IAP-420 / IAP-420+

Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100Base-T(X)

Features

- High Speed Air Connectivity: WLAN interface support up to 150 Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/ WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- Provide 2 port 10/100Base-T(X) Ethernet ports
- Support X-Roaming < 100 ms
- Support AP/Client/Bridge/AP-Client Mode
- Support Multiple-SSID to 4 SSID
- Secured Management by HTTPs
- Wireless connecting status monitoring
- Event Warning by Syslog, Email, SNMP Trap
- 1KV isolation for PoE P.D. port of IAP-420+
- Rigid IP-30 housing design
- DIN-Rail and Wall-mount enabled



Introduction

IAP-420 / IAP-420+ series are reliable 802.11 b/g/n WLAN Access Point with 2 ports LAN. It supports 802.1X and MAC filters for security control. It can be configured to operate in AP/Bridge/Repeater/AP-Client mode. You are able to configure IAP-420 / IAP-420+ series by WEB interface via LAN port or WLAN interface. In addition, IAP-420+ also provides P.D. feature on ETH1 which is fully compliant with IEEE802.3af PoE P.D. specification. Therefore, IAP-420 / IAP-420+ series are one of the best communication solutions for wireless applications on the industrial network.

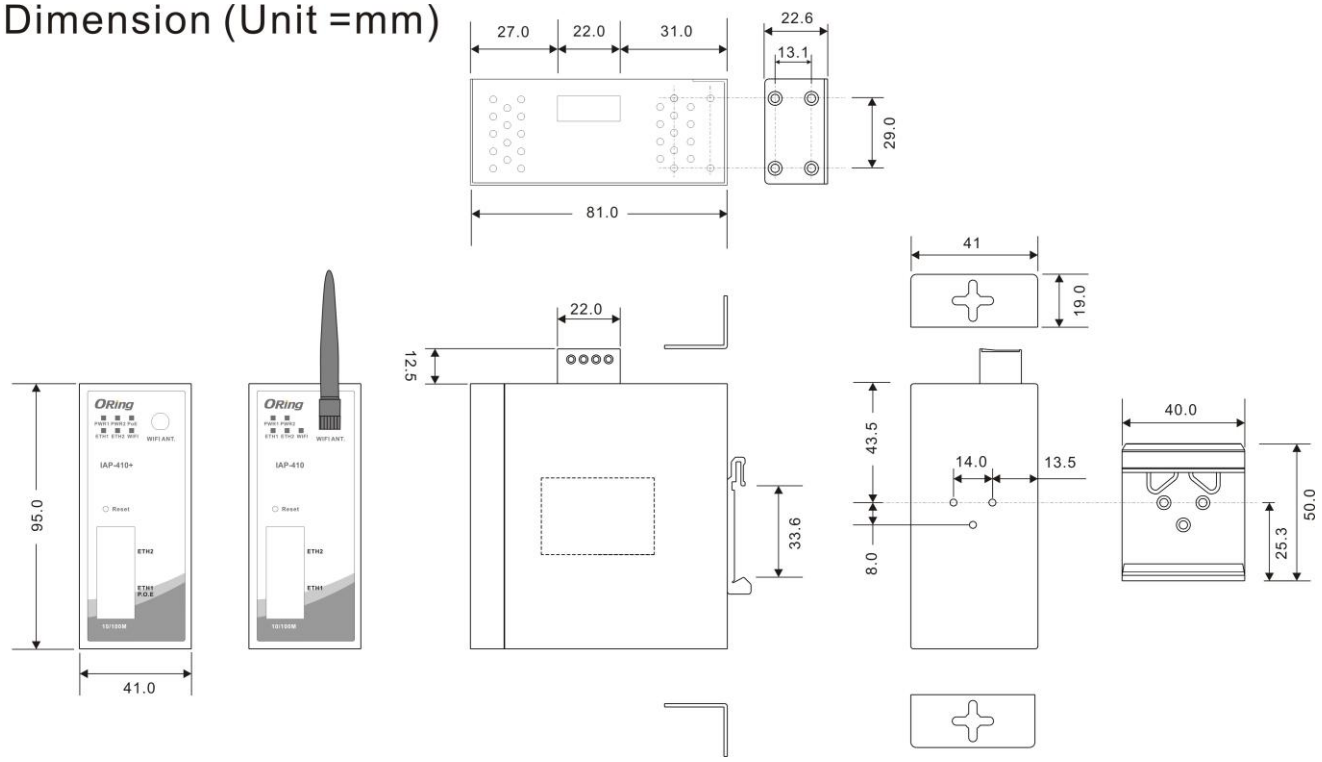
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Application

In practical operation of wireless access point, Windows utility (Open-Vision) is supported. This utility is very helpful for you to search and configure IP of access point on the industrial network. In addition, the wireless access point support various kinds of operation modes include AP/ Bridge/Repeater/AP-Client mode. IAP-420 / IAP-420+ series also support PoE P.D. feature to extend the layout up to 100 meters. You can build up the wireless network easily.

Dimension

Dimension (Unit =mm)



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Specifications

ORing WLAN Access Point Model	IAP-420	IAP-420+
Physical Ports		
10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX	**2**	
PoE P.D. port	-	Present at ETH1 Fully compliant with IEEE 802.3af Power Device specification Over load & short circuit protection Isolation Voltage: 1000 VDC min. Isolation Resistance : 10^8 ohms min
WLAN interface		
Operating Mode	AP/Bridge/AP-Client	
Antenna Connector	1 x External reverse SMA-type antenna connector	
Radio Frequency Type	DSSS, OFDM	
Modulation	IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g/n: OFDM with BPSK, QPSK, 16QAM, 64QAM	
Frequency Band	America / FCC: 2.412~2.462 GHz (11 channels) Europe CE / ETSI: 2.412~2.472 GHz (13 channels)	
Transmission Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n(40MHz): UP to 150 Mbps	
Transmit Power	802.11b: 13.5dBm ±1.5dBm 802.11g: 13.5dBm ±1.5dBm 802.11n(2.4G@20MHz): 13.5dBm ±1.5dBm 802.11n(2.4G@40MHz): 13.5dBm ±1.5dBm	
Receiver Sensitivity	802.11b: -90dBm ±2dBm@1Mbps 802.11g: -72dBm ±2dBm@54Mbps 802.11n(2.4G@40MHz,MCS7): -68dBm ±2dBm	
Encryption Security	WEP: (64-bit, 128-bit key supported) WPA/WPA2:802.11i (WEP and AES encryption) WPA-PSK (256-bit key pre-shared key supported) 802.1X Authentication supported TKIP encryption	
Wireless Security	SSID broadcast disable and enable	
Protocol Support		
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, 802.1X, SNMP, STP	
LED indicators		
Power indicator	LED x 3, PWR 1, 2, (PoE): Green On: Power is on and functioning Normally.	
10/100Base-T(X) RJ45 port indicator	LED x 2 , Green for port Link/Act at 100Mbps.	
WLAN LEDs	WLAN Link /ACT: Green: Blinking	
Power		
Redundant Input power	Dual DC inputs. 12~48VDC on 4-pin terminal block	

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Power consumption (Typ.)	4watts	
Overload current protection	Present	
Reverse polarity protection	Present	
Physical Characteristic		
Enclosure	IP-30	
Dimension (W x D x H)	41(W)x81(D)x95(H) mm	
Weight (g)	292	297
Environmental		
Storage Temperature	-40 to 85°C (-40 to 185°F)	
Operating Temperature	-10 to 60°C (14 to 140°F)	
Operating Humidity	5% to 95% Non-condensing	
Regulatory approvals		
EMI	FCC Part 15, CISPR (EN55022) class A	
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
Safety	EN60950-1	
Warranty	3 years	

Ordering Information

IAP-ABOC

Code Definition	Wireless Mode	10/100 Base-T(X) Port Number	PoE Identification
Option	**- 1:** 802.11 b/g **- 2:** 802.11 a **- 3:** 802.11 a/b/g **- 4:** 802.11 b/g/n **- 5:** 802.11 a/n **- 6:** 802.11 a/b/g/n	**-"2": 2** ports	**-"+":** PoE P.D. present at ETH1

	Model Name	Description
Available Model	**IAP-420_US**	Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100Base-T(X), US band
	IAP-420_EU	Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100Base-T(X), EU band
	IAP-420+_US	Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100Base-T(X), 1-port PoE P.D., US band
	IAP-420+_EU	Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100Base-T(X), 1-port PoE P.D., EU band

Packing List

- **IAP-420/420+ x 1**
- **CD x 1**
- **Quick Installation Guide x 1**
- **Antenna x 1**
- **Din-Rail Kit x 1**
- **Wall-Mount Kit x 1**

Optional Accessories

- **DR-45 series : 45 Watts power supply**
- **DR-75 series : 75 Watts power supply**
- **DR-120 series : 120 Watts power supply**
- **WLAN RF Antenna (Omni-directional) series**
- **RF Antenna Base (Magnetic) series**
- **RF Cable series**
- **RF Surge Protector**

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