ORing

IGAP-610H+

Industrial IEEE 802.11 a/b/g/n high power wireless AP with 1x10/100/1000Base-T(X), PoE P.D

Features

- ➤ **High Speed Air Connectivity**: Dual Band in IEEE 802.11 a/b/g/n and b/g/n WLAN interface selectable and support up to 300Mbps link speed
- > 12~48VDC power input on terminal block
- > 1 Gigabit Ethernet ports with 2KV isolation for PoE P.D.
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/ WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- Support X-Roaming < 100 ms</p>
- Support Multiple-SSID to 4 SSID with VLAN
- Support MAC Filter
- > High transmission power (27 dBm Max.)
- > High data throughput with HT40 2x2 MIMO
- Support Long Distance Air Connectivity
- Support AP/Client/Repeater
- Wireless connecting status monitoring
- Secured Management by HTTPS
- Event Warning by Syslog, Email, SNMP Trap, and Relay output
- Rigid IP-30 housing design
- DIN-Rail and Wall-mount enabled



















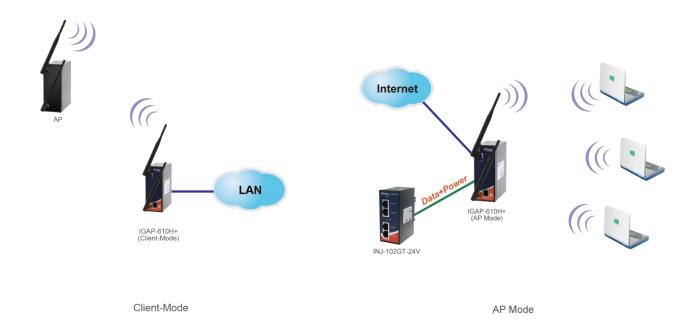
Introduction

IGAP-610H+ is a reliable WLAN Access Point with 1 Ethernet Gigabit ports and IEEE 802.11 a/b/g/n wireless module. It can be configured to operate in AP/Client/Repeater Mode. You are able to configure IGAP-610H+ by WEB interface via LAN port or WLAN interface. In addition, IGAP-610H+ also provides P.D. feature on Ethernet port which is fully compliant with IEEE802.3af PoE P.D. specification. Therefore, IGAP-610H+ is one of the best communication solutions for wireless applications on the industrial network.

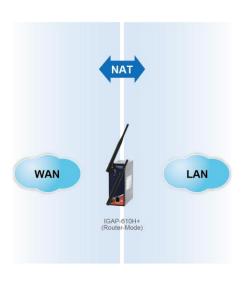
Application

In practical operation of the wireless access point, Windows utility (Open-Vision) is supported. This utility is very helpful for you to search and configure IP of the access point on the industrial network.

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





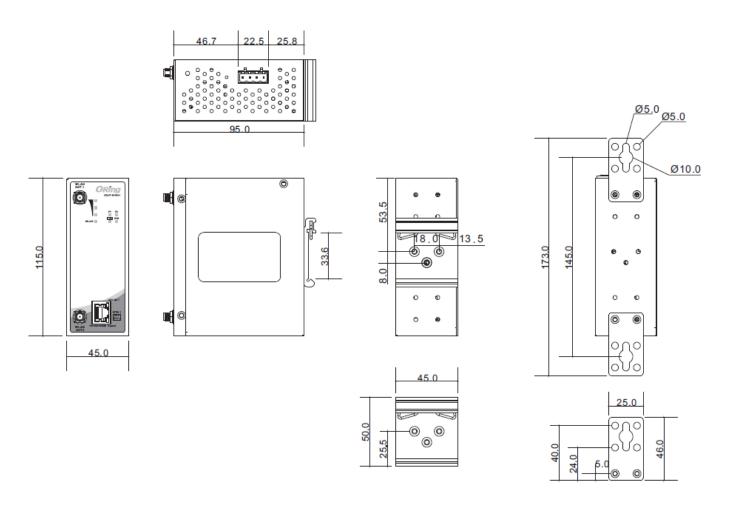


Router-Mode



Dimension

Unit =mm (Tolerance ±0.5mm)



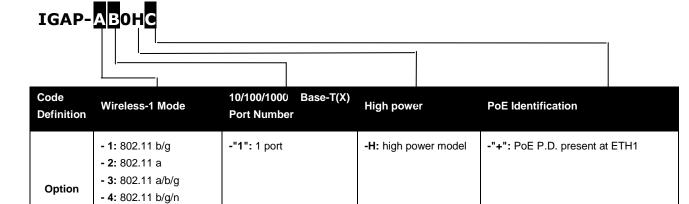
Specifications

ORing WLAN Access Point Model	IGAP-610H+
Physical Ports	
10/100/1000 Base-T(X) Ports in RJ45	
Auto MDI/MDIX	1
Antenna Connector	2
Antenna Connector	
	Present at ETH1
PoE P.D Port	Fully compliant with IEEE 802.3af Power Device specification Over load & short circuit protection
FOL F.D FOIL	Isolation Voltage: 2000 VDC min.
	Isolation Resistance : 10 ⁸ ohms min
WLAN interface	
Operating Mode	AP/Client/Repeater
	D 6W 5 1
Antenna Connector	Reverse SMA Female
	IEEE802.11a: OFDM IEEE802.11b: CCK/DOPSK/DBPSK
Modulation	IEEE802.11g: CCK/DQPSK/DBPSK IEEE802.11g: OFDM
	IEEE802.11n: BPSK, QPSK, 16-QAM, 64-QAM
	America/FCC: 2.412~2.462 GHz (11 channels)
	5.180~5.240 GHz & 5.745~5.825 GHz (9 channels)
Frequency Band	Europe CE/ETSI: 2.412~2.472 GHz (13 channels)
	5.180~5.240 GHz (4 channels)
	802.11b: 11, 5.5, 2, 1 Mbps;
Transmission Rate	802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps
	802.11n: up to 300Mbps
	802.11a: 23dBm ± 1.5dBm@6Mbps, 21dBm ± 1.5dBm@54Mbps
	802.11b: 23dBm ± 1.5dBm@1Mbps, 23dBm ± 1.5dBm@11Mbps
Transmit Power	802.11g: 23dBm ± 1.5dBm@6Mbps, 21dBm ± 1.5dBm@54Mbps
	802.11gn HT20: 20dBm ± 1.5dBm@MCS7, 802.11gn HT40: 20dBm ± 1.5dBm @MCS7
	802.11an HT20: 20dBm ± 1.5dBm@MCS7, 802.11an HT40: 20dBm ± 1.5dBm @MCS7
	802.11a: -93dBm ± 2dBm@6Mbps, -74dBm ± 2dBm@54Mbps
Receiver Sensitivity	802.11b : -98dBm ± 2dBm@1Mbps, -90dBm ± 2dBm@11Mbps 802.11g : -90dBm ± 2dBm@6Mbps, -77dBm ± 2dBm@54Mbps
Receiver Sensitivity	802.11qn HT20:-74dBm ± 2dBm@MCS7, 802.11qn HT40:-71dBm ± 2dBm@MCS7
	802.11an HT20:-71dBm ± 2dBm@MCS7, 802.11an HT40:-68dBm ± 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, UDP, RADIUS, SNMP, STP, RSTP
	7.6.7 500 7.7 51.0.7 51.0.7 51.7 50.7 7.0.7 55.7 7.0.525.5 51.0.7 51.7 7.0.7
LED Indicators	
Power Indicator	3 x LEDs, P1, P2, PoE:
	Green On : Power is on and functioning Normal
	2 x LEDs,
10/100/1000Base-T(X) RJ45 Port	LNK/ACT: Green for port Act. Speed: Green for port Link at 1000Mbps
Indicator	Amber for port Link at 100Mbps.
	Off for port Link at 10Mbps
	3 x LEDs signal quality 75%, 50% 25%
WLAN LED	1 x Green for WLAN Link /Act
SYS	1 x LED, Blink for system booting, Solid for system ready.
Power	
Redundant Input Power	Dual DC inputs. 12~48VDC on 4-pin terminal block

Overload Current Protection	Present
Reverse Polarity Protection	Present on the terminal block
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	45 (W) x 95 (D) x 115 (H) mm
Weight (g)	375g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-10 to 70°C (14 to 158°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory Approvals	
EMC	CE EMC (EN 55024, EN 55032), FCC Part 15B
EMI	EN 55032, CISPR32, EN 61000-3-2, EN 61000-3-3, FCC Part 15B class A
EMS	EN 55024 (IEC/EN 61000-4-2 (ESD), IEC/EN 61000-4-3 (RS), IEC/EN 61000-4-4 (EFT), IEC/EN 61000-4-5 (Surge), IEC/EN 61000-4-6 (CS), IEC/EN61000-4-8(PFMF), IEC/EN 61000-4-11(DIP))
Shock	IEC60068-2-27
Free Fall	IEC60068-2-31
Vibration	IEC60068-2-6
Safety	EN60950-1
MTBF	211477 hrs
Warranty	5 years

Ordering Information

- 5: 802.11 a/n - "6": 802.11 a/b/g/n



	Model Name	Description
Available Model	IGAP-610H+_US	Industrial IEEE 802.11 a/b/g/n high power wireless AP with 1x10/100/1000Base-T(X), PoE P.D, US band
	IGAP-610H+_EU	Industrial IEEE 802.11 a/b/g/n high power wireless AP with 1x10/100/1000Base-T(X), PoE P.D, EU band

Packing List

- IGAP- 610H+ x 1
- 2.4GHz/5GHz Antenna x 2
- Quick Installation Guide x 1

- Din-Rail Kit x 1
- DC power Pigtail Jack
- Terminal Block x 1

Wall Mount kit x 1