   +75℃ −40℃   PoE⚡   2.4G 5G

Introduction

IAP2300-4A25-5T-PD2P12_48 is full 100M industrial dual-band Wireless AP, the PoE power supply conforms to IEEE802.3af/at protocol standard. This product provides 100M PoE WAN, 100M PoE LAN, 2 2.4G antenna interfaces, 2 5.8G antenna interfaces, 48VDC PoE or 12~48VDC power supply interface. Support DIN-Rail mounting, which can meet the requirements of different application scenes.

The network management system supports multiple work modes: routing, AP, bridge and client. Support IEEE802.11b/g/n/a/ac wireless technology, the transmission rate is up to 1167Mbps; 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, URL filtering, Port forwarding, Port redirection, ARP binding, DMZ setting, etc. Support virtual AP, that is, one AP device supports multiple SSIDs; Support fast roaming, in wireless local area network composed of multiple APs, fast roaming can be realized without 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. The design of DIP switch could implement device reboot and factory setting recovery. 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 product adopts fanless, low power consumption, wide temperature design, which can adapt to the harsh outdoor environment. It 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 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 300Mbps, the transmission speed of 5.8GHz can reach up to 867Mbps
- ⊙ Support 2×2MIMO and 4 dual-RF omnidirectional antennas
- ⊙ 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 SNMP network management and Trap alarm
- ⊙ Support multiple SSID settings and provide SSID hiding function

- Support WPA/WPA2/WPA3 wireless encryption method and TKIP/AES encryption algorithm
- AC management can specify AC device information to realize directional management
- Supports IP filtering, MAC filtering, URL filtering, port forwarding, 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
- WWM can achieve better transmission quality of voice, video and other applications in wireless networks
- QoS management supports speed limit based on IP and MAC addresses

Dimension

Unit: mm
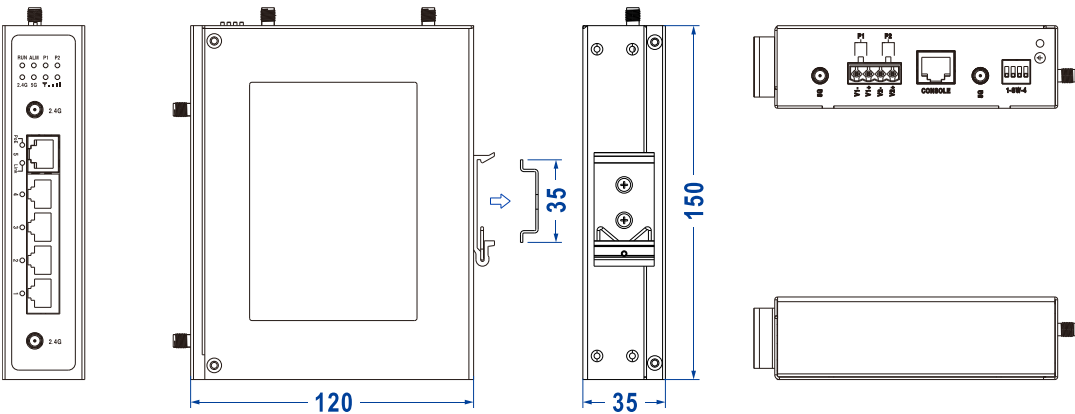
Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE802.3u for 100Base-TX IEEE802.11b/g/n/a/ac for WLAN IEEE802.11i for wireless security IEEE802.11r for fast roaming IEEE802.3af/at for PoE/PoE+
Working Mode	Route mode, AP mode, bridge mode, client mode
Network Settings	Intranet Settings, External Network Settings, Wireless Settings, Wireless Probe, AC Management, SNMP Management, QoS Management, Roaming Agent

Wireless Client	User list, user event
Firewall (Route mode/Wireless NAT)	IP filtering, MAC filtering, URL filtering, port forwarding, Port redirection, ARP binding, DMZ settings
System Tools	Network detection, User settings, System upgrading, System Restart, System log
Radio Frequency	802.11b/g/n:2.412GHz~2.4835GHz 802.11ac/n/a:5.18GHz~5.825GHz 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/a:-91dBm@6Mbps, -72dBm@54Mbps 802.11b:-93dBm@1Mbps, -87dBm@11Mbps 802.11ac:-84dBm@MCS0, -59dBm@MCS9
Transmitting Power	802.11n_HT40:20dBm@MCS0, 20dBm@MCS7 802.11n_HT20:20dBm@MCS0, 20dBm@MCS7 802.11g/a:20dBm@6Mbps, 20dBm@54Mbps 802.11b:20dBm@1Mbps, 20dBm@11Mbps 802.11ac:20dBm@MCS0, 20dBm@MCS9
Interface	WAN port: 1 10/100 Base-T(X) RJ45port, support POE 48VDC power supply input LAN port: 4 10/100Base-T(X) RJ45 ports Antenna: 2 2.4G RP-SMA-K (Female) interfaces 2 5.8G RP-SMA-K (Female) interfaces Console port: CLI command management port(RS-232), RJ45
Power Supply	12~48VDC dual power supply redundancy, support non-polarity, 4-pin 5.08mm pitch terminal block; WAN port supports PoE 48VDC power supply input
Indicator	Running indicator, Alarm indicator, Power indicator, 2.4G indicator, 5.8G indicator, WLAN bridge signal strength indicator, PoE indicator
Power Consumption	No-load: 3.0W@24VDC Full-load: 7.9W@24VDC(high temperature)
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 mounting Weight: 0.57kg Dimension (W x H x D): 35mm×150mm×120mm
Industrial Standard	IEC 61000-4-2 (ESD, electrostatic discharge), Level 3 ● Air discharge: ±8kV ● Contact discharge: ±6kV IEC 61000-4-4 (EFT, electrical fast transient pulses), Level 3 ● Power supply: ±2kV ● Ethernet port: ±1kV IEC 61000-4-5 (Surge), Level 3 ● Power supply: common mode±2kV, differential mode±1kV ● Ethernet port: ±2kV Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Authentication	CE, FCC, RoHS
Warranty	5 years

Ordering Information

Available Models	2.4G Antenna Interface	5.8G Antenna Interface	100M PoE WAN	100M LAN	Power Supply
IAP2300-4A25-5T-PD2P12_48	2	2	1	4	PoE 48VDC, Dual power supply 12~48VDC