

IGAP-420 / IGAP-420+

Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100/1000Base-T(X)

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Features

- High Speed Air Connectivity: WLAN interface support up to 300Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/ WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- Support X-Roaming < 60 ms</p>
- Support wireless load balance
- Support MAC Filter
- Support Long Distance Air Connectivity
- Provide Digital Input and Digital Output
- Support AP/Bridge/Repeater/AP-Client Mode
- Support Multiple-SSID to 4 SSID
- Switch Mode Supported: Daisy Chain support to reduce usage of switch ports
- > Dual redundant Ethernet port support redundant mode
- Wireless connecting status monitoring
- Secured Management by HTTPS
- Event Warning by Syslog, Email, SNMP Trap, Relay and Beeper
- Rigid IP-30 housing design
- DIN-Rail and Wall-mount enabled



















IGAP-420 series is a reliable WLAN Access Point with 2 Ethernet Gigabit ports and IEEE 802.11 b/g/n wireless module. It can be configured to operate in AP/Bridge/Repeater/AP-Client mode. You are able to configure IGAP-420 / IGAP-420+ by WEB interface via LAN port or WLAN interface. IGAP-420 series provides dual Ethernet ports in switch mode, so that you can use Daisy Chain to reduce the usage of Ethernet switch ports. In addition, IGAP-420+ also provides P.D. feature on ETH2 port which is fully compliant with IEEE802.3af PoE P.D. specification. Therefore, IGAP-420 series is one of the best communication solutions for wireless applications on the industrial network.

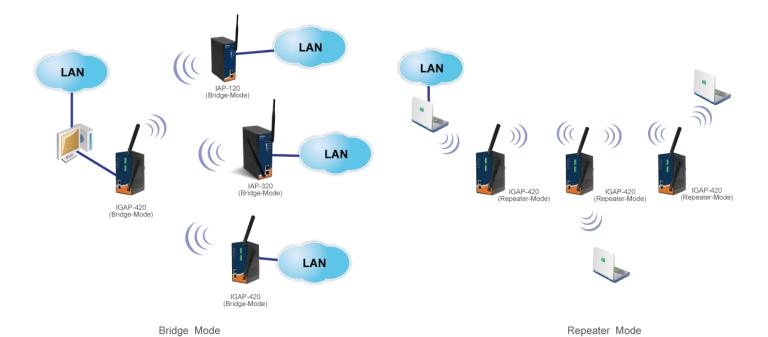


Application

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. You can build up the wireless network easily

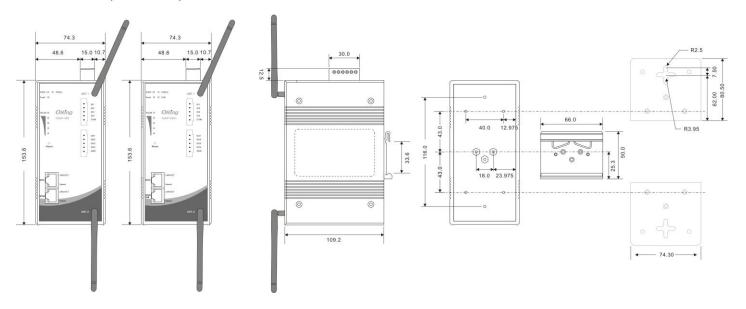




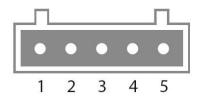


Dimension

Dimension (Unit =mm)



DI/DO Definition



Digital Input Pin Definition

PIN	1	2	3	4	5
Function	DI1	DI2	DI3	DI4	СОМ

Digital Output Pin Definition

PIN	1	2	3	4	5
Function	DO1	DO2	DO3	DO4	GND

Specifications

ORing WLAN Access Point Model	IGAP-420	IGAP-420+
Physical Ports		
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX	2	2
5-Pin Terminal Block	2(DI x 4 and DO x 4)	
Antenna Connector	2	2
PoE P.D Port	-	Present at ETH2 Fully compliant with IEEE 802.3af Power Device specification Over load & short circuit protection Isolation Voltage: 1000 VDC min. Isolation Resistance: 108 ohms min
WLAN interface		
Operating Mode	AP/Bridge/Repeater/AP-Client	
Antenna Connector	Reverse SMA Female	
Modulation	IEEE802.11b: CCK/DQPSK/DBPSK IEEE802.11g: OFDM IEEE802.11n: BPSK, QPSK, 16-QAM, 64-QAM	
Frequency Band	America/FCC: 2.412~2.462 GHz (11 channels) Europe CE/ETSI: 2.412~2.472 GHz (13 channels)	
Transmission Rate	IEEE 802.11b: 11, 5.5, 2, 1 Mbps; IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps IEEE 802.11n: 20 MHz BW: 130, 117, 104, 78, 52, 39, 26, 13	

	40 MHz BW: 270, 243, 216, 162, 108, 81	, 54, 27		
	IEEE 802.11b: 17dBm ± 1.5dBm@11Mbps			
Transmit Power	IEEE 802.11g: 16dBm ± 1.5dBm@54Mbps			
Transmit Fower	IEEE 802.11gn HT20: 15dBm \pm 1.5dBm @MCS7			
	IEEE 802.11gn HT40: 14dBm ± 1.5dBm @MCS7			
	IEEE 802.11b : $-85dBm \pm 2dBm@11Mbps$			
Receiver Sensitivity	IEEE 802.11g: -76dBm ± 2dBm@54Mbps			
·	IEEE 802.11gn HT20:-75dBm ± 2dBm@MCS7			
	IEEE 802.11gn HT40:-72dBm ± 2dBm@MCS7			
Encryption Security	WEP: (64-bit ,128-bit key) WPA/WPA2 PSK :TKIP and AES encryption (803.11i)			
Eneryption Security	WPA/WPA2 PSK :TKIP and AES encryption (802.11i) 802.1X/RADIUS Authentication supported			
Wireless Security	SSID broadcast disable and enable			
Protocol Support				
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TC	TO LIND DANTILS SNIMD STD (TEEE 802 1D)		
	ARP, BOOTP, DRCP, DNS, HTTP, IP, ICMP, SNTP, TC	P, ODP, RADIUS, SIMIP, STP (IEEE 802.1D)		
LED Indicators				
	3 x LEDs, PWR1(2)(PoE) / Ready:			
Power Indicator	Red On: Power is on and booting up			
40/400/4000B T/V B145 B 4	Green On: Power is on and functioning Normal			
10/100/1000Base-T(X) RJ45 Port Indicator	2 x LEDs, Green for port Link/ Act at 1000Mbps Amber for port Link/ Act at 100Mbps.			
Mulcator	Green Solid On: RF on, Blink: data transmitting			
WLAN LED	Green for WLAN Strength: 1<25%, 2<50%, 3<75%	%. 4<100%		
Fault	*			
Fault contact	1 x 225, red to 2 diamet in a dom or point dom.	· malector		
Tault Contact				
Relay	Relay output to carry capacity of 1A at 24VDC			
Power				
Redundant Input Power	Dual DC inputs. 12~48VDC on 6-pin terminal block			
Power Consumption (Typ.)	7.5W	8.5W		
Overload Current Protection	Present			
Reverse Polarity Protection	Present on terminal block			
Physical Characteristic				
Enclosure	IP-30			
Dimension (W x D x H)	74.3(W) x 109.2(D) x 153.6(H) mm (2.93 x 4.3 x 6	5.05 inch.)		
Weight (q)	1150	1155		
Environmental	1150	1100		
Storage Temperature	-40 to 85°C (-40 to 185°F)			
5 ,				
Operating Temperature Operating Humidity	-25 to 70°C (-13 to 158°F)			
, ,	5% to 95% Non-condensing			
Regulatory Approvals	500 D 1 45 (YORD (FN55000)			
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			
		IEC60068-2-6		
Vibration	IEC60068-2-6			
Vibration Safety	IEC60068-2-6 EN60950-1			

Ordering Information

IGAP-ABOC

Code Definition	Wireless Mode	10/100/1000Base-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 ETH2

	Model Name	Description
	IGAP-420_US	Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100/1000 Base-T(X), US band
Available Model	IGAP-420_EU	Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100/1000 Base-T(X), EU band
	IGAP-420+_US	Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100/1000 Base-T(X), 1 port PoE P.D, US band
	IGAP-420+_EU	Industrial IEEE 802.11 b/g/n wireless access point with 2x10/100/1000 Base-T(X), 1 port PoE P.D, EU band

Packing List

• IGAP-420/IGAP-420+ x 1

• CD x 1

Quick Installation Guide x 1

Antenna x 2

Din-Rail Kit x 1

Wall-Mount Kit x 2

• 6-Pin Terminal Block x 1

• 5-Pin Terminal Block x 2

Dust Cover x 2

Optional Accessories

DR-45 series : 45 Watts power supply

DR-120 series : 120 Watts power supply

RF Antenna Base (Magnetic) series

DR-75 series : 75 Watts power supply

• WLAN RF Antenna (Omni-directional) series

• RF Cable series