



IAP-620 / IAP-620+

Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X)

Features

- High Speed Air Connectivity: WLAN interface support up to 300 Mbps link speed
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- Support X-Roaming < 100 ms
- Support wireless load balance
- Support AP/Client/Bridge/AP-Client Mode
- Switch Mode Supported: Daisy Chain support to reduce usage of switch ports
- Dual redundant Ethernet port support redundant mode (Recovery time < 10ms)
- Secured Management by HTTPs
- Wireless connecting status monitoring
- Event Warning by Syslog, Email, SNMP Trap, Relay and Beeper
- 1KV isolation for PoE P.D. port of IAP-620+
- Rigid IP-30 housing design
- DIN-Rail and Wall-mount enabled

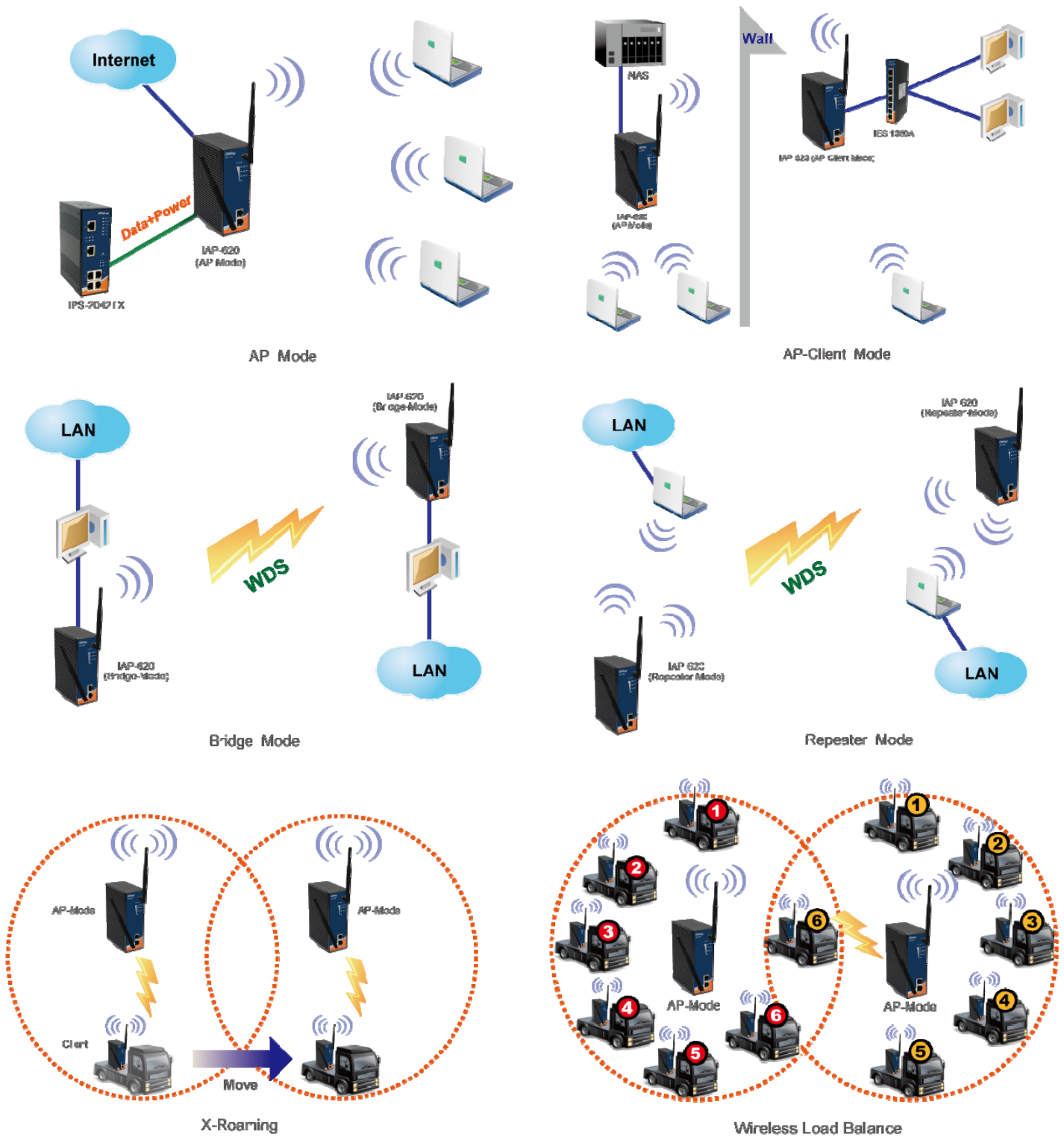


Introduction

IAP-620 / IAP-620+ series are reliable 802.11 a/b/g/n WLAN Access Point with 2 ports LAN. It supports 802.1X and MAC filters for security control. It can be configured to operate in AP/Bridge/Repeater/AP-Client mode. You are able to configure IAP-620 / IAP-620+ series by WEB interface via LAN port or WLAN interface. IAP-620 / IAP-620+ series provide dual Ethernet ports in switch mode, so that you can use Daisy Chain to reduce the usage of Ethernet switch ports. In addition, IAP-620+ also provides P.D. feature on ETH2 which is fully compliant with IEEE802.3af PoE P.D. specification. Therefore, IAP-620 / IAP-620+ series are one of the best communication solutions for wireless applications on the industrial network.

Application

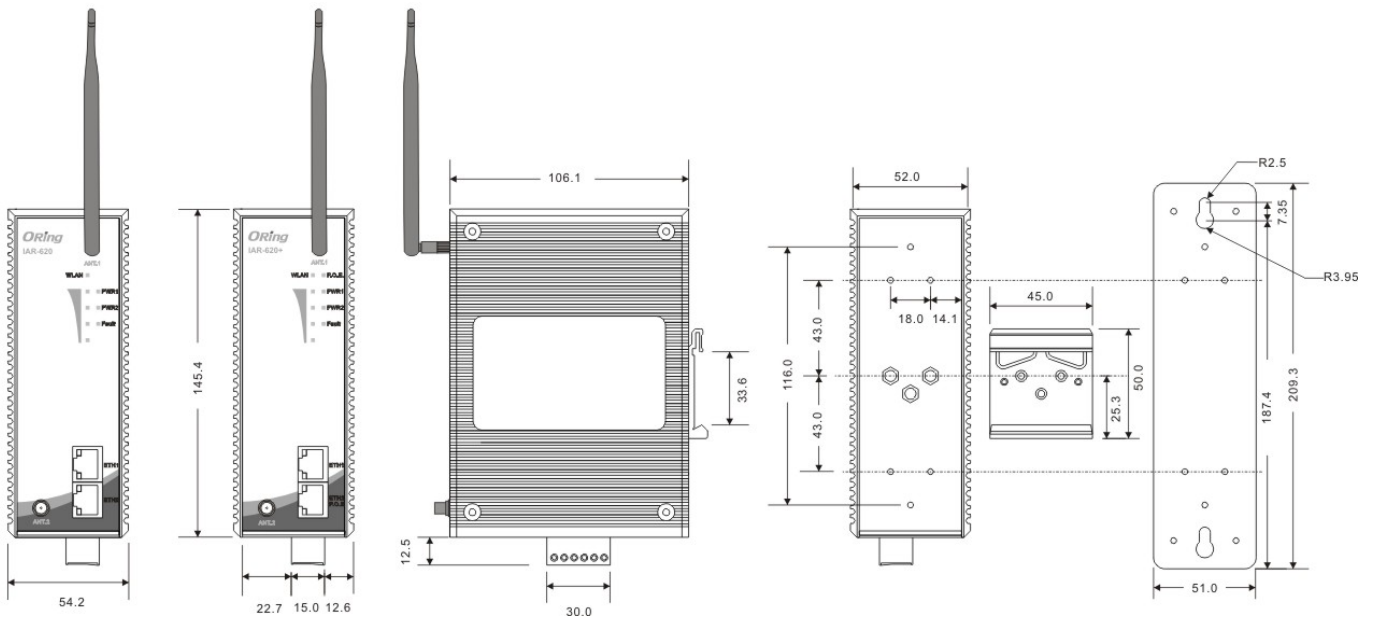
In practical operation of wireless access point, Windows utility (Open-Vision) is supported. This utility is very helpful for you to search and configure IP of access point on the industrial network. In addition, the wireless access point support various kinds of operation modes include AP/ Bridge/Repeater/AP-Client mode. IAP-620 / IAP-620+ series also support PoE P.D. feature to extend the layout up to 100 meters. You can build up the wireless network easily.



Various kinds of operation modes

Dimension

Dimension (Unit =mm)



Specifications

ORing WLAN Access Point Model	IAP-620	IAP-620+
Physical Ports		
10/100 Base-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 ⁸ ohms min
WLAN interface		
Operating Mode	AP/Bridge/Client/AP-Client	
Antenna Connector	2 x External reverse SMA-type antenna connector	
Radio Frequency Type	OFDM, DSSS	
Modulation	IEEE802.11a/n: OFDM with BPSK, QPSK, 16QAM, 64QAM IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g/n: OFDM with BPSK, QPSK, 16QAM, 64QAM	
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) Japan(JP): 2.412~2.484 GHz (13 channels) 5.180~5.240 GHz (4 channels) Canada(CA): 2.412~2.462 GHz (11 channels) 5.180~5.825 GHz (21 channels)
Transmission Rate	802.11b: 1/2/5.5/11 Mbps 802.11a/g: 6/9/12/18/24/36/48/54 Mbps 802.11n(40MHz): UP to 300 Mbps
Transmit Power	802.11a: 13dBm $\pm$ 1.5dBm 802.11b: 16dBm $\pm$ 1.5dBm 802.11g: 14dBm $\pm$ 1.5dBm 802.11n(2.4G@20MHz): 13dBm $\pm$ 1.5dBm 802.11n(2.4G@40MHz): 12dBm $\pm$ 1.5dBm 802.11n(5G@20MHz): 12dBm $\pm$ 1.5dBm 802.11n(5G@40MHz): 12dBm $\pm$ 1.5dBm
Receiver Sensitivity	802.11a: -68dBm $\pm$ 2dBm@54Mbps 802.11b: -82dBm $\pm$ 2dBm@11Mbps 802.11g: -68dBm $\pm$ 2dBm@54Mbps 802.11n(2.4G@20MHz,MCS15): -64dBm $\pm$ 2dBm 802.11n(2.4G@40MHz,MCS15): -60dBm $\pm$ 2dBm 802.11n(5G@20MHz,MCS15): -64dBm $\pm$ 2dBm 802.11n(5G@40MHz,MCS15): -60dBm $\pm$ 2dBm
Encryption Security	WEP: (64-bit, 128-bit key supported) WPA/WPA2:802.11i (WEP and AES encryption) WPA-PSK (256-bit key pre-shared key supported) 802.1X Authentication supported TKIP encryption
Wireless Security	SSID broadcast disable and enable
Protocol Support	
Protocol	ARP,BOOTP, DHCP, DNS, HTTP, IP, ICMP, SNTP, TCP, UDP, 802.1X, SNMP, STP
LED indicators	
Power indicator	PWR 1(2)(PoE) / Ready: Red On: Power is on and booting up. Green On: Power is on and functioning Normally.
10/100Base-T(X) RJ45 port indicator	Green for port Link/Act at 100Mbps. Amber for port Link/Act at 10Mbps.
WLAN LEDs	WLAN Link /ACT: Green: Link, Orange: Poor signal Green for WLAN Strength: 1<25%, 2<50%, 3<75%, 4<100%
Fault	Red: Ethernet link down or power down
Fault contact	
Relay	Relay output to carry capacity of 1A at 24VDC
Power	
Redundant Input power	Dual DC inputs. 12~48VDC on 6-pin terminal block
Power consumption (Typ.)	6 Watts
Overload current protection	Present
Reverse polarity protection	Present
Physical Characteristic	
Enclosure	IP-30

Dimension (W x D x H)	54.1(W)x106.1(D)x145.4(H) mm (2.13x4.18x5.72 inch.)	
Weight (g)	800 g	804 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), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11	
Shock	IEC60068-2-27	
Free Fall	IEC60068-2-32	
Vibration	IEC60068-2-6	
Safety	EN60950-1	
MTBF (Hours) (MIL-HDBK-217F2, GB, GC, 25°C)	352,982	352,594
Warranty	3 years	

Ordering Information

IAP-AB0C

Code Definition	Wireless Mode	10/100 Base-T(X) Port Number
Option	- 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	- "2": 2 ports

	Model Name	Description
Available Model	IAP-620_US	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X), US band
	IAP-620_EU	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X), EU band
	IAP-620_JP	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X), JP band
	IAP-620_CA	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X), CA band
	IAP-620+_US	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X), 1-port PoE P.D., US band
	IAP-620+_EU	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X), 1-port PoE P.D., EU band
	IAP-620+_JP	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X), 1-port PoE P.D., JP band
	IAP-620+_CA	Industrial IEEE 802.11 a/b/g/n wireless access point with 2x10/100Base-T(X), 1-port PoE P.D., CA band

Packing List

- IAP-620 / 620+ x 1
- CD x 1
- Quick Installation Guide x 1
- Antenna x 2
- Din-Rail Kit x 1
- Wall-Mount Kit x 1

Optional Accessories

- DR-45 series : 45 Watts power supply
- DR-75 series : 75 Watts power supply
- DR-120 series : 120 Watts power supply
- WLAN RF Antenna (Omni-directional) series
- RF Antenna Base (Magnetic) series
- RF Cable series
- RF Surge Protector