



IAR-620 / IAR-620+

Industrial IEEE 802.11 a/b/g/n Cellular VPN Router

Features

- High Speed Air Connectivity: WLAN interface support up to 300Mbps link speed
- Provide HNAT enhance LAN to WAN routing performance
- Highly Security Capability: WEP/WPA/WPA-PSK(TKIP,AES)/WPA2/WPA2-PSK(TKIP,AES)/802.1X Authentication supported
- Secured Management by HTTPs
- Support STP(802.1D) for wireless redundancy
- Various kind of WAN Connection Type supported: Dynamic/Static IP, PPPoE, Modem/Dial Up
- Support client operating mode
- IP table to prevent access from unauthorized IP address
- Support VPN for secured network connection (Open VPN , PPTP VPN)
- Support NAT Setting (Virtual Server , Port Trigger , DMZ , UPnP)
- Support DHCP forwarder through PPTP function
- 3G Modem signal information display (un-connecting status)
- Wireless connecting status monitoring
- Versatile modes & event alarm by e-mail
- USB interface support 3.5G HSDPA USB Modem dial up
- 1KV isolation for PoE P.D. port of IAR-620+
- Event Warning by Syslog, Email, SNMP Trap, Relay and Beeper
- Rigid IP-30 housing design
- DIN-Rail and Wall-mount enabled



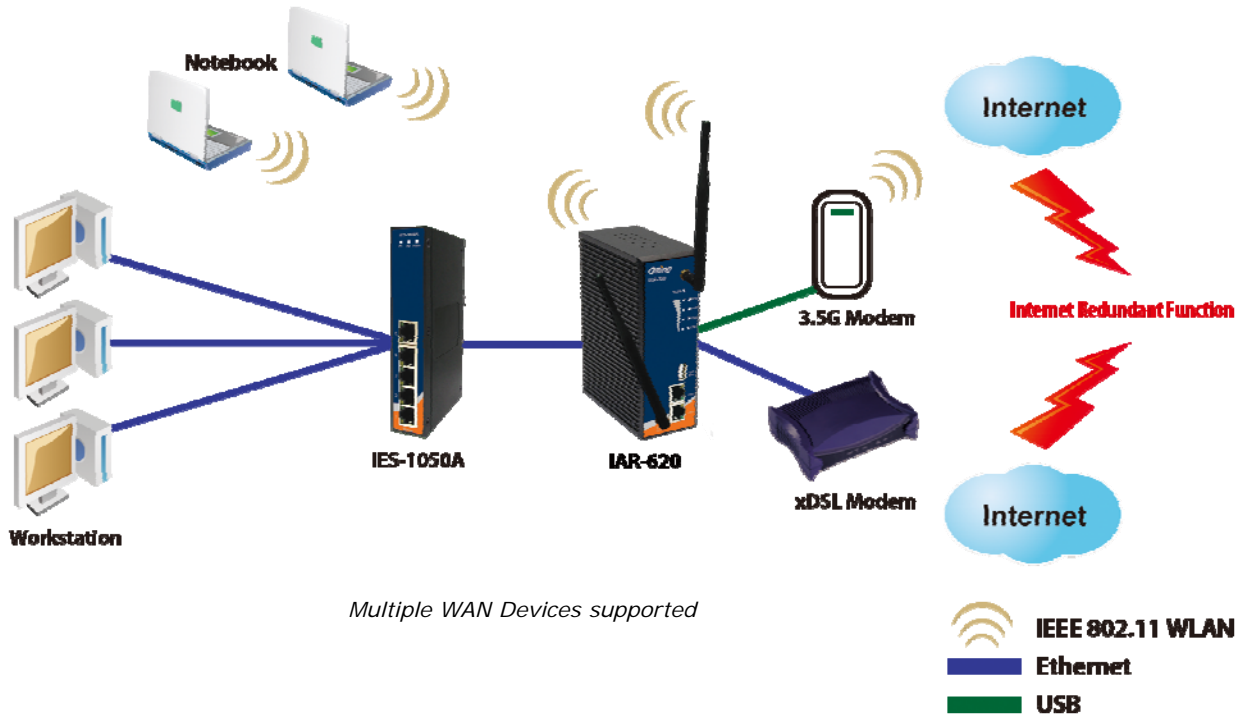
Introduction

IAR-620 / IAR-620+ is a reliable IEEE 802.11 a/b/g/n WLAN VPN router with 2 ports 10/100Base-T(X) router where ETH1 for LAN and ETH2 for WAN. It supports 802.1X and MAC filter for security control. It could be configured to operate in 3 modes of routing function: Dynamic/Static IP route, PPPoE authentication, and Modem (56K/GPRS/3G/3.5G Modem) dial up. In the mode of Modem dial up, it support both traditional 56K modem and GPRS/3G/3.5G Modem with USB interface. Users can set up WLAN environment to fulfill demands of various applications rapidly by dialing up cellular modems. In addition, IAR-620+ also provides P.D. feature on ETH2 which is fully compliant with IEEE802.3af

PoE P.D. specification. This feature extends the layout up to 100 meters. Therefore, IAR-620 / IAR-620+ is one of the best solution for applications of wireless communication.

Application

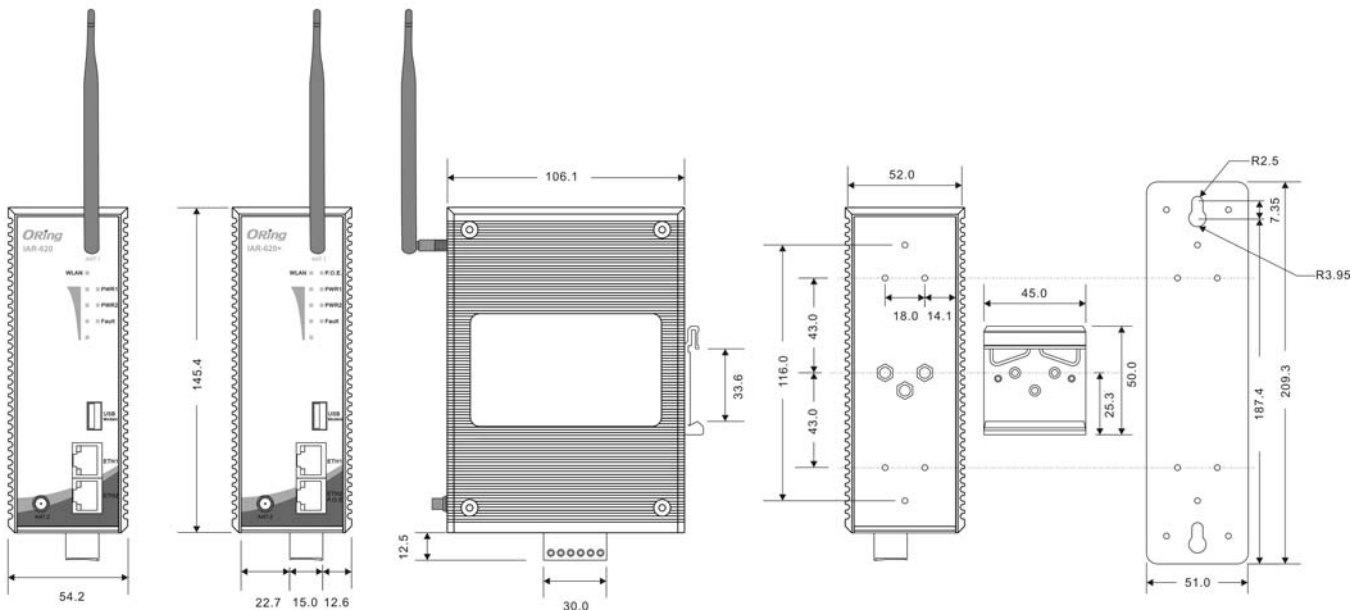
In IAR-620 / IAR-620+, there are 3 modes of routing functions supported: Dynamic/Static IP route, PPPoE dial up, and Modem dial up. IAR-620 / IAR-620+ also support NAT, VPN and Back up functions. You can build up the wireless network and connect to the Internet easily.



Multiple WAN Devices supported

Dimension

Dimension (Unit =mm)



* All specifications are subject to change without notice.

Specifications

ORing AP Router Model	IAR-620	IAR-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
USB Host port	1x USB 2.0 Host port	
WLAN interface		
WAN Connection Type	Static/Dynamic IP · PPPoE · Modem/(56K/GPRS/3G/3.5G Modem) dial up	
Antenna Connector	Reverse SMA x 2	
Radio Frequency Type	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 ±1.5dBm 802.11b: 16dBm ±1.5dBm 802.11g: 14dBm ±1.5dBm 802.11n(2.4G@20MHz): 13dBm ±1.5dBm 802.11n(2.4G@40MHz): 12dBm ±1.5dBm 802.11n(5G@20MHz): 12dBm ±1.5dBm 802.11n(5G@40MHz): 12dBm ±1.5dBm	
Receiver Sensitivity	802.11a: -68dBm ±2dBm@54Mbps 802.11b: -82dBm ±2dBm@11Mbps 802.11g: -68dBm ±2dBm@54Mbps 802.11n(2.4G@20MHz,MCS15): -64dBm ±2dBm 802.11n(2.4G@40MHz,MCS15): -60dBm ±2dBm 802.11n(5G@20MHz,MCS15): -64dBm ±2dBm 802.11n(5G@40MHz,MCS15): -60dBm ±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	
Modem Support		
List	USB modems and ISDN adapters which support the Communication Device Class Abstract Control Model interface List of tested device : 1. Hummingbird huc56s (Conexant) 2. Huawei E220/E230	

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	3. Simense HSDPA-180C 4. Prolific 2303 + serial modem 5. Quanta MUQ101 6. Sony Ericsson MD400/MD400g 7. Sierra C885
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.
10/100TX 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., USB Modem not included)	6 Watts
Overload current protection	Present
Reverse polarity protection	Present
Physical Characteristic	
Enclosure	IP-30
Dimension (W x D x H)	52(W)x106.1(D)x144.3(H) mm (2.05x4.18x5.68 inch.)
Weight (g)	803 g
	807 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
Warranty	3 years

Ordering Information

IAR-ABOC

Code Definition	Wireless Mode	10/100Base-T(X) Port Number	PoE Identification
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	- "+" : PoE P.D. present at ETH2

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

Packing List

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

Optional Accessories

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

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