



# 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

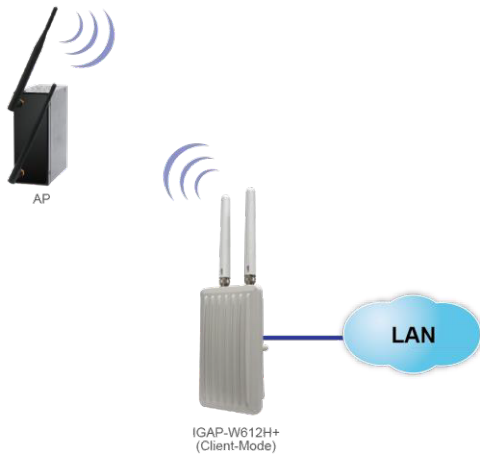
- High-Speed Air Connectivity: Dual Band in IEEE 802.11 a/b/g/n and b/g/n WLAN interface selectable and support up to 300Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- High data throughput with HT40 2x2 MIMO
- High transmission 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



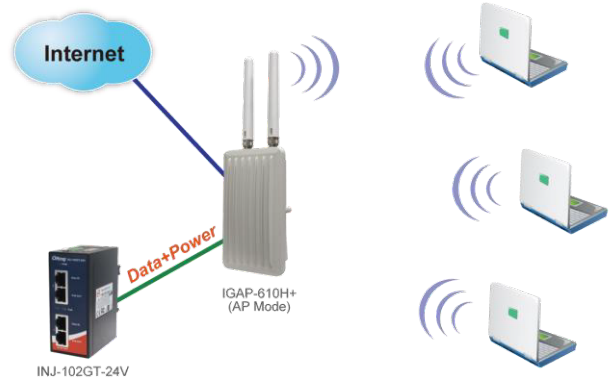
## Introduction

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



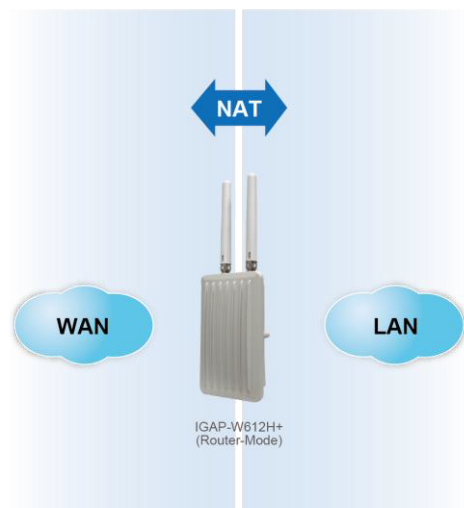
Client-Mode



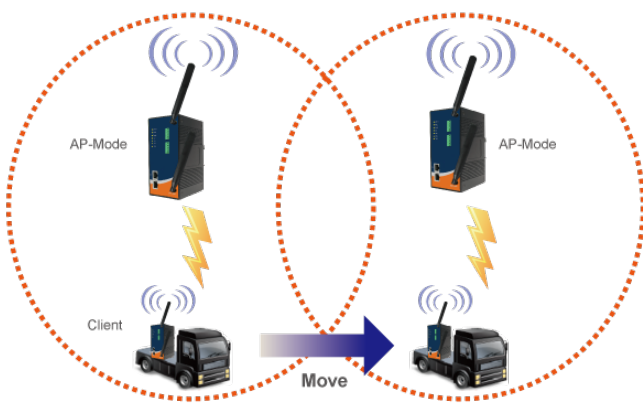
AP Mode



Repeater Mode



Router-Mode



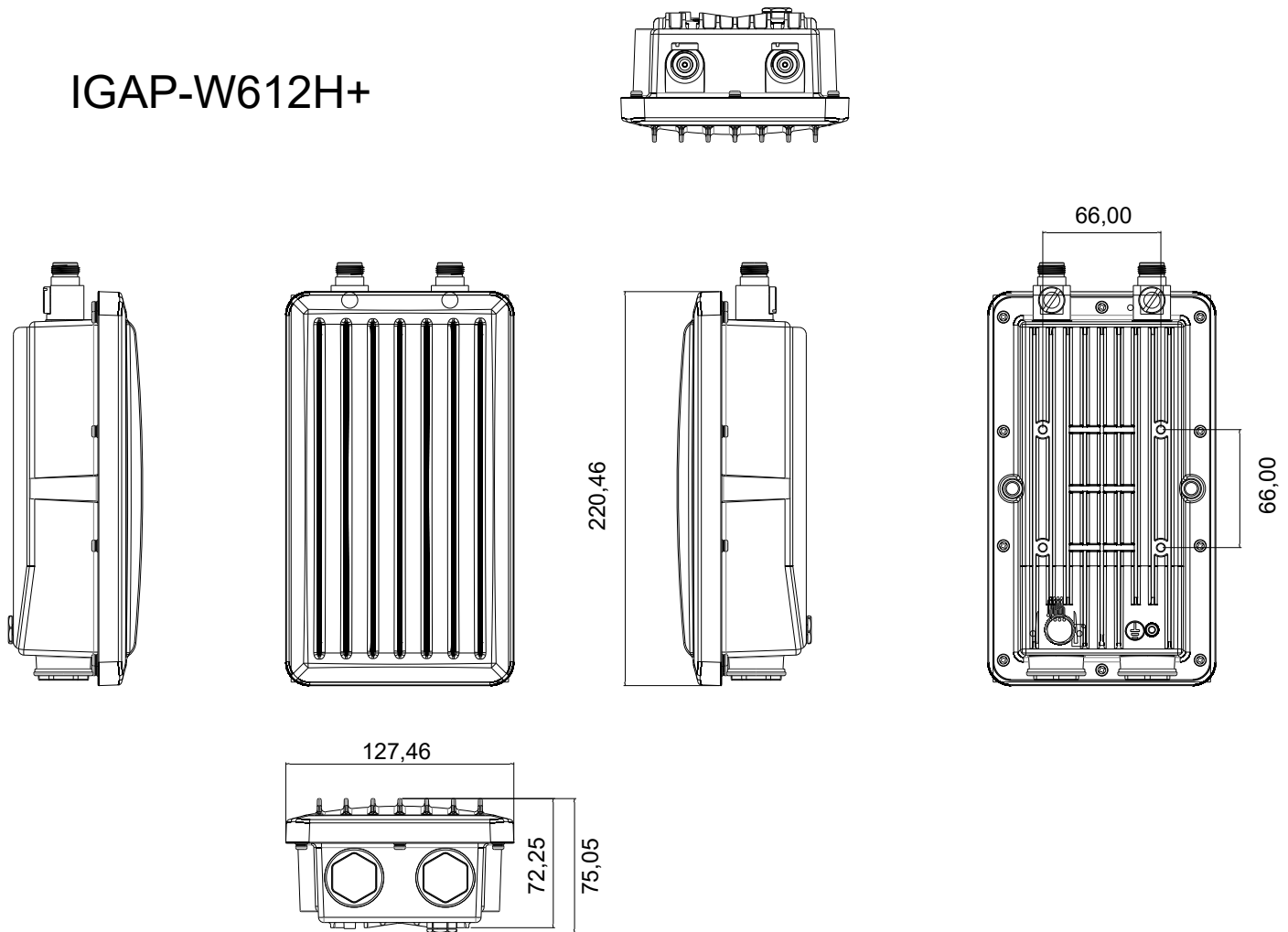
X-Roaming



Wireless Load Balance

## Dimension

### IGAP-W612H+



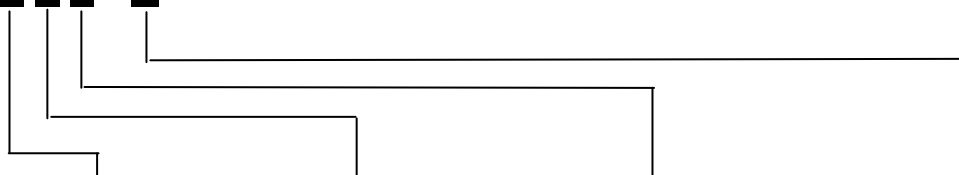
## Specifications

| 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<br>IEEE802.11b: CCK/DQPSK/DBPSK<br>IEEE802.11g: OFDM<br>IEEE802.11n: BPSK, QPSK, 16-QAM, 64-QAM                               |
| Frequency Band                                    | America/FCC: 2.412~2.462 GHz (11 channels)<br>5.180~5.240 GHz & 5.745~5.825 GHz ( 9 channels )<br>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;<br>802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps<br>802.11n: up to 300Mbps   |
| Transmit Power                            | 802.11a: 23dBm $\pm$ 1.5dBm@6Mbps, 21dBm $\pm$ 1.5dBm@54Mbps<br>802.11b: 23dBm $\pm$ 1.5dBm@1Mbps, 23dBm $\pm$ 1.5dBm@11Mbps<br>802.11g: 23dBm $\pm$ 1.5dBm@6Mbps, 21dBm $\pm$ 1.5dBm@54Mbps<br>802.11gn HT20: 20dBm $\pm$ 1.5dBm@MCS7, 802.11gn HT40: 20dBm $\pm$ 1.5dBm @MCS7<br>802.11an HT20: 20dBm $\pm$ 1.5dBm@MCS7, 802.11an HT40: 20dBm $\pm$ 1.5dBm @MCS7 |
| Receiver Sensitivity                      | 802.11a : -93dBm $\pm$ 2dBm@6Mbps, -74dBm $\pm$ 2dBm@54Mbps<br>802.11b : -98dBm $\pm$ 2dBm@1Mbps, -90dBm $\pm$ 2dBm@11Mbps<br>802.11g : -90dBm $\pm$ 2dBm@6Mbps, -77dBm $\pm$ 2dBm@54Mbps<br>802.11gn HT20:-74dBm $\pm$ 2dBm@MCS7, 802.11gn HT40:-71dBm $\pm$ 2dBm@MCS7<br>802.11an HT20:-71dBm $\pm$ 2dBm@MCS7, 802.11an HT40:-68dBm $\pm$ 2dBm@MCS7              |
| Encryption Security                       | WEP: (64-bit,128-bit key supported)<br>WPA/WPA2 :802.11i(WEP and AES encryption)<br>WPAPSK (256-bit key pre-shared key supported)<br>802.1X Authentication supported<br>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,<br>Green On: Power(PoE) is on and functioning Normally.   |
| 10/100/1000 Base-T(X) RJ45 port indicator | 1 x LED,<br>Green On: Port Link / Act, Blinking: data transmission   |
| WLAN LED                                  | 3 x LED,<br>Green for 1 x 2.4G, 1 x 5G<br>1x WLAN Strength:<br>Solid > 75%<br>Blink 2 sec/time => 74%~50%<br>Blink 1 sec/time => 49%~25%<br>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   |
| Warranty                                  | 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              |
|-----------------|--|----------------------------------|--|---------------------------------|
| Option          | - 1: 802.11 b/g<br>- 2: 802.11 a<br>- 3: 802.11 a/b/g<br>- 4: 802.11 b/g/n<br>- 5: 802.11 a/n<br>- 6: 802.11 a/b/g/n | - "1": 1 port<br>- 2: 2 port     | - 0: 0 connectors<br>- "2": 2 connectors | - "+": PoE P.D. present at ETH1 |

|                 | Model Name     | Description   |
|-----------------|----------------|---|
| Available Model | 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
- Pole Mount Kit x 1
- RJ-45 Rubber Seal x 2
- Quick Installation Guide x 1
- N-type ANT. Rubber Seal x 2

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