

I(P)WMR-3004

Industrial Multifunction VPN Router w/up to 2x WiFi 11ac + up to 2 LTE 4G + 2 serial ports + 4 Gigabit Ethernet (PoE) Switch + 2WAN ports w/ Load Balancing, VPN, Protocol Gateway, Storage; 24V input**

- Up to 2 concurrent WIFI 11ac and redundancy(1L-2AC model)
- Up to 2 concurrent mobility for 3G/4G LTE Link & GPS(2L-1AC model/4 SIMs)
- Support LTE Cat 6 (APAC & EUNA models) or Cat 12/9/13 (WW model)
- PoE model: Built-in 4 Gigabit PoE at/af Switch with budget 80W@12V/24V/48V
- Dual radio for 802.11ac/a/b/g/n with concurrent 5GHz & 5GHz bands up to 2.6Gbps Wi-Fi bandwidth(2AC model)
- WIFI radio for 802.11ac/a/b/g/n with 5GHz or 2.4GHz;
- Support WIFI 802.11e traffic prioritization and WMM
- MIMO technology 3T3R up to 6 antenna(2AC); SMA type external antennas
- Supports AP/ Bridge/ Client/ MESH modes
- Support Client-base roaming
- Support 802.11s Wireless Mesh Network
- Advanced wireless security WEP64/128bits/ WPA/ WPA-PSK (TKIP,AES)/ WPA2/ WPA2-PSK (TKIP,AES)
- VPN router for Multi-site VPN, OpenVPN, L2TP over IPsec, IPsec, L2 over GRE , IPGRE
- Load Balancing built-in 5 mechanisms
- Optional EMMC Flash storage on-board**
- Support NAT and Firewall
- Support Modbus gateway on serial ports
- Support 2 RS422/RS485 ports or 2x RS232 ports
- Input voltage selection 9~56VDC (24V model)
- Environmental monitoring for router inside info with voltage, current temperature and total PoE load; WIFI & LTE graphic signal strength
- Editable login page of captive portal for hot-spot application
- Optional eSIM chip enables router with versatile data plans**
- USB port to backup, restore the configuration file and upgrade firmware; Dual image firmware



OVERVIEW

Lantech I(P)WMR-3004 series is a next generation industrial multi-function VPN router w/up to 2x 802.11ac Wi-Fi + up to 2x LTE modem + 4x Gigabit Ethernet (PoE) switch + 2WAN + 2 serial ports that supports advanced function of VPN, Load-Balancing, EMMC Flash Storage**, Protocol gateway(Modbus), Storage**, Wi-Fi roaming and LTE quad SIM fail-over for industrial applications. The dual core CPU with 1.6GHz + 256M flash enables the router to multi-task smoothly.

Dual concurrent LTE design 4G/3G for load-balancing

With dual LTE module design (2L model), 4 SIM card slots, it can allow auto-swap, failover & failback between multiple

service providers for real non-stop connection. With concurrent LTE modules, it can also allocate bandwidth by " Load Balancing with 8 schemes between multiple WANs.

With one mobile LTE module (1L model), 2 SIM card slots, I(P)WMR-3004 provides redundant link between two service providers.

Both GPS and Russian GLONASS systems are supported.

Support AP/Bridge/Client mode, Mesh roaming

I(P)WMR-3004 supports AP/Bridge/Client mode for different

applications.

It also supports client-base roaming to swap between the APs in a network.

Built-in Wireless Mesh network (WMN)

I(P)WMR-3004 supports Mesh network composed of different nodes. The set of SSIDs allow the wireless client to roam freely without the need for complicated account management. With Mesh protocol, it can provide a reliable, scalable, stable and seamless network topology.

Optional EMMC Flash storage**

The optional EMMC flash storage on the router can offer 8G/16G/32G capacity.

Optional eSIM**

By replacing physical SIM, optional eSIM chip will allow users to purchase data plans at low prices from local carriers in the world.

IEEE 802.11ac dual band radio up to 2.6Gbps bandwidth

With IEEE 802.11ac capability, I(P)WMR-3004 can operate either 5GHz or 2.4GHz bands, offering the maximum speed of 2.6Gbps bandwidth (1.3Gbps per 1AC). It is also compatible with 802.11b/g/n that can work with 2.4GHz for longer range transmission.

The Wi-Fi 11ac supports AP/Bridge /AP Client modes can be diverse for most of wireless application. Working with load-Balancing "Priority" mode, the AP client can enable router to transmit on Wi-Fi with first priority.

MIMO technology with 3T3R and SMA type connectors

Lantech I(P)WMR-3004 series adapts MIMO technology with smart antenna transmission and reception for 3T3R. With six external detachable omni connectors and optional antennas, I(P)WMR-3004 can have better Wi-Fi & LTE/GPS coverage.

Wireless WMM QoS

I(P)WMR-3004 supports 802.11e standard which defines a set of Quality of Service for wireless LAN applications as well as WMM (WIFI multimedia)

Advanced security & 16 SSIDs

The security support standards including 64/128bits WEP, WPA/WPA2 PSK (TKIP, AES), 802.1x ensures the best security and active defense against security treads. Lantech I(P)WMR-3004 support up to 16 SSIDs, each SSID has its independent security and encryption.

Load Balancing with 5 mechanisms for multi-WANs

I(P)WMR-3004 supports Load Balancing for LTE/WAN connections. There are five schemes for Load Balancing function:

Pack	Algorithm	Description
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Basic	Fixed	All traffic will be distributed to a single WAN.
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.
	Priority	Select the active WAN according to priority.
	Weighted Round-Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights.
	Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.

2 port serial connection, Modbus gateway

It builds in 2 port serial connection for RS232, RS422, RS485.

The built-in Modbus gateway can convert Modbus RTU/ASCII to Modbus TCP for device control.

VPN and firewall

Besides traditional VPN peer to peer tunneling, I(P)WMR-3004 support latest Multi-Site VPN function that is an efficient way for Mesh tunneling. The registration is under cloud service and encrypted by SSH makes the connection easy and safe.

It supports Multi-Site VPN, OpenVPN, L2TP over IPsec, IPsec, L2 over GRE, IPGRE, and NAT for various VPN applications.

The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP / UDP port number.

Support Routing Protocol: Static route / RIPv2 / OSPF / BGP / EIGRP

Lantech router series supports two routing methods: static routing and dynamic routing. Dynamic routing makes use of RIPv2, OSPF, EIGRP and BGP. The user can either choose one routing method to establish the routing table.

DIDO for alarm & email notice; Event log; Remote Web control

2 sets of DIDO function can support additional high/low physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the router was moved or stolen. In case of events, the I(P)WMR-3004 will immediately send email and trap.

When the router is at remote area with limited access, Web control can help to get router status or remotely reboot.

Wide range input voltage from 9V-56VDC; PoE model built-in 4 port PoE at/af switch with 80W@12V /24V/48V

The I(P)WMR-3004 is able to work from 9VDC to 56VDC and PoE model built-in PoE at/af with PoE budget 80W@12V /24V/48V that is particular good for vehicle, rail train, depot etc. application.

**Environmental monitoring for inside router info& alerting;
Graphic WIFI & LTE signal strength**

The built-in environmental monitoring can detect router ambient temperature, voltage, current and total PoE load where can send the SNMP traps Syslog and email when abnormal.

The graphic WIFI & LTE signal strength shows connection status at a glance

Built-in Managed Switch Function

Managed switch function is built-in and provides various L2+ functions for network aggregation deployment. It delivers ports and PoE management, VLAN, QoS, multicast, redundant ring, and security functions.

USB port for back up, restore configuration and upgrade firmware; Dual image firmware

The built-in USB port can upload/download the firmware through USB dongle for router replacement

It support dual-image firmware to choose which one to start.

Editable login page of captive portal

The I(P)WMR-3004 supports editable captive portal function that allows administrator to force end-users redirect to authentication page.

Ruggedized industrial design and FCC, CE & E-marking certificate**

The I(P)WMR-3004 is designed to meet with industrial network environment with IP30 housing. It passed serious tests under extensive Industrial EMI and environmental vibration and shocks standards.

With CE & FCC radio certification for WIFI and LTE and E-marking** certificate, the I(P)WMR-3004 is best for outdoor community, vehicle, process control automation etc. For more usage flexibilities, I(P)WMR-3004 supports wide operating temperature from -40°C to 65°C.

FEATURES & BENEFITS

- High Speed Air Connectivity: WLAN interface support up to 2.6Gbps link speed(2AC) or 1.3Gbps (1AC)
- Built-in 4 Gigabit (PoE) switch + 2 WAN port
- PoE model with 80W@12V /80W@24V&48V PoE budget
- Dual band 2.4G and 5GHz with 802.11ac/a/b/g/n
- EMMC-FLASH storage**8/16/32G
- eSIM** to allow data-plan globally
- Support 2.4Ghz operating within the following frequency bands:
 - 2.412~2.472 GHz
- Support 5Ghz operating within the following frequency bands:
 - 5.180~5.825 GHz
- MIMO smart antenna technology with 3T3R
- 6 SMA type connectors for Wi-Fi & LTE, GPS
- Output power : <24dBm Transmit power adjustment
- VAP (virtual access point) support up to 16 SSIDs
- Operation modes : AP/ Bridge / Client
- IEEE 802.11h DFS and automatic TPC
- Support AP/Bridge/Client/Mesh mode
- Support Client-base roaming
- Support 802.11s Wireless Mesh Network
- Traffic control for each SSID
- Band preference for same SSID services on dual band
- Highly Security Capability: WEP64/128bits/ WPA/ WPA-PSK (TKIP,AES)/ WPA2/ WPA2-PSK (TKIP,AES)
- HTTP/HTTPS/Telnet/SSH & Administration access
- Support IPv6 & IPv4 protocol
- Radius Authentication, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported
- Multiple channel bandwidths of 20MHz and 40MHz for 2.4G.

- Multiple channel bandwidths of 20MHz, 40MHz and 80MHz for 5G only.
- Wi-Fi Multimedia (WMM) and 802.11e traffic prioritization
- Support Multi-Site VPN for Mesh tunneling as well as Open VPN, L2TP over IPsec, IPsec, L2 over GRE , IPGRE and NAT for secured network connection
- Support Routing Protocol: Static route / RIPv2 / OSPF / BGP / EIGRP
- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/ UDP port number
- NAT/DMZ/Port Forwarding
- Support SNMP v1/v2c/v3
- Dual concurrent LTE 4G/3G design (2L model)for auto-swap/failover/failback between multiple ISPs for continuous service (four SIM card slots)
- One LTE 4G/3G w/ 2 SIM card design (1L model) for mobile redundancy
- GPS/ GLONASS (support by LTE module) connection
- Load Balancing supports 5 mechanism between multiple WANs

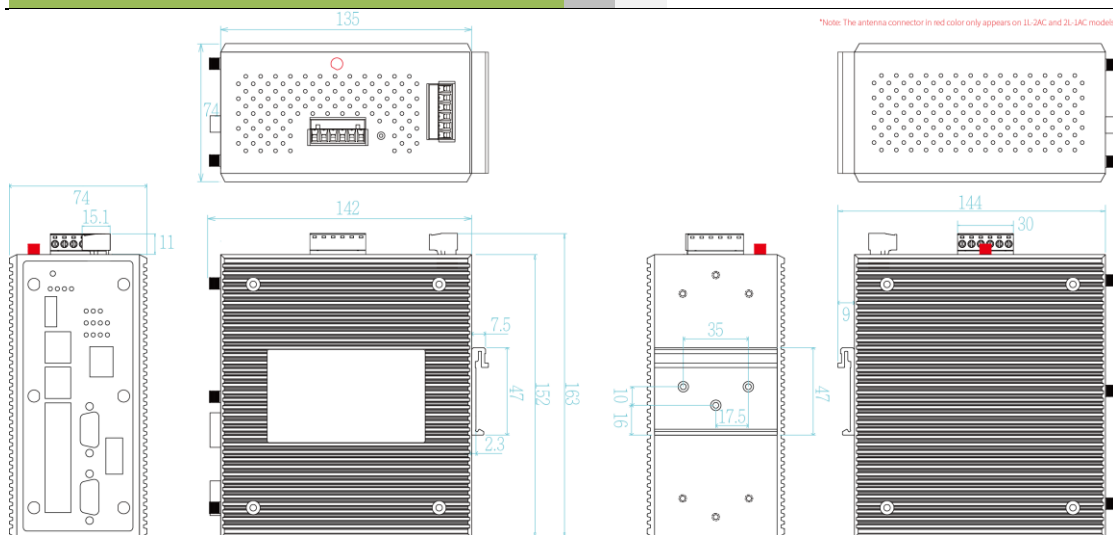
Pack	Algorithm	Description
Basic	Fixed	All traffic will be distributed to a single WAN.
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.
	Priority	Select the active WAN according to priority.
	Weighted	Evenly distribute the traffic over all

Round-Robin	working WAN links in circular order according to the specified weights.
Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.

- Built-in 2 x serial ports (RS232/RS422/RS485)
- Supports 2DI / 2DO (Digital Input / Output)
- Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP for serial ports
- Event alerting by Syslog, SNMP Trap, Email, Relay ; Permanent local log rotation / Maxi 1K records
- Remote Web control to get status or re-boot by Web
- Graphic LTE & WIFI signal strength
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client

- Built-in environmental monitoring for system input voltage, current and ambient temperature; Able to set alert when abnormal
- Dual image firmware to choose which to start
- Firmware upgradeable through TFTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download firmware by USB dongle
- Reset button for factory default mode
- Support editable captive portal login page
- IP30 housing for industrial environment
- DIN-Rail and Wall-mount** installation
- Operation temperature -40°C to 65°C

DIMENSIONS (unit=mm)



SPECIFICATION

WLAN Interface		802.11b/g/n(2.4Gbps)	18dBm @ 1~11Mbps 18dBm @ 6~54Mbps 20/20dBm @ MCS0~MCS7 (HT20/40) Receiver Sensitivity Rx +/- 2dB ≤ -95dBm @ 1~11Mbps ≤ -92dBm @ 6~18Mbps ≤ -88dBm @ 24Mbps ≤ -85dBm @ 36Mbps ≤ -81dBm @ 48Mbps ≤ -80dBm @ 54Mbps ≤ -94dBm @ MCS0 (HT20/40) ≤ -76dBm @ MCS7 (HT20/40)
Radio Frequency Type	DSSS, OFDM		
Wireless Standard	IEEE 802.11ac/n/a 5GHz IEEE 802.11b/g/n 2.4GHz		
Wireless bandwidth	5GHz: Up to 1300Mbps 2.4GHz: Up to 450Mbps		
Modulation	802.11b: DSSS 802.11a/g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)		
Operating Frequency	IEEE 802.11 a/b/g/n ISM Band, 2.412GHz~2.472GHz, 5150MHz~5850MHz		
Transmission Rate	IEEE802.11ac: up to 1300Mbps IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps IEEE802.11n: up to 450Mbps		
IEEE	Output Power Tx +/- 2dB(per chain)	IEEE 802.11a/n/ac(5Gbps)	Output Power Tx +/- 2dB(per chain) 20dBm @ 6~24Mbps 16dBm @ 36~54Mbps 19/18dBm @ MCS0 (HT20/40) 16/16dBm @ MCS7 (HT20/40) 19/18/18dBm @ MCS0 (VHT20/40/80) 13/13/13dBm @ MCS8 (VHT20/40/80) 13/13dBm @ MCS9 (VHT40/80) Receiver Sensitivity Rx +/- 2dB ≤ -92dBm @ 6~18Mbps

	<p>≤-86dBm @ 24Mbps ≤-84dBm @ 36Mbps ≤-81dBm @ 48Mbps ≤-80dBm @ 54Mbps ≤-93dBm @ MCS0 (HT20/40) ≤-71dBm/≤-80dBm @ MCS7 (HT20/40) ≤-90dBm @ MCS0 (VHT20/40/80) ≤-69dBm @ MCS8 (VHT20/40/80) ≤-66dBm @ MCS9 (VHT40/80)</p>	<p>FDD: 50 Mbps TDD: 26 Mbps</p> <p>World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps</p>
Encryption Security	<p>WEP : (64-bit ,128-bit key supported) WPA/WPA2 : IEEE802.11i(WEP and AES encryption) WPA-PSK (256-bit key pre-shared key supported) EAP-TLS,EAP-TTLS, and PEAP</p>	
Wireless Security	SSID broadcast disable	
LED Indicators		
System & Power	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red) , Ring Master(Green), Storage(Green), Serial1/Serial2(Green) ,Ready(Green)	
10/100/1000Base-T(X) port indicator	Link/Activity (Green), Speed (Yellow), PoE (Green, PoE model)	
SIM	Green for Link/Act	
GPS	Green for Link/Act	
Fault	Red: Ethernet link down or power down	
Fault contact	IEEE 802.11 a/b/g/n ISM Band, 2.412GHz~2.472GHz, 5150MHz~5850MHz	
Relay	Relay output to carry capacity of 1A at 24VDC	
Power	<p>Output Power Tx +/- 2dB(per chain) 18dBm @ 1~11Mbps 18dBm @ 6~54Mbps 20/20dBm @ MCS0~MCS7 (HT20/40) Receiver Sensitivity Rx +/- 2dB ≤-95dBm @ 1~11Mbps ≤-92dBm @ 6~18Mbps ≤-88dBm @ 24Mbps ≤-85dBm @ 36Mbps ≤-81dBm @ 48Mbps ≤-80dBm @ 54Mbps ≤-94dBm @ MCS0 (HT20/40) ≤-76dBm @ MCS7 (HT20/40)</p>	
Input power	Dual DC input, 9~56VDC (24V model)	
PoE Budget	80W@12V/24V/48V	
Power consumption (Typ.)	30.5W (1L1AC)	
Cellular Interface		
Location Solutions	GPS, Glonass (EUNA/Americas) GPS, Glonass, Beidou, Galileo (APAC model only)	
Band Options	<p>Asia-Pacific (APAC model) LTE = B1, B3, B5*, B7, B8, B18*, B19*, B21*, B28, B38 (TDD), B39* (TDD), B40 (TDD), B41* (TDD) DC-HSPA+/ HSPA+/ HSPA/ UMTS = B1, B5*, B6*, B8, B9*, B19*</p> <p>Europe & North America (EUNA model) LTE = B1, B2*, B3, B4*, B5*, B7, B8, B12*, B13*, B20, B25*, B26*, B29*, B30*, B41* (TDD) DC-HSPA+/ HSPA+/ HSPA/ UMTS = B1, B2*, B3, B4*, B5*, B8</p> <p>World Wide (WW model) LTE = B1, B2*, B3, B4*, B5*, B7, B8, B9*, B12*, B13*, B18*, B19*, B20, B26*, B28, B29*, B30*, B32*, B41* (TDD), B42* (TDD), B43* (TDD), B46* (TDD), B48* (TDD), B66* WCDMA = B1, B2*, B3*, B4*, B5*, B6*, B8, B9*, B19*</p>	
Data Rates – LTE	<p>Asia-Pacific (APAC model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps</p> <p>Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6):</p>	
		<p>Software</p> <p>IPv6/4 Present</p> <p>Operation Mode Supports AP/ Bridge/ Client/ MESH modes</p> <p>WMM WIFI multimedia and 802.11e traffic prioritization</p> <p>VPN Multi-site VPN, Open VPN, L2TP over IPSec, IPSec, L2 over GRE, IPGRE and NAT</p> <p>Firewall DDoS, IP address filter / Mac address filter / TCP/UDP port number.</p> <p>Load Balancing 5 schemes for multiple WAN</p> <p>Basic</p> <p>Fixed All traffic will be distributed to a single WAN.</p> <p>Failover Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.</p> <p>Priority Select the active WAN according to priority.</p> <p>Weighted Round-Robin Evenly distribute the traffic over all working WAN links in circular order according to the specified weights</p> <p>Custom Route Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address.</p> <p>Security WEP64/128bits/ WPA/ WPA-PSK (TKIP,AES)/ WPA2/ WPA2-PSK (TKIP,AES)/SSH/SSL/HTTPS</p> <p>Roaming Client-base roaming</p> <p>MESH Support 802.11s Wireless Mesh Network</p> <p>Authentication Radius Authentication, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported</p> <p>SSID 16 sets</p> <p>Login Security Supports IEEE802.1x Authentication/RADIUS</p> <p>Access Security HTTP/HTTPS/Telnet/SSH & Administration; SNMP v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3)</p> <p>Protocol PPPoE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ, NAT, SNTP, Firewall(Firewall(DDoS/ IP address filter / Mac address filter / TCP/UDP port name),VRRP, DDNS</p> <p>Routing Static route / RIPv2 / OSPF / BGP / EIGRP</p> <p>Protocol Gateway Modbus on serial ports</p> <p>Management SNMP v1,v2c,v3/ Web/Telnet/CLI</p> <p>Environmental Monitoring System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status</p> <p>Graphic signal display Graphic WIFI & LTE signal strength & TX/RX rate display</p> <p>Timer Built-in Real Time Clock to keep track of time always(RTC)</p> <p>Discovery IEEE 802.1ab Link Layer Discovery Protocol (LLDP)</p> <p>SNMP trap Device cold / warm start Port link up / link down DI/DO high / low</p> <p>Remote Web control To reboot or get status of router by Web UI</p> <p>Captive portal Editable captive portal login page</p> <p>Maintenance Firmware upgradeable through TFTP/ HTTP</p> <p>Configuration backup & restore Supports text configuration file for system quick installation USB port to upload/download firmware by USB dongle</p> <p>Physical Ports & System</p> <p>Connectors 10/100/1000T: 6x ports RJ 45 with 2 WAN ports and 4 PoE ports (PoE model) USB x 1 RS-232 connector: 1 x RJ 45 Serial connector : 2 DB9 SIM card slots : 4(2L) or 2(1L) 2L-1AC model SMA connector for LTE: 4 (female) SMA connector for GPS: 1 (female) RP-SMA connector for Wi-Fi: 2 (female) 1L-2AC model SMA connector for LTE: 2 (female) SMA connector for GPS: 1 (female)</p>

	RP-SMA connector for Wi-Fi: 4 (female) 1L-1AC model SMA connector for LTE: 2 (female) SMA connector for GPS: 1 (female) RP-SMA connector for Wi-Fi: 3 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO: 1 x 5-pole terminal block		Dimension	74 (W) x 142 (D) x 152 (H) mm (1L-1AC model) 74 (W) x 142 (D) x 159 (H) mm (1L-2AC / 2L-1AC model)
Serial Baud Rate	1000Kbps high data rate,250kbps normal for RS232 ; 20Mbps high data rate,250kbps normal for RS422/RS485		Weight	900g
Serial Data Bits	5, 6, 7, 8	Environmental		
Serial Parity	odd, even, none, mark, space		Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Serial Stop Bits	1, 1.5, 2		Operating Temperature	-40°C ~ 65°C (-4°F ~ 149°F)
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND		Operating Humidity	5% to 95% Non-condensing
RS-422	Tx+,Tx-, Rx+, Rx-,GND	Regulatory approvals		
RS-485 (2-wire)	Data+, Data-,GND		Safety	EN 62368
Isolation protection	Input power to I/O: 1.5KV isolation Input power to Ethernet 1.5KV isolation Input power to PoE port 1.5KV isolation (PoE model)		EMC	FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4
EMMC Storage**	8/16/32 GB		EMS	IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF)
DI/DO	2 Digital Input (DI) : Level 0: -30~2V / Level 1: 10~30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA		Radio Frequency	EN 301 489-1, EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 302 502, EN 301 893, EN 300 328, EN 301 908-1※, EN 303 413, EN 62311
LED Indicators			Vehicle certificate	E13**
System & Power	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red) , Ring Master(Green), Storage(Green), Serial1/Serial2(Green) ,Ready(Green)		MTBF	1,361,618hrs (IEC-62380)
10/100/1000Base-T(X) port indicator	Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off), PoE (Green, PoE model)		Warranty	5 years
SIM	Green for Link/Act			
GPS	Green for Link/Act			
Fault	Red: Ethernet link down or power down			
Fault contact				
Relay	Relay output to carry capacity of 1A at 24VDC			
Power				
Input power	Dual DC input, 9~56VDC (24V model)			
PoE Budget (PoE model)	80W@12V/24V/48V			
Power consumption (Typ.)	30.5W (1L1AC)			
Physical Characteristic				
Enclosure	IP30 Metal case			

*Future Release

**Optional

※Standard test of the following bands are not listed in EN 301 908-1 report:

(APAC not listed bands) LTE = B5, B18, B19, B21, B39, B41

WCDMA = B5, B6, B9, B19;

(EUNA not listed bands) LTE = B2, B4, B5, B12, B13, B25, B26, B29, B30, B41

WCDMA = B2, B4, B5;

(WW not listed bands) LTE = B2, B4, B5, B9, B12, B13, B18, B19, B26, B29, B30, B32,

B41, B42, B43, B46, B48, B66

WCDMA = B2, B3, B4, B5, B6, B9, B19

RF Performance Table

	Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
2.4GHz 802.11b	1Mbps	20dBm	25dBm	±2dB	-95dBm	±2dB
	2Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	5.5Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
	11Mbps	20dBm	25dBm	±2dB	-90dBm	±2dB
2.4GHz 802.11g	6Mbps	21dBm	26dBm	±2dB	-94dBm	±2dB
	9Mbps	21dBm	26dBm	±2dB	-93dBm	±2dB
	12Mbps	21dBm	26dBm	±2dB	-93dBm	±2dB
	18Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
	24Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
	36Mbps	20dBm	25dBm	±2dB	-85dBm	±2dB
	48Mbps	19dBm	24dBm	±2dB	-82dBm	±2dB
	54Mbps	18dBm	23dBm	±2dB	-80dBm	±2dB
2.4GHz 802.11n HT20	MCS 0	21dBm	26dBm	±2dB	-94dBm	±2dB
	MCS 1	21dBm	26dBm	±2dB	-92dBm	±2dB
	MCS 2	21dBm	26dBm	±2dB	-89dBm	±2dB
	MCS 3	20dBm	25dBm	±2dB	-84dBm	±2dB
	MCS 4	20dBm	25dBm	±2dB	-83dBm	±2dB
	MCS 5	20dBm	25dBm	±2dB	-80dBm	±2dB
	MCS 6	18dBm	23dBm	±2dB	-79dBm	±2dB
	MCS 7	16dBm	21dBm	±2dB	-77dBm	±2dB
2.4GHz 802.11n HT40	MCS 0	20dBm	25dBm	±2dB	-93dBm	±2dB
	MCS 1	20dBm	25dBm	±2dB	-91dBm	±2dB
	MCS 2	20dBm	25dBm	±2dB	-89dBm	±2dB
	MCS 3	19dBm	24dBm	±2dB	-84dBm	±2dB
	MCS 4	19dBm	24dBm	±2dB	-82dBm	±2dB
	MCS 5	19dBm	24dBm	±2dB	-80dBm	±2dB
	MCS 6	18dBm	23dBm	±2dB	-79dBm	±2dB
	MCS 7	16dBm	21dBm	±2dB	-75dBm	±2dB

	Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
5GHz 802.11a	6Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	9Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	12Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
	18Mbps	20dBm	25dBm	±2dB	-91dBm	±2dB
	24Mbps	20dBm	25dBm	±2dB	-90dBm	±2dB
	36Mbps	18dBm	23dBm	±2dB	-86dBm	±2dB
	48Mbps	16dBm	21dBm	±2dB	-83dBm	±2dB
	54Mbps	15dBm	20dBm	±2dB	-80dBm	±2dB
5GHz 802.11n/ac VHT20	MCS 0	19dBm	24dBm	±2dB	-93dBm	±2dB
	MCS 1	19dBm	24dBm	±2dB	-90dBm	±2dB
	MCS 2	19dBm	24dBm	±2dB	-87dBm	±2dB
	MCS 3	18dBm	23dBm	±2dB	-83dBm	±2dB
	MCS 4	18dBm	23dBm	±2dB	-80dBm	±2dB
	MCS 5	17dBm	22dBm	±2dB	-77dBm	±2dB
	MCS 6	16dBm	21dBm	±2dB	-74dBm	±2dB
	MCS 7	14dBm	19dBm	±2dB	-73dBm	±2dB
5GHz 802.11n/ac VHT40	MCS 8	13dBm	18dBm	±2dB	-71dBm	±2dB
	MCS 0	18dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 1	18dBm	23dBm	±2dB	-88dBm	±2dB
	MCS 2	18dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 3	17dBm	22dBm	±2dB	-82dBm	±2dB
	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
	MCS 5	16dBm	21dBm	±2dB	-75dBm	±2dB
	MCS 6	15dBm	20dBm	±2dB	-73dBm	±2dB
	MCS 7	14dBm	19dBm	±2dB	-73dBm	±2dB
	MCS 8	13dBm	18dBm	±2dB	-70dBm	±2dB
5GHz 802.11ac VHT80	MCS 9	13dBm	18dBm	±2dB	-68dBm	±2dB
	MCS 0	18dBm	23dBm	±2dB	-89dBm	±2dB
	MCS 1	18dBm	23dBm	±2dB	-87dBm	±2dB
	MCS 2	18dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 3	17dBm	22dBm	±2dB	-83dBm	±2dB
	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
	MCS 5	16dBm	21dBm	±2dB	-78dBm	±2dB
	MCS 6	15dBm	20dBm	±2dB	-75dBm	±2dB
	MCS 7	14dBm	19dBm	±2dB	-72dBm	±2dB
	MCS 8	13dBm	18dBm	±2dB	-70dBm	±2dB

ORDERING INFORMATION

- **IPWMR-3004-2L-1AC-2S-24V-EUNA.....P/N: 8663-011**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/ 2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-2L-1AC-2S-24V-WW.....P/N: 8663-012**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/ 2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-2L-1AC-2S-24V-APAC.....P/N: 8663-013**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/ 2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-2L-1AC-2SA-24V-EUNA.....P/N:8663-0111**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-2L-1AC-2SA-24V-WW.....P/N: 8663-0121**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-2L-1AC-2SA-24V-APAC.....P/N: 8663-0131**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-2L-1AC-2SB-24V-EUNA.....P/N:8663-0112**

- Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-2L-1AC-2SB-24V-WW.....P/N: 8663-0122**
- Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-2L-1AC-2SB-24V-APAC.....P/N: 8663-0132**
- Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2S-24V-EUNA.....P/N: 8663-021**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2S-24V-WW.....P/N: 8663-022**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2S-24V-APAC.....P/N: 8663-023**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2SA-24V-EUNA.....P/N:8663-0211**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2SA-24V-WW.....P/N:8663-0221**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2SA-24V-APAC.....P/N:8663-0231**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2SB-24V-EUNA.....P/N:8663-0212**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2SB-24V-WW.....P/N:8663-0222**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-1AC-2SB-24V-APAC.....P/N:8663-0232**
- Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2S-24V-EUNA.....P/N: 8663-031**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/ 2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2S-24V-WW.....P/N: 8663-032**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/ 2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2S-24V-APAC.....P/N: 8663-033**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/ 2 RS232 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2SA-24V-EUNA.....P/N:8663-0311**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2SA-24V-WW.....P/N:8663-0321**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2SA-24V-APAC.....P/N:8663-0331**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS422 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2SB-24V-EUNA.....P/N:8663-0312**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; EU and US band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2SB-24V-WW.....P/N:8663-0322**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPWMR-3004-1L-2AC-2SB-24V-APAC.....P/N:8663-0332**
- Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing AP VPN Mobile Router w/2 RS485 serial ports and 4 Giga PoE at/af Switch + 2WAN ports; APAC band; dual 9V~56VDC input; -40~65C
- **IWMR-3004-2L-1AC-2S-24V-EUNA.....P/N: 8620-011**
- Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; EU and US band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-2L-1AC-2S-24V-WW.....P/N: 8620-012**
- Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C

- **IWMR-3004-2L-1AC-2S-24V-APAC.....P/N: 8620-013**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-2L-1AC-2SA-24V-EUNA.....P/N: 8620-0111**
Industrial Dual LTE(Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; EU and US band ; dual input 9V~56VDC; -40~65C
- **IWMR-3004-2L-1AC-2SA-24V-WW.....P/N: 8620-0121**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-2L-1AC-2SA-24V-APAC.....P/N: 8620-0131**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-2L-1AC-2SB-24V-EUNA.....P/N: 8620-0112**
Industrial Dual LTE(Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; EU and US band ; dual input 9V~56VDC; -40~65C
- **IWMR-3004-2L-1AC-2SB-24V-WW.....P/N: 8620-0122**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-2L-1AC-2SB-24V-APAC.....P/N: 8620-0132**
Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2S-24V-EUNA.....P/N: 8620-021**
Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; EU and US band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2S-24V-WW.....P/N: 8620-022**
Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2S-24V-APAC.....P/N: 8620-023**
Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2SA-24V-EUNA.....P/N: 8620-0211**
Industrial One LTE(Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; EU and US band ; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2SA-24V-WW.....P/N: 8620-0221**
Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2SA-24V-APAC.....P/N: 8620-0231**
Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2SB-24V-EUNA.....P/N: 8620-0212**
Industrial One LTE(Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; EU and US band ; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2SB-24V-WW.....P/N: 8620-0222**
Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-1AC-2SB-24V-APAC.....P/N: 8620-0232**
Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2S-24V-EUNA.....P/N: 8620-031**
Industrial One LTE(Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; EU and US band ; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2S-24V-WW.....P/N: 8620-032**
Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2S-24V-APAC.....P/N: 8620-033**
Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2SA-24V-EUNA.....P/N: 8620-0311**
Industrial One LTE(Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; EU and US band ; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2SA-24V-WW.....P/N: 8620-0321**
Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2SA-24V-APAC.....P/N: 8620-0331**
Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2SB-24V-EUNA.....P/N: 8620-0312**
Industrial One LTE(Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C

- Ethernet managed switch + 2WAN ports; EU and US band ; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2SB-24V-WW.....P/N: 8620-0322**
Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; Worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3004-1L-2AC-2SB-24V-APAC.....P/N: 8620-0332**
Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 4 Giga Ethernet managed switch + 2WAN ports; APAC band; dual input 9V~56VDC; -40~65C

EMMC Flash Storage

- **8G.....P/N: 8850-113**
- **16G.....P/N: 8850-114**
- **32G.....P/N: 8850-115**

OPTIONAL ACCESSORIES

Management System

- **InstaAir.....P/N: 9000-121**
Cloud Based Fleet Management System for Routers

GPS Antenna

- **ANT12000001** SMA GPS antenna, 28dB, 300m



Cellular Antenna

- **ANT11000041** 2G/3G/4G dipole antenna, 791-960/1710~2170/2500~2700MHz, 3dBi, SMA plug, EU



- **ANT11000042** 2G/3G/4G dipole antenna, 704-960/1710~2170MHz, 3dBi, SMA plug, US



- **ANT11000044** 2G/3G/4G dipole antenna, 704-960/1710~2690MHz, 1.6dBi, SMA plug, EU



- **ANT11000045** 2G/3G/4G dipole antenna, 698-960/1710~2690MHZ, 3dBi, SMA plug, US



Wi-Fi Antenna

- **ANT11000051** 2.4/5GHz SMA dipole Wi-Fi antenna, 3dBi (2.4GHz), 4dBi (5GHz)



- **ANT11000055** 2.4/5GHz SMA dipole Wi-Fi antenna, 6dBi (2.4GHz), 4dBi (5GHz)



Antenna Base

- **ADA11000052** Magnetic antenna base for Wi-Fi, RP SMA Jack Base, Length : 1M



- **ADA11000053** Magnetic antenna base for 3G/4G, RP SMA Jack Base, Length : 1M



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