

IAR-7002-WA/WA+

Industrial 802.11a/b/g Access Point Router

Highlights

- High Speed Air Connectivity: WLAN interface support up to 54Mbps link speed
- Support IEEE802.11 a/b/g standard.
- 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
- USB interface support 3.5G HSDPA USB Modem dial up
- Support VPN for secured network connection
- Redundant Power Inputs: 12~48VDC on terminal block
- Fully Compliant with IEEE802.3af (Power Device at ETH2, IAR-7002-WA+)
- Secured Management by HTTPS
- Event Warning by Syslog, Email, SNMP Trap, Relay and Beeper
- Support LLDP (802.1AB) for topology view(OPEN-Vision)
- Support STP(802.1D) for wireless/wired redundancy



Features

- WLAN interface support up to 54Mbps link speed
- Various kind of encryption supported: WEP/ WPA/WPA-PSK(TKIP,AES)/WPA2/ WPA2-PSK(TKIP,AES)/802.1X Authentication
- Various kind of WAN Connection Type supported: Dynamic/Static IP, PPPoE, Modem/3G.
- Dual redundant Ethernet port support redundant mode (Recovery time < 10ms)
- Ethernet switch mode enable Daisy Chain
- Wireless connecting status monitoring
- Versatile modes & event alarm by e-mail
- IP table to prevent access from unauthorized IP address
- Support VPN Setting (Open VPN , PPTP VPN)
- Support NAT Setting (Virtual Server , Port Trigger , DMZ , UPnP)
- 1KV isolation for PoE PD port of IAR-7002-WA+
- Dual redundant DC power inputs of terminal block
- Rigid IP-30 housing design
- DIN-Rail and panel mounting enabled

Introduction

IAR-7002-WA/WA+ is a reliable 802.11a/b/g WLAN Access Point with 2 ports 10/100TX ports router where ETH1 for LAN ETH2 for WAN. It supports LLDP for topology discovery and STP for wireless/wired redundant connections. It also 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-7002-WA+ also provides PD feature on ETH2 which is fully compliant with IEEE802.3af P.O.E PD specification. This feature extends the layout up to 100 meters. Therefore, IAR-7002-WA/WA+ are one of the best solution for applications of wireless communication.

Application

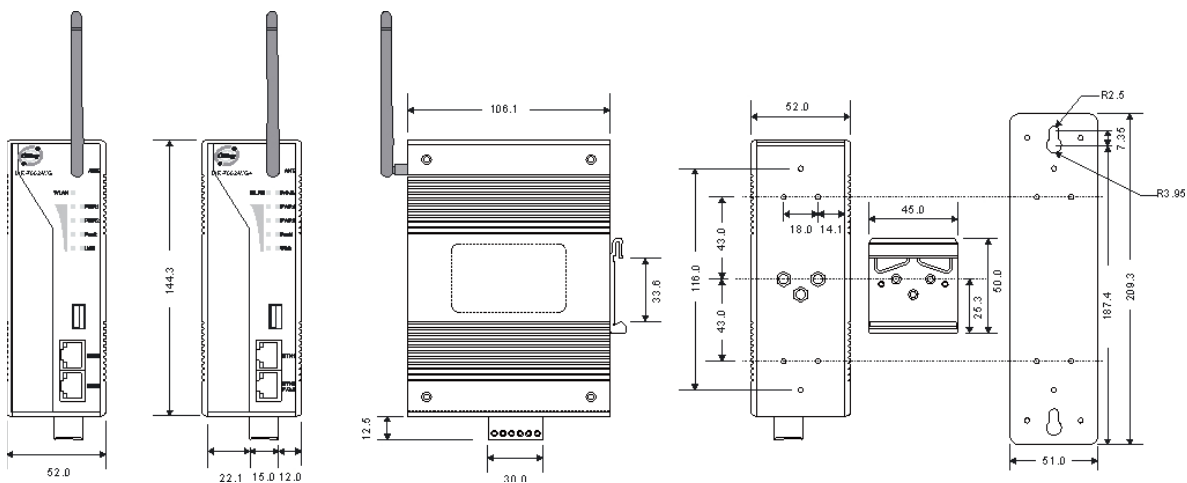
In IAR-7002-WA/WA+, there are 3 modes of routing functions supported: Dynamic/Static IP route, PPPoE dial up, and Modem dial up. IAR-7002-WA/WA+ also support NAT, VPN and Back up functions. You can build up the wireless network and connect to the Internet easily.



Multiple WAN Devices supported

Dimension

(Unit=mm)



Specifications

ORing AP Router Model	IAR-7002-WA	IAR-7002-WA+
Physical Ports		
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX	2	
P.O.E. PD 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	
LED indicators		
WAN Connection Type	Static/Dynamic IP / PPPoE / Modem (56K/GPRS/G/3G/3.5G Modem) dial up	
Antenna Connector	Reverse SMA	
Radio Frequency Type	DSSS	
Modulation	IEEE802.11a: OFDM with BPSK, QPSK, 16QAM, 64QAM OFDM @ 54 Mbps, CCK @ 11/5.5 Mbps, DQPSK @ 2 Mbps, DBSK @ 1 Mbps IEEE802.11b: CCK, DQPSK, DBPSK IEEE802.11g: OFDM with BPSK, QPSK, 16QAM, 64QAM	
Frequency Band	America / FCC : 2.412~2.462 GHz (11 channels) 5.15 to 5.25 GHz (4 channels) Europe CE / ETSI : 2.412~2.472 Ghz (13 channels) 5.15 to 5.25 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	
Transmit Power	IEEE802.11a/b/g: 18dBm	
Receiver Sensitivity	-81dBm @ 11Mbps, PER< 8%; -64dBm @ 54Mbps, PER< 10%	
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	
LED indicators		
Power indicator	PWR 1(2)(P.O.E.) / 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. Yellow for port Link/Act at 10Mbps.	
WLAN LEDs:	WLAN Link /ACT : Green: Link, Orange: Poor signal 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 on terminal block	

