

IGAP-620 / IGAP-620+

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

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





















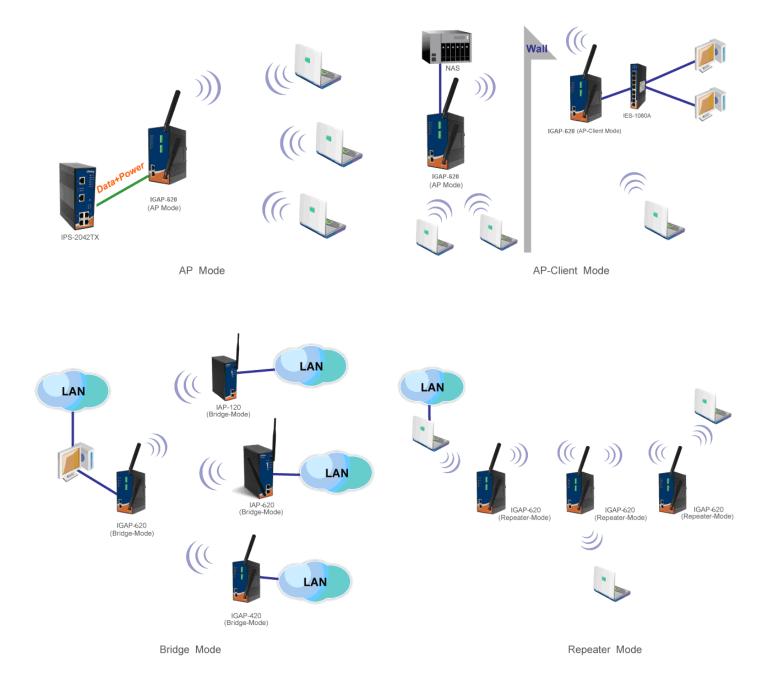
IGAP-620 series is a reliable WLAN Access Point with 2 Ethernet Gigabit ports and IEEE 802.11 a/b/g/n wireless module. It can be configured to operate in AP/Bridge/Repeater/AP-Client mode. You are able to configure IGAP-620 / IGAP-620+ by WEB interface via LAN port or WLAN interface. IGAP-620 series 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-620+ also provides P.D. feature on ETH2 port which is fully compliant with IEEE802.3af PoE P.D. specification. Therefore, IGAP-620 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.

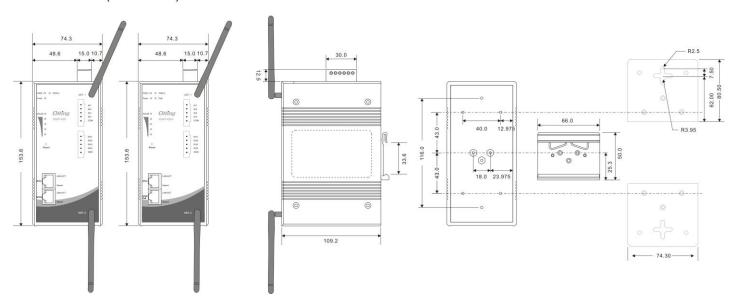
In addition, the wireless access point support various kinds of operation modes include AP/ Bridge/Repeater/AP-Client mode. You can build up the wireless network easily



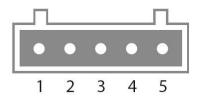


Dimension

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

Specifications			
ORing WLAN Access Point	IGAP-620	IGAP-620+	
Model	IGAP-020		
Physical Ports			
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX	:	2	
5-Pin Terminal Block	2 (DI x 4 and DO x 4)		
Antenna Connector	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	IEEE802.11a: OFDM 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) 5.180~5.240 GHz & 5.745~5.825 GHz (9 channels) Europe CE/ETSI: 2.412~2.472 GHz (13 channels) 5.180~5.240 GHz (4 channels)		

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Transmission Rate	802.11b: 11, 5.5, 2, 1 Mbps; 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps		
	802.11n: up to 300Mbps		
	802.11a: 12dBm ± 1.5dBm@54Mbps		
	802.11b: 17dBm ± 1.5dBm@11Mbps 802.11g: 16dBm ± 1.5dBm@54Mbps		
Transmit Power	802.11g: 16dbm ± 1.5dbm@54MDps 802.11gn HT20: 15dBm ± 1.5dBm @MCS7		
	802.11gn HT40: 14dBm ± 1.5dBm @MCS7		
	802.11an HT20: 12dBm ± 1.5dBm @MCS7		
	802.11an HT40: 11dBm ± 1.5dBm @MCS7 802.11a : -76dBm ± 2dBm@54Mbps		
	802.11b : -85dBm ± 2dBm@11Mbps		
	802.11g: -76dBm ± 2dBm@54Mbps		
Receiver Sensitivity	802.11gn HT20:-75dBm ± 2dBm@MCS7 802.11gn HT40:-72dRm + 2dBm@MCS7		
	802.11gn HT40:-72dBm ± 2dBm@MCS7 802.11an HT20:-74dBm ± 2dBm@MCS7		
	802.11an HT40:-71dBm ± 2dBm@MCS7		
	WEP: (64-bit ,128-bit key)		
Encryption 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, TCP, UE	OP RADIUS SNMP STP (IFFF 802 1D)	
LED Indicators	AN ,500 11 , 511cl , 5103, 1111 , 11 , 1211 , 3111 , 161 , 05	71, (AD103, SMM, 311 (IEEE 002.1D)	
LED Indicators	3 x LEDs, PWR1(2)(PoE)/Ready:		
Power Indicator	Red On : Power is on and booting up		
	Green On: Power is on and functioning Normal		
10/100/1000Base-T(X) RJ45 Port	2 x LEDs, Green for port Link/Act at 1000Mbps		
Indicator	Amber for port Link/Act at 100Mbps. Green Solid On: RF on, Blink: data transmitting		
WLAN LED	Green for WLAN Strength: 1<25%, 2<50%, 3<75%, 4<	100%	
Fault	1 x LED, Red for Ethernet link down or power down indicator		
Fault 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)			
=cc (11 A D A 11)	74.3(W) x 109.2(D) x 153.6(H) mm (2 93 x 4 3 v 6 05 i	nch.)	
,	74.3(W) x 109.2(D) x 153.6(H) mm (2.93 x 4.3 x 6.05 i	•	
Weight (g)	74.3(W) x 109.2(D) x 153.6(H) mm (2.93 x 4.3 x 6.05 i	nch.) 1155	
Weight (g) Environmental	1150	•	
Weight (g) Environmental Storage Temperature	1150 -40 to 85°C (-40 to 185°F)	•	
Weight (g) Environmental Storage Temperature Operating Temperature	1150 -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F)	•	
Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity	1150 -40 to 85°C (-40 to 185°F)	•	
Weight (g) Environmental Storage Temperature Operating Temperature	1150 -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F)	•	
Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity	1150 -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F)	•	
Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals	1150 -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F) 5% to 95% Non-condensing	1155	
Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI	1150 -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F) 5% to 95% Non-condensing FCC Part 15, CISPR (EN55022) class A EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4	1155	
Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI EMS	1150 -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F) 5% to 95% Non-condensing FCC Part 15, CISPR (EN55022) class A EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 EN61000-4-8, EN61000-4-11	1155	
Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI EMS Shock	1150 -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F) 5% to 95% Non-condensing FCC Part 15, CISPR (EN55022) class A EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 EN61000-4-8, EN61000-4-11 IEC60068-2-27	1155	
Weight (g) Environmental Storage Temperature Operating Temperature Operating Humidity Regulatory Approvals EMI EMS Shock Free Fall	1150 -40 to 85°C (-40 to 185°F) -25 to 70°C (-13 to 158°F) 5% to 95% Non-condensing FCC Part 15, CISPR (EN55022) class A EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 EN61000-4-8, EN61000-4-11 IEC60068-2-27 IEC60068-2-32	1155	

Ordering Information



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
Available Model	IGAP-620_US	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000 Base-T(X), US band
	IGAP-620_EU	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000 Base-T(X), EU band
	IGAP-620+_US	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000 Base-T(X), 1-port PoE P.D, US band
	IGAP-620+_EU	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000 Base-T(X), 1-port PoE P.D, EU band

Packing List

• IGAP-620/IGAP-620+ 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