



Quick Installation Guide

IGAP-6620+ Series

Industrial Wireless LAN Access Point

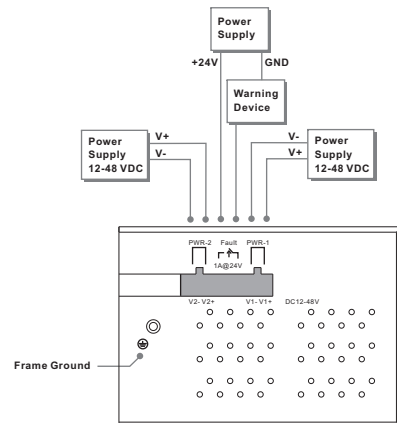
Introduction

IGAP-6620+ is a reliable wireless Access Point with dual IEEE 802.11 a/b/g/n wireless modules and 2 Ethernet Gigabit ports with one PoE P.D. port. It can be configured to operate in Dual AP/Dual Client /Bridge /AP-Client Mode and supports MAC filters for security control. **IGAP-6620+** provides four reverse SMA connectors that can install any Wifi antennas to extend communication distance. It is specifically designed for the toughest industrial environments. You are able to configure **IGAP-6620+** by WEB interface via LAN port or WLAN interface. In addition, **IGAP-6620+** also provides P.D. feature at ETH2 port which is fully compliant with IEEE802.3af PoE P.D. specification to save the layout cost of power line. **IGAP-6620+** can be easily adopted in almost all kinds of applications and provides the most rugged solutions to manage your network. Therefore, **IGAP-6620+** is one of the best communication solutions for wireless applications.

Features

- **High Speed Air Connectivity: WLAN interface support up to 300Mbps link speed**
- **Dual RF for redundant wireless communication**
- **Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported**
- **Support Long Distance Air Connectivity with external antenna**
- **Support X-Roaming < 60 ms**
- **Support wireless load balance**
- **Support external SMA antenna installation**
- **Support Dual AP /Dual Client /Bridge /AP-Client Mode**
- **Support MAC /IP /Port Filter**
- **Provide Digital Inputs and Digital Outputs**
- **Wireless connecting status monitoring**
- **Secured Management by HTTPS**
- **1KV isolation for PoE P.D. port**
- **Event Warning by Syslog, Email, SNMP Trap, Relay output and Beeper**
- **Rigid IP-30 housing design**

Power Connection Guide



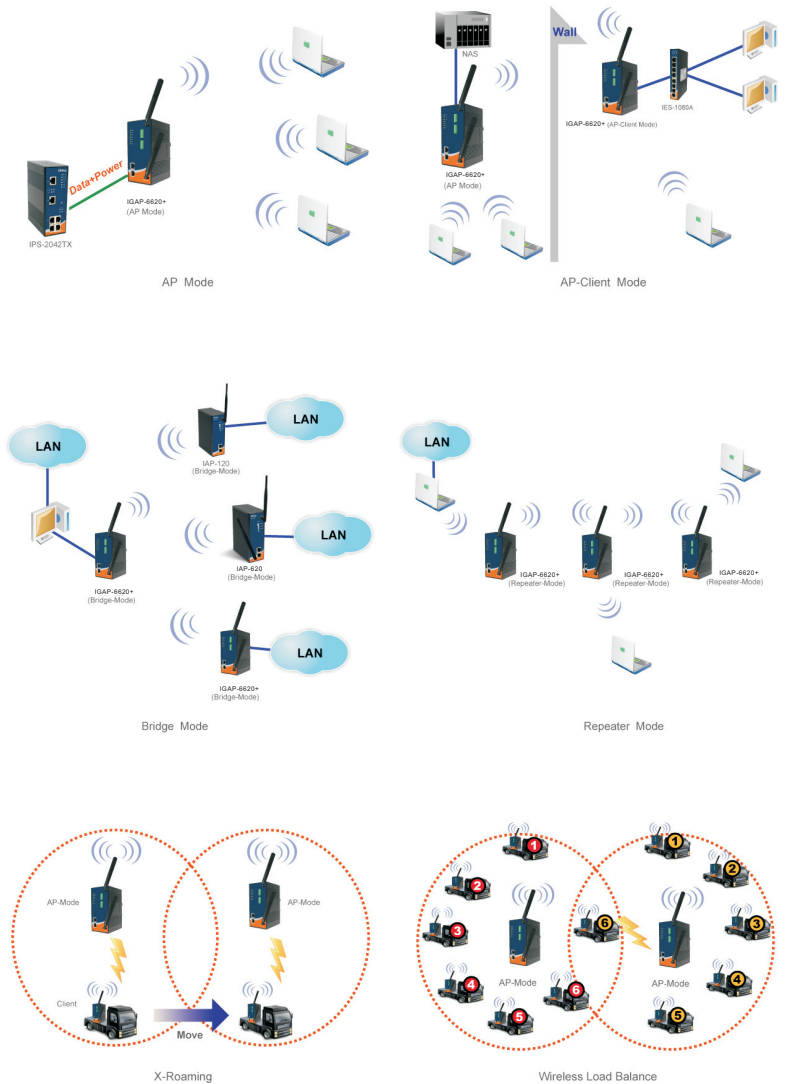
Specifications

ORing WLAN Access Point Model	IGAP-6620+
Physical Ports	
10/100/1000Base-T(X) Ports in RJ45 Auto MDI/MDIX	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: 10 ⁷ ohms min
WLAN Interface	
Operating Mode	AP/Client/Bridge/Repeater/AP-Client
Antenna Connector	4 x External reverse SMA antenna connector
Radio Frequency Type	DSSS, OFDM
Modulation	IEEE802.11a: OFDM with BPSK, QPSK, QAM, 64QAM IEEE802.11b: CCK/DQPSK/DBPSK IEEE802.11g: OFDM with BPSK, QPSK, 16-QAM, 64-QAM 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	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps IEEE802.11n: up to 300Mbps
Transmit Power	802.11a: 12dBm ± 1.5dBm 802.11b: 17dBm ± 1.5dBm 802.11g: 16dBm ± 1.5dBm 802.11gn HT20: 15dBm ± 1.5dBm@ 150Mbps 802.11gn HT40: 14dBm ± 1.5dBm@ 300Mbps 802.11an HT20: 12dBm ± 1.5dBm@ 150Mbps 802.11an HT40: 11dBm ± 1.5dBm@ 300Mbps
Receiver Sensitivity	802.11a: -76dBm ± 2dBm@54Mbps 802.11b: -85dBm ± 2dBm@11Mbps 802.11g: -76dBm ± 2dBm@54Mbps 802.11gn HT20: -75dBm ± 2dBm@ 150Mbps 802.11gn HT40: -72dBm ± 2dBm@ 300Mbps 802.11an HT20: -74dBm ± 2dBm@ 150Mbps 802.11an HT40: -71dBm ± 2dBm@ 300Mbps
Encryption Security	WEP: (64-bit, 128-bit key supported) WPA/WPA2: 802.11i(WEP and AES encryption) WPAPSK (256-bit key pre-shared key supported) 802.1X Authentication supported TKIP encryption
Wireless Security	SSID broadcast disable
Protocol Support	
Protocol	ARP, BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNMP, TCP, UDP, RADIUS, SNMP, STP, RSTP,
LED Indicators	
Power Indicator	3 x LEDs, PWR1(2)(PoE) / Ready: Red On : Power is on and booting up Green On : Power is on and functioning Normal
10/100/1000Base-T(X) RJ45 Port Indicator	2 x LEDs LINK/ACT: Green for port Act. Speed: Green for port Link at 1000Mbps Amber for port Link at 100Mbps. Off for port Link at 10Mbps
WLAN LED	2 x Green Solid On: RF on, Blink: data transmitting 2 x Green for WLAN work on 2.4GHz 2 x Green for WLAN work on 5GHz
Power	
Redundant Input power	Dual DC inputs. 12-48VDC on 6-pin terminal block
Power consumption(Typ.)	11 Watts
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	74.3(W) x 109.2(D) x 153.6(H) mm (2.93 x 4.3 x 6.05 inch.)
Weight (g)	1250 g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-10 to 60°C (14 to 140°F)
Operating Humidity	5% to 95% Non-condensing
Regulatory Approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN1000-4-6(CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950-1
Warranty	5 years

Applications

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/Client/Bridge/AP-Client mode. You can build up the wireless network easily.





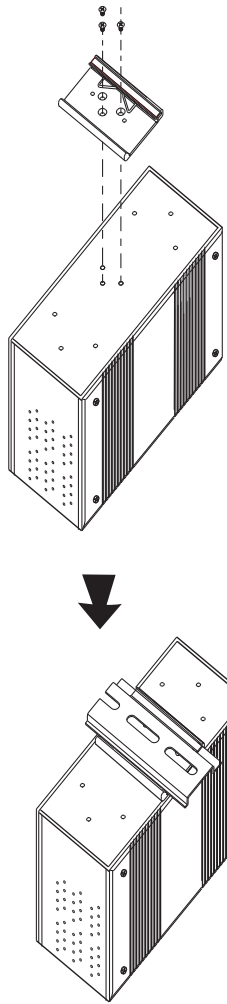
Quick Installation Guide

IGAP-6620+ Series

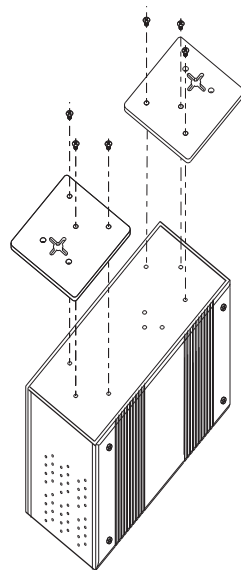
Industrial Wireless LAN Access Point

Installation

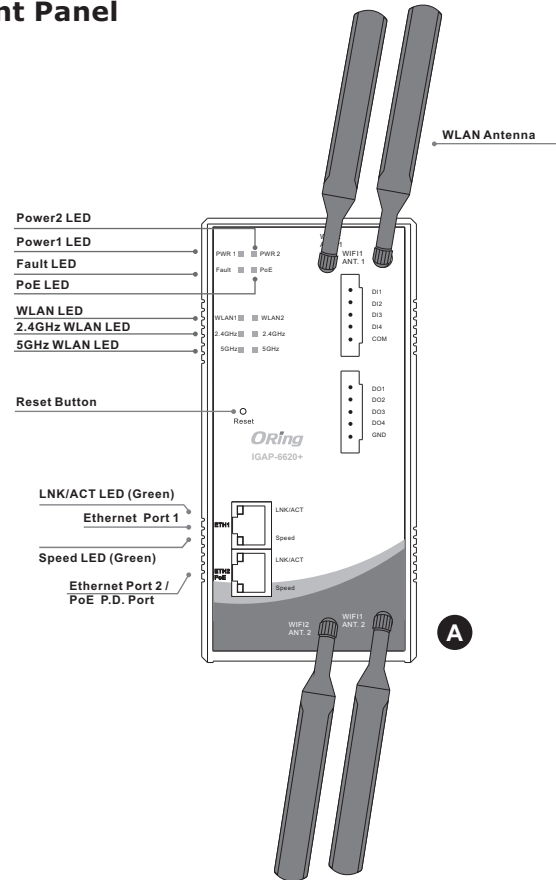
Din-Rail Install Step



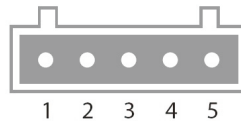
Wall-mounted Install Step



Front Panel



DI/DO Definition

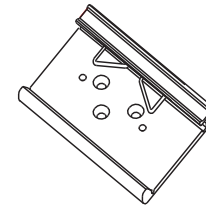


PIN	1	2	3	4	5
Function	DI1	DI2	DI3	DI4	COM

PIN	1	2	3	4	5
Function	DO1	DO2	DO3	DO4	GND

Accessory

- ① Dust Cover (RJ-45)
- ② 66mm DIN-Rail kit
- ③ Flat Screw (M3 X5)



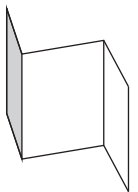
- ④ 5-Pin Terminal block



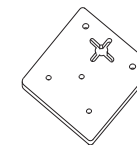
- ⑤ CD



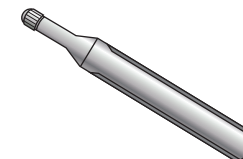
- ⑥ QIG



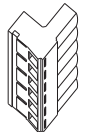
- ⑦ Wall-mounted kit



- ⑧ WLAN Antenna



- ⑨ 6-Pin Terminal block



Packing list

Model name	Front Panel	Model Description	Accessory
IGAP-6620+_US	A	Industrial Outdoor Dual RF in IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000Base-T(X) PoE P.D., US band	① X 2, ② X 1, ③ X 6, ④ X 2, ⑤ X 1, ⑥ X 1, ⑦ X 2, ⑧ X 4, ⑨ X 1
IGAP-6620+_EU	A	Industrial Outdoor Dual RF in IEEE 802.11 a/b/g/n wireless access point with 2x10/100/1000Base-T(X) PoE P.D., EU band	① X 2, ② X 1, ③ X 6, ④ X 2, ⑤ X 1, ⑥ X 1, ⑦ X 2, ⑧ X 4, ⑨ X 1

ORing Industrial Networking Corp.

Copyright© 2013 ORing
All rights reserved.

ROHS

TEL: +886-2-2218-1066 Website: www.oring-networking.com
FAX: +886-2-2218-1014 E-mail: support@oring-networking.com