

IGAR-1062(+)-3G

Industrial IEEE 802.11 a/b/g/n 3G Cellular Router with 2x10/100/1000Base-T(X)

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Features

- High Speed Air Connectivity: WLAN interface support up to 300Mbps link speed
- Provide 2 port 10/100/1000Base-T(X) port and 1 sim card slot
- 3.5G HSDPA Modem dial up included
- 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
- 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, IPSEC, VPN)
- Support NAT Setting (Virtual Server , Port Trigger , DMZ , UPnP)
- > 3G Modem signal information display (un-connecting status)
- Wireless connecting status monitoring
- Versatile modes & event alarm by e-mail
- 1KV isolation for PoE P.D. port of IGAR-1062+-3G
- Event Warning by Syslog, Email, SNMP Trap, Relay and Beeper
- Rigid IP-30 housing design
- DIN-Rail and Wall-mount enabled



















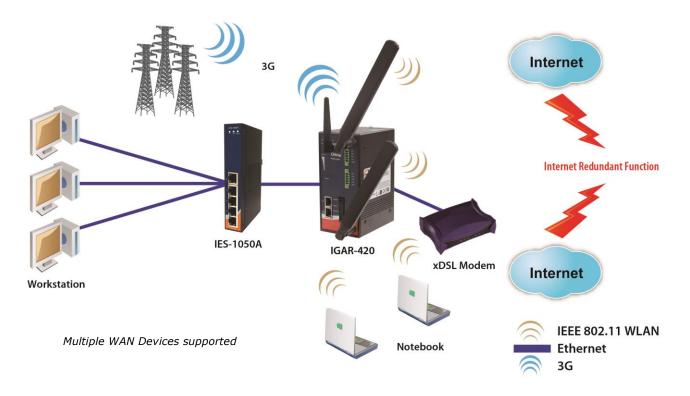


IGAR-1062(+)-3G is a reliable IEEE 802.11 a/b/g/n WLAN VPN router with 2 ports 10/100/1000Base-T(X) router where ETH1 for LAN and ETH2 for WAN. It supports 802.1X and MAC filter for security control. It could be configured to operate in 3 modes of routing function: Dynamic/Static IP route, PPPoE authentication, 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 by internal 3G module. Users can set up WLAN environment to fulfill demands of various applications rapidly by dialing up cellular modems. In addition, IGAR-1062+-3G 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, IGAR-1062(+)-3G is one of the best solution for applications of wireless communication.



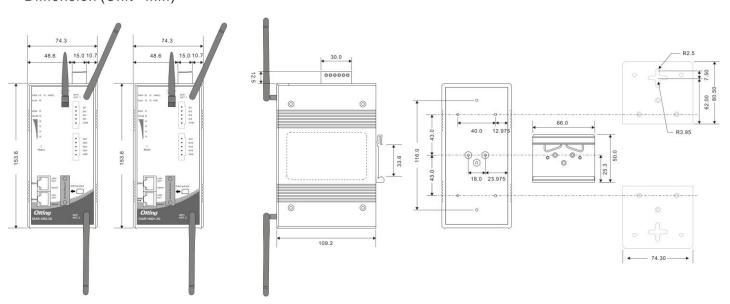
Application

In IGAR-1062(+)-3G, there are 3 modes of routing functions supported: Dynamic/Static IP route, PPPoE dial up, and Modem dial up. IGAR-1062(+)-3G also support NAT, VPN and Back up functions. You can build up the wireless network and connect to the Internet easily.

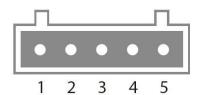


Dimension

Dimension (Unit =mm)



DI/DO Definition



Digital Input Pin Definition

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

Digital Output Pin Definition

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

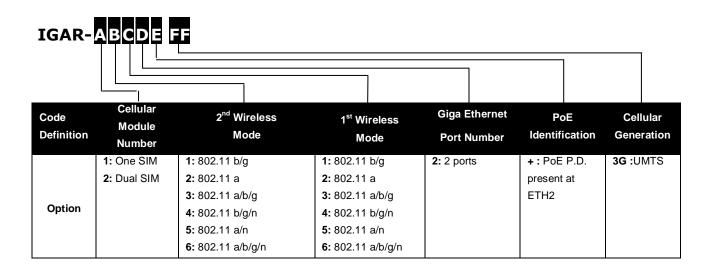
Specifications

ORing AP Router Model	IGAR-1062-3G	IGAR-1062+-3G
Physical Ports		
10/100/1000 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: 108 ohms min
5-Pin Terminal Block	4(DI and DO)	
Sim Card Slot		1
Cellular Interface		
Celluair Standard	GSM / GPRS/ EGPRS/ EDGE / WCDMA / HSDPA / H	HSUPA
Band Option	Dual-band: HSUPA 1900/2100 MHz Quad-band: GSM/GPRS/EDGE 850/900/1800/190 WCDMA/HSDPA 850/900/1900/2100 MHz	00 MHz
WLAN interface		
WAN Connection Type	Static/Dynamic IP · PPPoE · Modem/(56K/GPRS/30	G/3.5G Modem) dial up
Antenna Connector	3 x Reverse SMA Female	
Modulation	IEEE802.11b: CCK/DQPSK/DBPSK IEEE802.11a/g: OFDM 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	802.11b: 1/2/5.5/11 Mbps 802.11a/g: 6/9/12/18/24/36/48/54 Mbps			
a.io.iiiioo.oii ratte	802.11n(40MHz): UP to 300 Mbps			
	802.11a: 12dBm ± 1.5dBm@54Mbps			
	802.11b: 17dBm ± 1.5dBm@11Mbps 802.11g: 16dBm ± 1.5dBm@54Mbps			
Transmit Power	802.11gn HT20: 15dBm ± 1.5dBm @MCS7			
	802.11gn HT40: 14dBm ± 1.5dBm @MCS7			
	802.11an HT20: 12dBm ± 1.5dBm @MCS7			
	802.11an HT40: 11dBm ± 1.5dBm @MCS7 802.11a: -76dBm ± 2dBm@54Mbps			
	802.11b : -85dBm ± 2dBm@11Mbps			
	802.11g : -76dBm ± 2dBm@54Mbps			
Receiver Sensitivity	802.11gn HT20:-75dBm ± 2dBm@MCS7 802.11gn HT40:-72dBm ± 2dBm@MCS7			
	802.11an HT20:-74dBm ± 2dBm@MCS7			
	802.11an HT40:-71dBm ± 2dBm@MCS7			
	WEP: (64-bit ,128-bit key supported)			
Encryption Security	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			
LED indicators				
Power indicator	3 x LEDs, PWR1(2)(PoE) / Ready: Red On : Power is on and booting up			
rower indicator	Green On : Power is on and functioning Normal			
10/100/1000T RJ45 port indicator	2 x LEDs, Green for port Link/ Act at 1000Mbps			
10,100,100011015 port indicator	Amber for port Link/ Act at 100Mbps.			
WLAN LEDs:	Green Solid On: RF on, Blink: data transmitting Green for WLAN Strength: 1<25%, 2<50%, 3<75%, 4<100%			
WAN LEDs:	Green On: Power is on and functioning Normal			
Fault	1 x LED, Red for Ethernet link down or power down indicator			
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	9 Watts			
Overload current protection	Present			
Reverse polarity protection	Present			
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)	1150g 1155g			
Environmental				
Storage Temperature	-40 to 85oC (-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



	Model Name	Description
	IGAR-1062-3G_US	Industrial IEEE 802.11 a/b/g/n Cellular router with 2x10/100/1000Base-T(X), US band
Available	IGAR-1062-3G_EU	Industrial IEEE 802.11 a/b/g/n Cellular router with 2x10/100/1000Base-T(X), EU band
Model	IGAR-1062+-3G_US	Industrial IEEE 802.11 a/b/g/n Cellular router with 2x10/100/1000Base-T(X), 1-port PoE P.D., US band
	IGAR-1062+-3G_EU	Industrial IEEE 802.11 a/b/g/n Cellular router with 2x10/100/1000Base-T(X), 1-port PoE P.D., EU band

Packing List

- IGAR-1062(+)-3G
- 2.5GHz/5GHz Antenna x 2
- 3G Antenna x 1
- 6-Pin Terminal Block x 1
- CD x 1
- Din-Rail Kit x 1
- 5-Pin Terminal Block x 2
- Quick Installation Guide x 1
- Wall-Mount Kit x 2
- Dust Cover x 2

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