

Quick Installation Guide

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

→ Package Contents

The device is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

Contents	Pictures	Number
IGAP-W612+		1
CD		1
2.4GHz/5GHz Antenna	A	2
RJ-45 Cable Gland		1
QIG		1
Mounting Installation Package	Wall mount x1 Wood Screw x4 Washer x4 Spring Washer x4	1

Preparation

Before you begin installing the device, make sure you have all of the package contents available and a PC with Microsoft Internet Explorer 6.0 or later, for using web-based system management tools.

IGAP-W612H+

Safety & Warnings



When installed outdoors, make sure the connectors on the panel are facing down to prevent water intrusion.



Do not remove the water-proof casing, and do not touch or move the device when the antennas are transmitting or receiving signals.



When installing the device, make sure to keep the radiating at a minimum distance of 20 cm (7.9 inches) from all persons to minimize the potential for human contact during normal operation

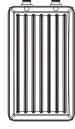


Do not operate the device near unshielded blasting caps or in an otherwise explosive environment unless the device has been modified for such use by qualified

Dimension





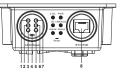






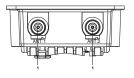
Panel Layouts

Bottom Pane



- 1. LED for 2.4G WLAN 2. LED for 5G WLAN 3. LED for WLAN signal
- strenath 4. Reset buttor
- 5. LED for system status 6. LNK/ACT LED for Giga PoE LAN port 7. Power indicator 8. Giga PoE LAN port

Top Panel



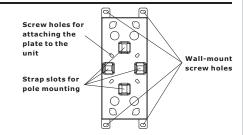
1. WLAN Antenna

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Industrial IP-67 PoE Outdoor Access Point

Installation

The device can be fixed to a pole or the wall using the supplied mounting plate. Make sure the connectors on the bottom panel are facing down when installing to prevent water intrusion.



Wall-mount

Follow the steps below to install the device to the wall.

Step 1: Attach the mounting plate to the back of the device using four screws. The plate can be attached vertically or horizontally to the device depending on the space available









Step 2: Hold the device upright against the wall

Step 3: Insert four screws through the holes at the top and bottom of the plate and fasten the screws to the wall





Pole-mount

You can mount the device to a pole using the adjustable steel band straps included in the kit. Follow

Step 1: Attach the mounting plate to the back of the device using four screws. The plate can be attached vertically or horizontally to the device based on the space available.









Step 2: Thread the two supplied metal mounting straps through the large slots on the mounting plate and then put the straps around the pole





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Network Connection

The device has three standard Ethernet ports. According to the link type, the device uses CAT 3,4,5,5e UTP cables to connect to any other network devices (PCs, servers, switches, routers, or hubs). Please refer to the following table for cable specifications.

Cable Types and Specifications:

	Cable	Туре	Max. Length	Connector
ĺ	10BASE-T	Cat. 3, 4, 5 100-ohm	UTP 100 m (328 ft)	RJ-45
	100BASE-TX	Cat. 5 100-ohm UTP	UTP 100 m (328 ft)	RJ-45
ĺ	1000BASE-T	Cat. 5/Cat. 5e 100-ohm UTP	UTP 100 m (328ft)	RJ-45

RJ-45 Pin Assignment

Pin Number	Assignment
1	TD+
2	TD-
3	RD+
4	Not used
5	Not used
6	RD-
7	Not used
8	Not used

1000Base-T RJ-45 port		
Pin Number	Assignment	
1	BI_DA+	
2	BI_DA-	
3	BI_DB+	
4	BI_DC+	
5	BI_DC-	
6	BI_DB-	
7	BI_DD+	
8	BI_DD-	

Note: "+" and "-" signs represent the polarity of the wires that make up each wire pair.

Configurations

After installing the device and connecting cables, the green power LED should turn on. Please refer to the following tablet for LED indication.

Color	Status	Description		
Green	On	PoE power is supplied over Ethernet cable		
Green	On	System is ready		
	Blinking	System is booting up		
WLAN				
Green	On	2.4G WLAN activated		
Green	On	5G WLAN activated		
Green	On	WLAN signal strength.> 75%		
	Blink 2 sec/time	WLAN signal strength.=> 74% ~ 50%		
	Blink 1 sec/time	WLAN signal strength.=> 49% ~ 25%		
	Blink 500 msec/time	WLAN signal strength.=< 25%		
10/100/1000Base-T(X) Fast Ethernet ports				
Green	On	Port is linked		
	Blinking	Transmitting Data		
	Green Green Green Green Green	On On On Blinking		

Follow the steps to set up the card:

1. Launch the Internet Explorer and type in IP address of the switch. The default static IP address is 192.168.10.2



2. Log in with default user name and password (both are admin).



3. After logging in, you should see the following screen. For more information on configurations, please refer to the user manual.

Resetting

To restore the device configurations back to the factory defaults, press the Reset button for a few seconds. Once the power indicator starts to flash, release the button. The device will then reboot and return to factory defaults.

Specifications

IGAP-W612H+	
1 (with PoE)	
2 x External N-type antenna connector	
AP/Client/Repeater	
IEEE802.11a: OFDM IEEE802.11b: CCK/DQPSK/DBPSK IEEE802.11g: OFDM IEEE802.11i: DFSK, 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) 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 802.11g: 54,48,36,24,18,12,9,6Mbps 802.11c: upt 0300Mbps	
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@4Mbps 802.11gn HT20: 20dBm ± 1.5dBm@MCS7, 802.11gn HT40: 20dBm ± 1.5dBm @MCS7 802.11gn HT20: 20dBm ± 1.5dBm@MCS7, 802.11gn HT40: 20dBm ± 1.5dBm @MCS7	
802.11a:-93dBm ± 2dBm@6Mbps,-74dBm ± 2dBm@54Mbps 802.11b:-98dBm ± 2dBm@1Mbps,-99dBm ± 2dBm@1Mbps,-72dBm ± 2dBm@1Mbps,-72dBm ± 2dBm@1Mbps,-77dBm ± 2dBm@54Mbps 802.11g:-90dBm ± 2dBm@Mbps,-77dBm ± 2dBm@54Mbps 802.11gh HT20:-74dBm ± 2dBm@MCS7, 802.11gh HT40:-71dBm ± 2dBm@MCS7 802.11ah HT20:-71dBm ± 2dBm@MCS7, 802.11ah HT40:-86dBm ± 2dBm@MCS7	
WEP: (64-bit,128-bit key supported) WPA/WA2:802.11(WEP and AES encryption) WPA/WAPS: (265-bit key pre-shared key supported) 802.1X Authentication supported TXIP encryption	
SSID broadcast disable	
ARP, BOOTP, DHCP, DNS, HTTPs, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, STP (IEEE 802.1D)	
48VDC from P.o.E	
7 Watts	
IP-67	
220.42(W)x 127.42(D)x 75(H) mm (8.68x5.02x2.95 inch.)	
1148g	
-30 to 85°C (-22 to 185°F)	
-10 to 70°C (14 to 158°F)	
5% to 95% Non-condensing	



