



# IGAP-W612H+

Industrial outdoor IEEE 802.11 a/b/g/n wireless access point with  
10/100/1000Base-T(X) PoE P.D., IP-67 grade

## Features

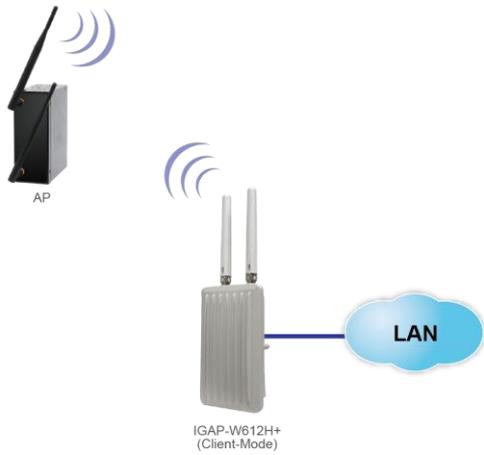
- High-Speed Air Connectivity: Dual Band in IEEE 802.11 a/b/g/n and b/g/n WLAN interface selectable and support up to 300Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- High data throughput with HT40 2x2 MIMO
- High transmission power (27 dBm Max.)
- Support **X-Roaming** < 100 ms
- Support AP/Client/Repeater Mode
- Support MAC Filtering
- Wireless connecting status monitoring
- HTTPs protocol supported for secured management
- Event Warning by Syslog, Email, SNMP Trap
- Rigid **IP-67** housing design
- Pole-mount enabled



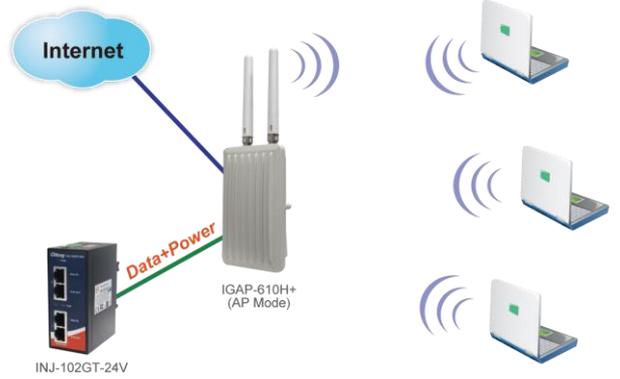
## Introduction

IGAP-W612H+ is a reliable IP-67 outdoor IEEE 802.11 a/b/g/n WLAN Access Point with 1 PoE P.D. Ethernet port. It can be configured to operate in AP/Client/Repeater mode. It is specifically designed for the toughest industrial environments. In combination with its IP-67 design and the superb management functionality, IGAP-W612H+ provides a waterproof, dust-tight connection. In addition, IGAP-W612H+ provides a high power output of 27 dBm and high throughput up to 180Mbps to satisfy far distance connection. IGAP-W612H+ provides two N-type connectors, which can install any N-type antennas to extend communication distance. You are able to configure IGAP-W612H+ by WEB interface via LAN port or WLAN interface. In addition, IGAP-W612H+ also provides P.D. feature which is fully compliant with the IEEE802.3at PoE P.D. specification to save the layout cost of the power line. IGAP-W612H+ can be easily adopted in almost all kinds of applications and provides the most rugged solutions for managing your network in outdoor. Therefore, IGAP-W612H+ is one of the best outdoor communication solutions for wireless applications

# Application



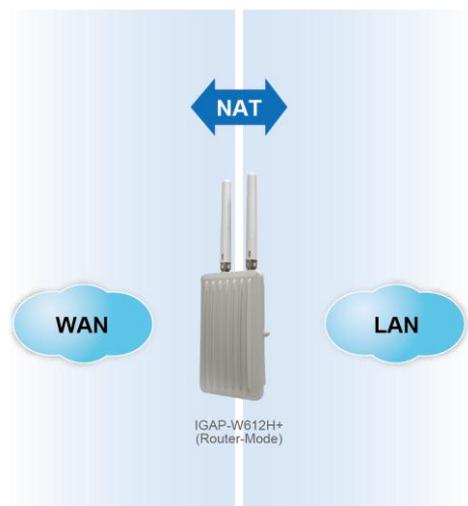
Client-Mode



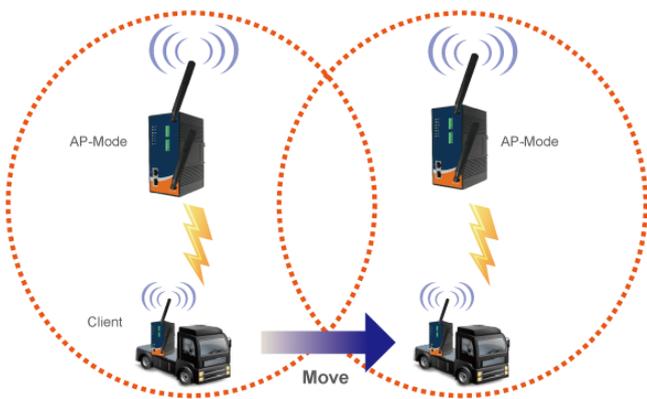
AP Mode



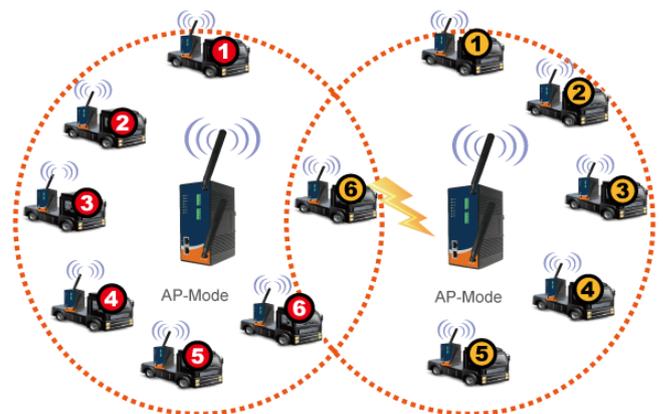
Repeater Mode



Router-Mode



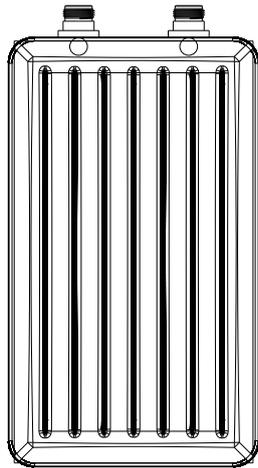
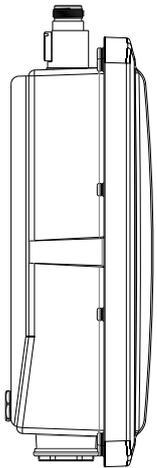
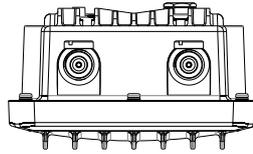
X-Roaming



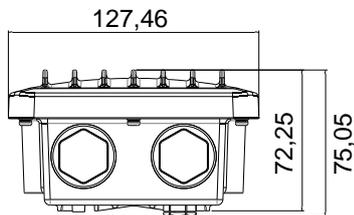
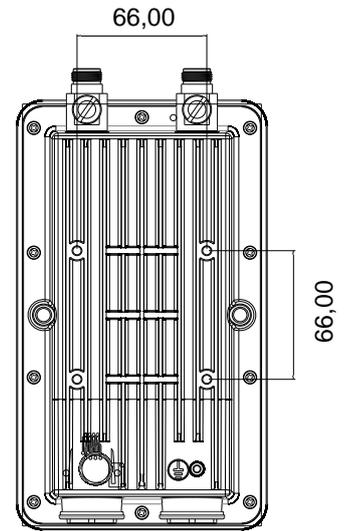
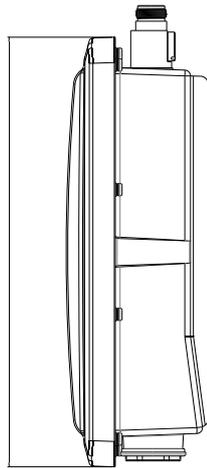
Wireless Load Balance

**Dimension**

**IGAP-W612H+**



220,46



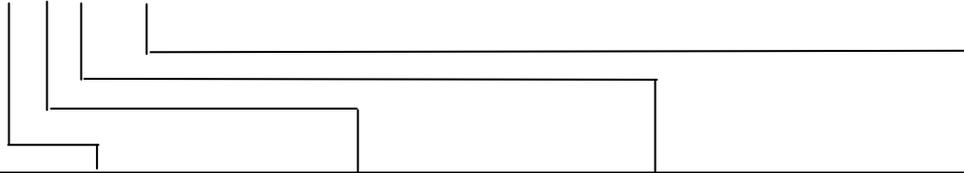
**Specifications**

ORing WLAN Access Point Model	IGAP-W612H+
<b>Physical Ports</b>	
10/100/1000 Base-T(X) Ports in RJ45 Auto MDI/MDIX	1 (with PoE)
<b>WLAN interface</b>	
Operating Mode	AP/Client/Repeater
Antenna Connector	2 x External N-type antenna connector
Radio Frequency Type	OFDM
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 )
Transmission Rate	802.11b: 11, 5.5, 2, 1 Mbps; 802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 300Mbps
Transmit Power	802.11a: 23dBm ± 1.5dBm@6Mbps, 21dBm ± 1.5dBm@54Mbps 802.11b: 23dBm ± 1.5dBm@1Mbps, 23dBm ± 1.5dBm@11Mbps 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
Receiver Sensitivity	802.11a : -93dBm ± 2dBm@6Mbps, -74dBm ± 2dBm@54Mbps 802.11b : -98dBm ± 2dBm@1Mbps, -90dBm ± 2dBm@11Mbps 802.11g : -90dBm ± 2dBm@6Mbps, -77dBm ± 2dBm@54Mbps 802.11gn HT20:-74dBm ± 2dBm@MCS7, 802.11gn HT40:-71dBm ± 2dBm@MCS7 802.11an HT20:-71dBm ± 2dBm@MCS7, 802.11an HT40:-68dBm ± 2dBm@MCS7
Encryption Security	WEP: (64-bit,128-bit key supported) WPA/WPA2 :802.11i(WEP and AES encryption) WPA2PSK (256-bit key pre-shared key supported) 802.1X Authentication supported TKIP encryption
Wireless Security	SSID broadcast disable
<b>Protocol Support</b>	
Protocol	ARP, BOOTP, DHCP, DNS, HTTPS, IP, ICMP, SNMP, TCP, UDP, RADIUS, SNMP, STP (IEEE 802.1D)
<b>LED indicators</b>	
Power indicator	1 x LED, Green On: Power(PoE) is on and functioning Normally.
10/100/1000 Base-T(X) RJ45 port indicator	1 x LED, Green On: Port Link / Act, Blinking: data transmission
WLAN LED	3 x LED, Green for 1 x 2.4G, 1 x 5G 1x WLAN Strength: Solid > 75% Blink 2 sec/time => 74%~50% Blink 1 sec/time => 49%~25% Blink 500 msec/time => <25%
System Status LED	Green On: System ready, Blinking: System booting
<b>Power</b>	
Input power	48VDC from P.o.E
Power consumption (Typ.)	7 W
<b>Physical Characteristic</b>	
Enclosure	IP-67
Dimension (W x D x H)	220.42(W)x 127.42(D)x 75(H) mm
Weight (g)	1148g
<b>Environmental</b>	
Storage Temperature	-30 to 85°C (-22 to 185°F)
Operating Temperature	-10 to 70°C (14 to 158°F)
Operating Humidity	100% Non-condensing
<b>Regulatory approvals</b>	
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	250109 hours
<b>Warranty</b>	5 years

## Ordering Information

**IGAP-W A B C H+**



Code Definition	Wireless Mode	10/100/1000Base-T(X) Port Number	Antenna Connector Number	PoE Identification
<b>Option</b>	- 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	- "1": 1 port - 2: 2 port	- 0: 0 connectors - "2": 2 connectors	- "+": PoE P.D. present at ETH1

	Model Name	Description
<b>Available Model</b>	IGAP-W612H+_US	Industrial outdoor IEEE 802.11 a/b/g/n wireless access point with 10/100/1000Base-T(X) PoE P.D., IP-67 grade, US band
	IGAP-W612H+_EU	Industrial outdoor IEEE 802.11 a/b/g/n wireless access point with 10/100/1000Base-T(X) PoE P.D., IP-67 grade, EU band

## Packing List

- IGAP- W612H+ x 1
- RJ-45 Rubber Seal x 2
- N-type ANT. Rubber Seal x 2
- Pole Mount Kit x 1
- Quick Installation Guide x 1