

IWMR-3003

Industrial Multifunction VPN Router w/up to 2x WiFi 11ac + up to 2 LTE 4G + up to 4 serial ports + 3 Gigabit Ethernet (incl.1 PD) w/Load Balancing, VPN, Protocol Gateway, Storage, 12V/ 24V input**

- Up to 2 concurrent WIFI 11ac and redundancy (1L-2AC model)
- Up to 2 concurrent modems for 3G/4G LTE Link & GPS (2L-1AC model/4 SIMs)
- Built-in 3 Gigabit Ethernet ports (2LAN+1WAN or 3LAN or 3 WAN) (incl. 1PD)
- Dual radio for 802.11ac/a/b/g/n with concurrent 5GHz & 5GHz bands up to 2.6Gbps Wi-Fi bandwidth (2AC model)
- MIMO technology 3T3R; SMA type up to 6 external antennas
- VPN router for Multi-site VPN, OpenVPN, L2TP over IPsec, IPsec, L2 over GRE, IPGRE
- Load Balancing built-in 5 mechanism
- Optional EMMC Flash storage on-board**
- Support Client-base roaming
- Supports AP/Bridge/Client/MESH modes
- Support 802.11s Wireless Mesh Network
- Support NAT and Firewall
- Support Modbus gateway
- Support 2 RS422/RS485 ports or 2/4x RS232 ports (RJ45 model only)
- Dual Input voltage 9~56VDC (12V model); Dual Input voltage 9~36VDC (24V model)
- Wi-Fi & LTE graphic signal strength
- Editable login page of captive portal for hot-spot application
- USB port to backup, restore the configuration file and upgrade firmware; Dual image firmware
- Optional eSIM chip enables router with versatile data plans**
- Vehicle E-marking** certificate (24V model)
- ITxPT design w/ ignition function** (24V-IGN model)
- EN50155/61373/45545 verification for railway application (except 24V-IGN model)



RJ45 model



M12 model



OVERVIEW

Lantech IWMR-3003 series is a next generation industrial multi-function VPN router w/up to 2x 802.11ac Wi-Fi + up to 2x LTE modem + 3 x Gigabit Ethernet (incl.1 PD) +4 serial ports (RJ45 model only) that supports advanced function of VPN, Load-Balancing, EMMC Flash Storage**, Protocol gateway(Modbus), 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, IWMR-3003 can allow auto-swap, failover & fallback 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, 2 SIM card slots, IWMR-3003 provides redundant link between two service providers.

Both GPS and Russian GLONASS systems are supported.

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, IWMR-3003 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 802.11g/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 IWMR-3003 series adapts MIMO technology with smart antenna transmission and reception for 3T3R. With six external detachable omni connectors and optional antennas, IWMR-3003 can have better Wi-Fi coverage.

Support AP/Bridge/Client mode, Mesh roaming
IWMR-3003 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)
IWMR-3003 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.

Wireless WMM QoS
IWMR-3003 supports 802.11e standard which defines a set of Quality of Service for wireless LAN applications as well as WMM (Wi-Fi 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 trends. Lantech IWMR-3003 support up to 16 SSIDs, each SSID has its independent security and encryption.

Load Balancing with 5 mechanisms for multi-WANs
IWMR-3003 supports Load Balancing for LTE/WAN connections. There are five schemes for Load Balancing function:

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 Round-Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights.
	Custom	Routing through the selected WAN for

Route	each specific traffic, ex: TCP/UDP port number and IP address.
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2 or 4 port serial connection, Modbus gateway
It builds in 2 or 4 port serial connection for RS232, RS422, RS485. (RJ45 model only)

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, IWMR-3003 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.

Email notice; Event log; Remote Web control
In case of events, the IWMR-3003 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.

12V/24V input voltage selection: dual 9~56VDC (12V model) or dual 9~36VDC (24V model)
The IWMR-3003 is able to work at dual 9~56VDC (12V model) or dual 9~36VDC (24V model).

Built-in 3 port Gigabit Ethernet
3 port Gigabit Ethernet can be supported as 2LAN+1WAN or 3LAN or 3 WAN models.

Graphic Wi-Fi & LTE signal strength
The graphic Wi-Fi & LTE signal strength shows connection status at a glance.

USB port for back up, restore configuration and upgrade firmware; Dual image firmware
The built-in USB port can upload/download the configuration through USB dongle for router replacement.

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

Ignition Sensing (24V-IGN model)**
Ignition sense allows you to delay power off the router with a designated time delay.

Editable login page of captive portal
The IWMR-3003 supports editable captive portal function that allows administrator to force end-users redirect to

authentication page.

Ruggedized industrial design and FCC, CE certificate

The IWMR-3003 is designed to meet with outdoor network environment with IP30 (IP43 for M12 model) housing. It passed serious tests under extensive Industrial EMI and environmental vibration and shocks standards. With CE & FCC radio certification for Wi-Fi and LTE, the IWMR-3003 is best for outdoor community, vehicle, and process control automation applications.

For more usage flexibilities, IWMR-3003 supports wide operating temperature from -40°C to 65°C

EN50155, EN61373 verification; E-marking certification; ITxPT** design**

The IWMR-3003 series is also applicable for railway on-board/track side, vehicle and mining applications for more usage flexibilities. The series is verified with EN50155, EN61373, and EN45545 for railway applications (Except 24V-IGN model). The E-marking certificate (24V model) and ITxPT design (24V-IGN model).

FEATURES & BENEFITS

- High Speed Air Connectivity: WLAN interface support up to 2.6Gbps link speed(2AC) or 1.3Gbps(1AC)
- Built-in 3 Gigabit ports and 2LAN+1WAN or 3 LAN or 3 WAN (incl.1 PD)
- Support AP/Bridge/Client/MESH mode
- Support Client-base roaming
- Support 802.11s Wireless Mesh Network
- EMMC-FLASH storage** 8/16/32G
- eSIM** to allow data-plan globally
- Dual band 2.4G and 5GHz with 802.11ac/a/b/g/n
- 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 with 6 SMA type connectors and optional antennas
- IEEE 802.11h DFS and automatic TPC
- Output power: <24dBm
- Transmit power adjustment
- VAP (virtual access point) support up to 16 SSIDs
- Operation modes: AP / Bridge / Client
- 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
- Support SNMP v1/v2c/v3
- NAT/DMZ/Port Forwarding
- 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 connection
- Load Balancing supports 5 mechanism between multiple WANs

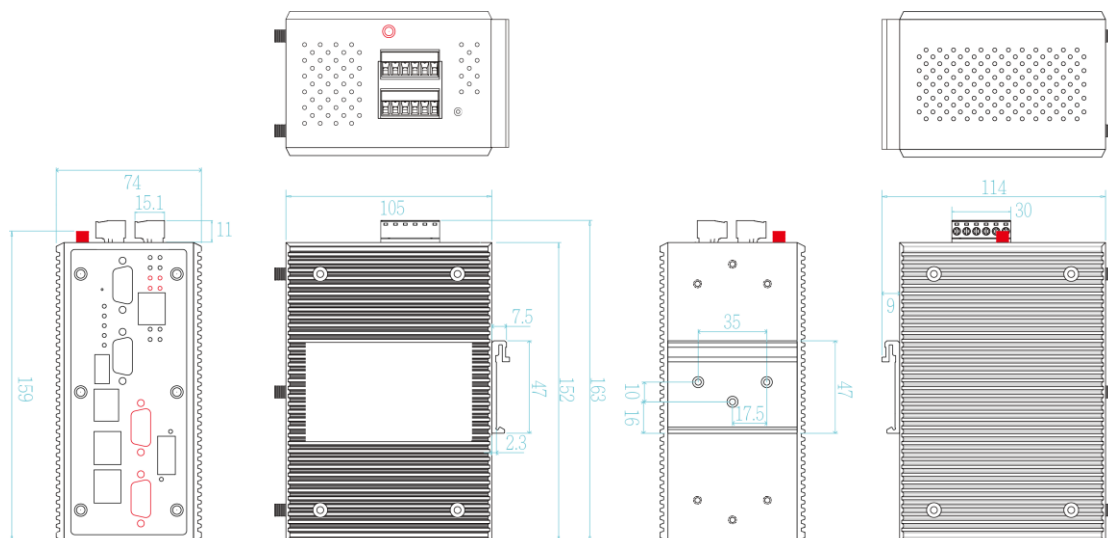
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	Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.

- Built-in 2 or 4 x serial ports (RS232/RS422/RS485) (RJ45 model only)
- Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP
- 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
- Built-in RTC to keep track of time always
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Reset button for factory default mode
- Graphic LTE & WIFI signal strength
- Firmware upgradeable through TFTP/HTTP

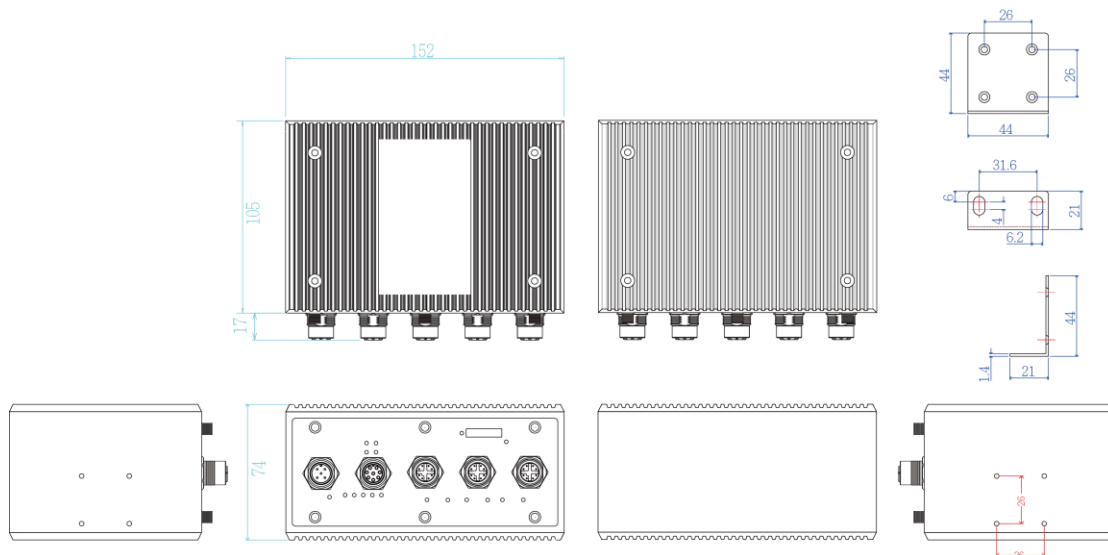
- **Configuration backup and restoration**
 - Supports text configuration file for system quick installation
 - USB port to upload/download configuration by USB dongle
- Support editable captive portal login page
- IP30 (RJ45 model)/ IP43 (M12 model) housing for industrial environment
- RJ45 model: DIN-Rail and Wall-mount** installation
- M12 model: Wall-mount installation
- Supports 2DI / 2DO (Digital Input / Output) (RJ45 model)
- Operation temperature -40°C to 65°C
- Wide range power input voltage: Dual 9~56VDC (12V model); Dual 9~36VDC (24V model)
- ITxPT design w/ ignition function** (24V-IGN model)
- E-marking** certification (24V model)
- EN50155 & EN61373 verification (Except 24V-IGN model)

DIMENSIONS (unit=mm)

RJ45, 12V/24V model



M12, 12V/24V Model



SPECIFICATION

WLAN Interface		IEEE 802.11b/g/n 2.4GHz	
Radio Frequency Type	DSSS, OFDM	Wireless bandwidth	5GHz: Up to 1300Mbps 2.4GHz: Up to 450Mbps
Wireless Standard	IEEE 802.11ac/n/a 5GHz	Modulation	802.11b: DSSS

	<p>802.11a/g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)</p> <p>802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)</p> <p>802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)</p>																																																								
Operating Frequency	IEEE 802.11 a/b/g/n ISM Band, 2.412GHz~2.472GHz, 5150MHz~5850MHz		TDD: 26 Mbps																																																						
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		<p>Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps</p>																																																						
IEEE 802.11b/g/n(2.4Gbps)	<p>Output Power Tx +/- 2dB (per chain) 18dBm @ 1~11Mbps 18dBm @ 6~54Mbps 20/20dBm @ MCS0~MCS7 (HT20/40)</p> <p>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>		<p>World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps</p>																																																						
IEEE 802.11a/n/ac(5Gbps)	<p>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)</p> <p>Receiver Sensitivity Rx +/- 2dB ≤ -92dBm @ 6~18Mbps ≤ -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>																																																								
Encryption Security	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, MD5, EAP, TLS, EAP, TTLS, EAP PEAP																																																								
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Location Solutions	GPS, Glonass (EU/Americas) GPS, Glonass, Beidou, Galileo (APAC model only)																																																								
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Antenna Connectors	SIM card slots : 4(2L) or 2(1L) 2L-1AC model SMA connector for LTE: 4 (female) SMA connector for GPS: 2 (female) RP-SMA connector for Wi-Fi 1AC: 2 (female) 1L-2AC model SMA connector for LTE: 2 (female) SMA connector for GPS: 1 (female) RP-SMA connector for Wi-Fi 2AC: 4 (female)	Temperature	
Serial Band Rate	1000Kbps high data rate,250kbps normal for RS232 ; 20Mbps high data rate,250kbps normal for RS422/RS485 (RJ45 model only)	Operating Humidity	5% to 95% Non-condensing
Serial Data Bits	5, 6, 7, 8	Regulatory approvals	
Serial Parity	odd, even, none, mark, space	Safety	EN 62368-1
Serial Stop Bits	1, 1.5, 2	EMC	FCC Part 15B Class A, ICES-003 ISSUE7, EN 55032: 2015, EN 55024: 2015 IEC 61000-6-2, IEC 61000-6-4 BS EN55032, BS EN55024
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	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) BS EN61000-4-2, BS EN61000-4-3, BS EN61000-4-4, BS EN61000-4-5, BS EN61000-4-6, BS EN61000-4-8,
RS-422	Tx+,Tx-, Rx+, Rx-,GND	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
RS-485 (2-wire)	Data+, Data-,GND	Stability Testing	IEC 60068-2-27 (Shock) IEC 60068-2-31 (Shock) IEC 60068-2-64 (Vibration) IEC 60068-2-80 (Vibration)
Isolation protection	Input power to I/O: 1.5KV isolation Input power to Ethernet 1.5KV isolation	Vehicle Certificate (24V model)	E13 marking** (UN ECE R10)
EMMC Storage**	8/16/32 GB	Vehicle Compliance (24V model)	UN ECE R118, ITxPT design** (ITxPT design is IGN model only)
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	Railway Compliance (Except -IGN model)	EN50155 EN61373 EN45545 IEC 60571
LED Indicators		MTBF	1,161,227Hrs (standards: IEC62380)
Power & System indicator	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Serial (Green), Ready (Green)	Warranty	5 years
10/100/1000Base-T(X) port indicator	Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off)	*Future Release	
LTE	Green: Link/Act	**Optional	
GPS	Green: Link/Act	**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	
WLAN	Green: 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 (12V model) Dual DC input, 9~36VDC (24V model)		
Power consumption (Typ.)	20 Watts		
Physical Characteristic			
Enclosure	IP 30 Metal case (RJ45 model) IP 43 Metal case (M12 model)		
Dimension	RJ45, 12V/ 24V model: 74 (W) x 114 (D) x 152 (H) mm M12 model: 74 (W) x 122 (D) x 152 (H) mm		
Weight	900g		
Installation	RJ45 model: DIN-Rail and Wall-mount** installation M12 model: Wall-mount installation		
Environmental			
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)		
Operating	-40°C ~65°C (-40°F ~ 149°F)		

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
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 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 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
MCS 9	13dBm	18dBm	±2dB	-68dBm	±2dB	

ORDERING INFORMATION

1. M12 models are available with -M12 model names (-2S/-4S/-2SA/-2SB/-2S2SA/-2S2SB are RJ45 models only)
2. 2 RS422 models are available with -2SA; 2 RS485 models are available with -2SB; 2 RS232+ 2 RS422 models are available with -2S2SA; 2 RS232+ 2 RS485 models are available with -2S2SB (RJ45 models only)
3. For 24V model are all available with -IGN model name (w/ ignition)

12V model

- **IWMR-3003-2L-1AC-2S-12V-EUNA.....P/N: 8699-001**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-2L-1AC-2S-12V-WW.....P/N: 8699-002**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-2L-1AC-2S-12V-APAC.....P/N: 8699-003**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-2L-1AC-4S-12V-EUNA.....P/N: 8699-004**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-2L-1AC-4S-12V-WW.....P/N: 8699-005**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-2L-1AC-4S-12V-APAC.....P/N: 8699-006**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-1AC-2S-12V-EUNA.....P/N: 8699-007**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-1AC-2S-12V-WW.....P/N: 8699-008**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-1AC-2S-12V-APAC.....P/N: 8699-009**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-1AC-4S-12V-EUNA.....P/N: 8699-010**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-1AC-4S-12V-WW.....P/N: 8699-011**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-1AC-4S-12V-APAC.....P/N: 8699-012**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-2AC-2S-12V-EUNA.....P/N: 8699-013**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC -40~65C
- **IWMR-3003-1L-2AC-2S-12V-WW.....P/N: 8699-014**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-2AC-2S-12V-APAC.....P/N: 8699-015**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-2AC-4S-12V-EUNA.....P/N: 8699-016**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC -40~65C
- **IWMR-3003-1L-2AC-4S-12V-WW.....P/N: 8699-017**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-1L-2AC-4S-12V-APAC.....P/N: 8699-018**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-M12-2L-1AC-12V-EUNA.....P/N: 8699-103**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-M12-2L-1AC-12V-WW.....P/N: 8699-1031**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-M12-2L-1AC-12V-APAC.....P/N: 8699-1032**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-M12-1L-1AC-12V-EUNA.....P/N: 8699-104**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet

- (incl. 1PD); EU and US band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-M12-1L-1AC-12V-WW.....P/N: 8699-1041**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-M12-1L-1AC-12V-APAC.....P/N: 8699-1042**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-M12-1L-2AC-12V-EUNA.....P/N: 8699-105**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~56VDC -40~65C
- **IWMR-3003-M12-1L-2AC-12V-WWP/N: 8699-1051**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IWMR-3003-M12-1L-2AC-12V-APACP/N: 8699-1052**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C

24V model

- **IWMR-3003-2L-1AC-2S-24V-EUNA.....P/N: 8699-019**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-2L-1AC-2S-24V-WW.....P/N: 8699-020**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-2L-1AC-2S-24V-APAC.....P/N: 8699-021**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-2L-1AC-4S-24V-EUNA.....P/N: 8699-022**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-2L-1AC-4S-24V-WW.....P/N: 8699-023**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-2L-1AC-4S-24V-APAC.....P/N: 8699-024**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-1AC-2S-24V-EUNA.....P/N: 8699-025**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-1AC-2S-24V-WW.....P/N: 8699-026**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-1AC-2S-24V-APAC.....P/N: 8699-027**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-1AC-4S-24V-EUNA..... P/N: 8699-028**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-1AC-4S-24V-WW.....P/N: 8699-029**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-1AC-4S-24V-APAC.....P/N: 8699-030**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-2AC-2S-24V-EUNA.....P/N: 8699-031**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC -40~65C
- **IWMR-3003-1L-2AC-2S-24V-WWP/N: 8699-032**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-2AC-2S-24V-APACP/N: 8699-033**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-2AC-4S-24V-EUNA.....P/N: 8699-034**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port

- Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC -40~65C

■ **IWMR-3003-1L-2AC-4S-24V-WWP/N: 8699-035**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-1L-2AC-4S-24V-APACP/N: 8699-036**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-M12-2L-1AC-24V-EUNA.....P/N: 8699-0191**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-M12-2L-1AC-24V-WW.....P/N: 8699-106**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-M12-2L-1AC-24V-APAC.....P/N: 8699-1061**
Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-M12-1L-1AC-24V-EUNA.....P/N: 8699-0251**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-M12-1L-1AC-24V-WW.....P/N: 8699-107**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-M12-1L-1AC-24V-APAC.....P/N: 8699-1071**
Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-M12-1L-2AC-24V-EUNA.....P/N: 8699-108**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); EU and US band; dual input 9V~36VDC -40~65C
- **IWMR-3003-M12-1L-2AC-24V-WWP/N: 8699-1081**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IWMR-3003-M12-1L-2AC-24V-APACP/N: 8699-1082**
Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing Multifunction Router w/ 3 port M12 Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -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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