

# IMR-3003

Industrial Multifunction VPN Router w/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/ WV input

- Up to 2 concurrent modems for 3G/4G LTE Link & GPS(2L model/4 SIMs)
- Built-in 3 Gigabit Ethernet ports (2LAN+1WAN or 3LAN or 3 WAN) (incl. 1PD)
- Support LTE Cat 6 (APAC & EUNA models) or Cat 12/9/13 (WW model)
- VPN router for Multi-site VPN, OpenVPN, L2TP over IPsec, IPsec, L2 over GRE, IPGRE
- Optional EMMC Flash storage on-board\*\*
- Load Balancing built-in 5 mechanism
- Support NAT and Firewall
- Support Modbus gateway
- Support 2 RS422/RS485 ports with 2.5KV isolation or 2/4x RS232 ports (RJ45 model only)
- Dual Input voltage 9~56VDC (12V model); Dual Input voltage 9~36VDC (24V model); Dual input power 16.8~137.5VDC (WV model)
- LTE graphic signal strength
- Editable login page of captive portal for hot-spot application
- Vehicle E-marking\*\* certificate (24V model)
- ITxPT compliant w/ ignition function\*\* (24V-IGN model)
- Optional eSIM chip enables router with versatile data plans\*\*
- USB port to backup, restore the configuration file and upgrade firmware; Dual image firmware
- EN50155\*/61373\*/45545 verification for railway application (except 24V-IGN model)



RJ45 model



M12 model



## OVERVIEW

Lantech IMR-3003 series is a next generation industrial multi-function VPN router w/ up to 2x LTE modem + 3x 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), 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, IMR-3003 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, 2 SIM card slots, IMR-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 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.

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

Pack	Algorithm	Description
------	-----------	-------------

<b>Basic</b>	Fixed	Manually route by traffic type through fixed WAN link.
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not fallback until link loss.
	Priority	Routes connections through preferred WAN link as primary while others follow by. Ex. Wi-Fi client>LTE>others
	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.

**4 port serial connection, Modbus gateway**

It builds in 4 port serial connection for RS232, RS422, RS485 in which RS422/RS485 has 2.5KV isolation protection. (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, IMR-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.

**Email notice; Event log; Remote Web control**

In case of events, the IMR-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.

**Built-in 3 port Gigabit Ethernet**

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

**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.

**12V/24V/WV input voltage selection: dual 9~56VDC (12V model) or dual 9~36VDC (24V model) or dual 16.8~137.5VDC (WV model)**

The IMR-3003 is able to work at dual 9~56VDC (12V model) or dual 9~36VDC (24V model). Or with dual wide range power supply at 16.8~137.5VDC (WV model, RJ45 model only).

**Ruggedized industrial design and FCC, CE certificate**

The IMR-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 LTE, the IMR-3003 is best for outdoor community, vehicle, and process control automation applications.

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

**EN50155\*, EN61373\* verification\*; E-marking\*\* certification; ITxPT\*\* compliant**

The IMR-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 compliant (24V-IGN model).

**FEATURES & BENEFITS**

- Built-in 3 Gigabit ports and 2LAN+1WAN or 3 LAN or 3 WAN (incl.1 PD)
- HTTP/HTTPS/Telnet/SSH & Administration access
- Radius Authentication, EAP-TLS, EAP-TTLS, PEAP
- Support IPv6 & IPv4 protocol
- 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
- 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
- EMMC-FLASH storage\*\*8/16/32G
- eSIM\*\* to allow data-plan globally
- 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

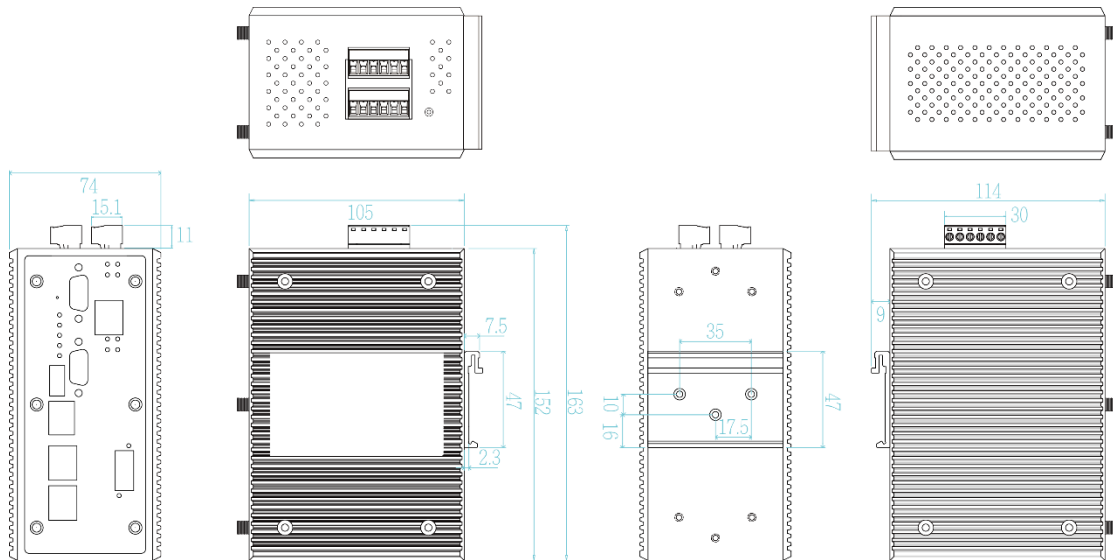
Pack	Algorithm	Description
Basic	Fixed	Manually route by traffic type through fixed WAN link.
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not fallback until link loss.
	Priority	Routes connections through preferred WAN link as primary while others follow by. Ex. Wi-Fi client>LTE>others
	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.

- Built-in 4 x serial ports (RS232/RS422/RS485) (RJ45 model only)
- Serial port with 2.5KV isolation on RS422/RS485
- Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP
- Event alerting by Syslog, SNMP Trap, Email, Relay ;

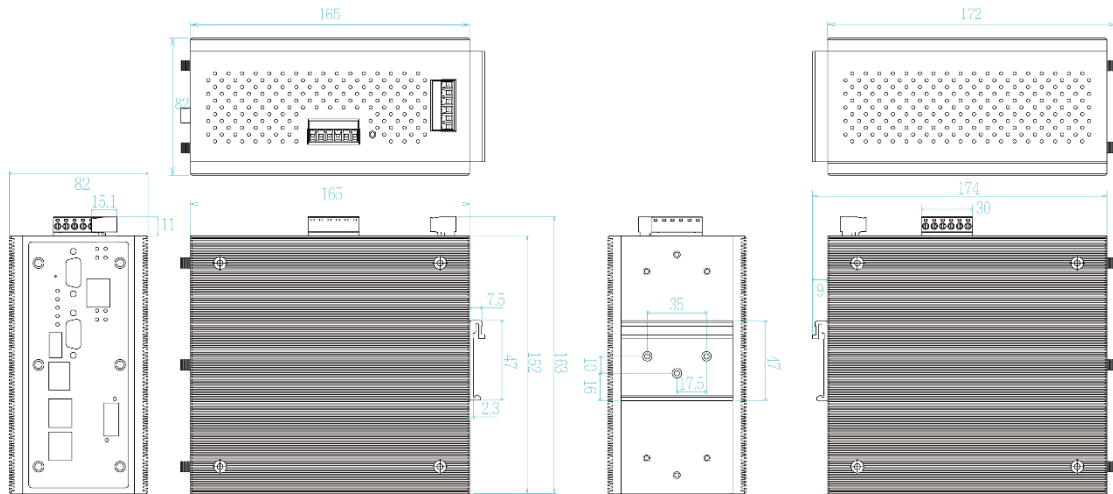
- Permanent local log rotation / Maxi 1K records
- Remote Web control to get status or re-boot by Web
- Built-in RTC to keep track of time always
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Reset button for factory default mode
- Graphic LTE 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
- IP30 (RJ45 model)/ IP43 (M12 model) housing for industrial environment
- DIN-Rail and Wall-mount\*\* installation
- Supports 2DI / 2DO (Digital Input / Output) (RJ45 model)
- Operation temperature -40~65°C
- ITxPT compliant w/ ignition function\*\* (24V-IGN model)
- E-marking\*\* certification (24V model)
- EN50155\* & EN61373\* verification (Except 24V-IGN model)
- Wide range power input voltage: Dual 9~56VDC (12V model); Dual 9~36VDC (24V model); Dual 16.8~137.5VDC (WV model)

**DIMENSIONS (unit=mm)**

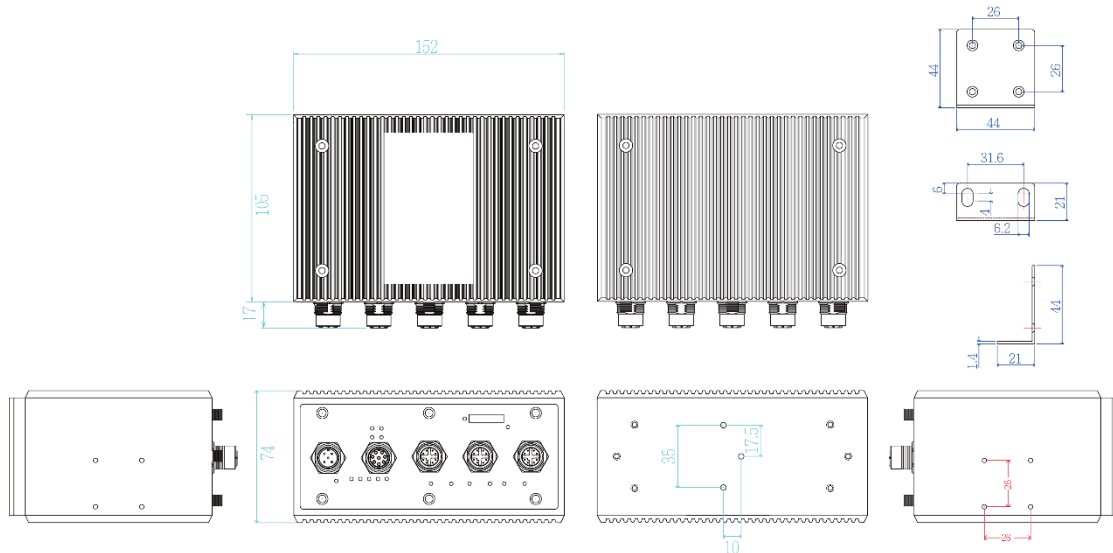
RJ45, 12V/24V model



**RJ45, WV model**



**M12, 12V/24V/WV Model**



**SPECIFICATION**

Location Solutions	GPS, Glonass (EU/Americas) GPS, Glonass, Beidou, Galileo (APAC model only)	TDD: 26 Mbps
Band Options	<b>Asia-Pacific (APAC model)</b> 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  <b>Europe &amp; North America (EUNA model)</b> 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  <b>World Wide (WW model)</b> 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	<b>Europe &amp; North America (EUNA model)</b> Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps  <b>World Wide (WW model)</b> Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps
Data Rates – LTE	<b>Asia-Pacific (APAC model)</b> Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps	<b>Software</b>
		IPv6/4 Present
		Login Security Supports IEEE802.1x Authentication/RADIUS
		Access Security HTTP/HTTPS/Telnet/SSH & Administration; SNMP v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3)
		Protocol PPPoE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ, NAT, SNTP, Firewall(Firewall(DDoS; IP address filter / Mac

Management	address filter / TCP/UDP port name), VRRP, DDNS SNMP v1, v2c, v3 / Web/Telnet/CLI	EMMC Storage**	Input power 1.5KVA isolation 8/16/32 GB
Load Balancing	5 schemes for multiple WAN	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
<b>Basic</b>		<b>LED Indicators</b>	
Fixed	Manually route by traffic type through fixed WAN link.	Power & System indicator	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Storage (Green), Serial (Green), Ready (Green)
Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs.	10/100/1000Base-T(X) port indicator	Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off)
Priority	Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs.	LTE	Green: Link/Act
Weighted Round-Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights	GPS	Green: Link/Act
Custom Route	Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address.	Fault	Red: Ethernet link down or power down
Security	SSH/SSL/HTTPS	<b>Fault contact</b>	
Timer	Built-in Real Time Clock to keep track of time always(RTC)	Relay	Relay output to carry capacity of 1A at 24VDC
Discovery	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	<b>Power</b>	
SNMP trap	Device cold / warm start Port link up / link down	Input power	Dual DC input, 9~56VDC (12V model) Dual DC input, 9~36VDC (24V model) Dual DC input, 16.8~137.5VDC (WV model)
Graphic signal display	Graphic LTE signal strength & TX / RX rate display	Power consumption (Typ.)	20 Watts
Remote Web control	To reboot or get status of router by WebUI	<b>Physical Characteristic</b>	
Maintenance	Firmware upgradeable through TFTP/HTTP	Enclosure	IP 30 Metal case (RJ45 model) IP 43 Metal case (M12 model)
Configuration backup & restore	Supports text configuration file for quick system installation USB port to upload/download configuration by USB dongle	Dimension	<b>RJ45, 12V/ 24V model:</b> 74 (W) x 114 (D) x 152 (H) mm <b>RJ45, WV model:</b> 82 (W) x 172 (D) x 152 (H) mm <b>M12 model:</b> 74 (W) x 122 (D) x 152 (H) mm
<b>Physical Ports &amp; System</b>		Weight	900g
Connectors	<b>RJ45 model</b> 10/100/1000T: 3x ports RJ 45 with Auto MDI/MDI-X function (one port PD) USB x 1 Console connector: 1 x RJ 45 Serial connector : 2 or 4 x DB9 Power & P-Fail connector: 1 x 6-pole terminal block SIM card slots : 4(2L) or 2(1L)  <b>M12 model</b> 10/100/1000T: 3x M12 8-pole X-coded Female with Auto MDI/MDI-X function (one port PD) Power & P-Fail connector: M12 5-pole A-coded Male Reset/ Console/ USB connector: M12 8-pole A-coded Female SIM card slots : 4(2L) or 2(1L)	<b>Environmental</b>	
Antenna Connectors	<b>2L model</b> SMA connector for LTE: 4 (female) SMA connector for GPS: 2 (female) <b>1L model</b> SMA connector for LTE: 2 (female) SMA connector for GPS: 1 (female)	Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Serial Baud Rate	1000Kbps high data rate, 250kbps normal for RS232 ; 20Mbps high data rate, 250kbps normal for RS422/485 (RJ45 model only)	Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)
Serial Data Bits	5, 6, 7, 8	Operating Humidity	5% to 95% Non-condensing
Serial Parity	odd, even, none, mark, space	<b>Regulatory approvals</b>	
Serial Stop Bits	1, 1.5, 2	Safety	EN 62368*
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	EMC	FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4
RS-422	Tx+, Tx-, Rx+, Rx-, 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)
RS-485 (2-wire)	Data+, Data-, GND	Radio Frequency	EN 301 489-1, EN 301 489-17, EN 301 489-19, EN 301 489-52
Isolation protection	RS422/RS485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air ESD DIDO 2.5KV isolation	Vehicle Certificate (24V model)	E13 marking** (UN ECE R10)
		Vehicle Compliance (24V model)	UN ECE R118, ITxPT compliant** (ITxPT compliant is IGN model only)
		Railway Compliance (Except -IGN model)	EN50155* EN61373* EN45545
		MTBF	1,161,227hrs (standards: IEC 62380)
		Warranty	5 years

\*Future Release

\*\*Optional

## 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 models

- **IMR-3003-2L-2S-12V-EUNA.....P/N: 8611-201**  
Industrial Dual LTE (Quad SIM) 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
- **IMR-3003-2L-2S-12V-WW.....P/N: 8611-202**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IMR-3003-2L-2S-12V-APAC.....P/N: 8611-203**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IMR-3003-2L-4S-12V-EUNA.....P/N: 8611-204**  
Industrial Dual LTE (Quad SIM) 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
- **IMR-3003-2L-4S-12V-WW.....P/N: 8611-205**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IMR-3003-2L-4S-12V-APAC.....P/N: 8611-206**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IMR-3003-1L-2S-12V-EUNA.....P/N: 8611-207**  
Industrial One LTE (Dual SIM) 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
- **IMR-3003-1L-2S-12V-WW.....P/N: 8611-208**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IMR-3003-1L-2S-12V-APAC.....P/N: 8611-209**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C
- **IMR-3003-1L-4S-12V-EUNA.....P/N: 8611-210**  
Industrial One LTE (Dual SIM) 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
- **IMR-3003-1L-4S-12V-WW.....P/N: 8611-211**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~56VDC; -40~65C
- **IMR-3003-1L-4S-12V-APAC.....P/N: 8611-212**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~56VDC; -40~65C

### 24V models

- **IMR-3003-2L-2S-24V-EUNA.....P/N: 8611-213**  
Industrial Dual LTE (Quad SIM) 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
- **IMR-3003-2L-2S-24V-WW.....P/N: 8611-214**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IMR-3003-2L-2S-24V-APAC.....P/N: 8611-215**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IMR-3003-2L-4S-24V-EUNA.....P/N: 8611-216**  
Industrial Dual LTE (Quad SIM) 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
- **IMR-3003-2L-4S-24V-WW.....P/N: 8611-217**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IMR-3003-2L-4S-24V-APAC.....P/N: 8611-218**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C



- **IMR-3003-1L-2S-24V-EUNA.....P/N: 8611-219**  
Industrial One LTE (Dual SIM) 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
- **IMR-3003-1L-2S-24V-WW.....P/N: 8611-220**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IMR-3003-1L-2S-24V-APAC.....P/N: 8611-221**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C
- **IMR-3003-1L-4S-24V-EUNA.....P/N: 8611-222**  
Industrial One LTE (Dual SIM) 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
- **IMR-3003-1L-4S-24V-WW.....P/N: 8611-223**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 9V~36VDC; -40~65C
- **IMR-3003-1L-4S-24V-APAC.....P/N: 8611-224**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 9V~36VDC; -40~65C

**WV models**

- **IMR-3003-2L-2S-WV-EUNA.....P/N: 8611-225**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-2L-2S-WV-WW.....P/N: 8611-226**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-2L-2S-WV-APAC.....P/N: 8611-227**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-2L-4S-WV-EUNA.....P/N: 8611-228**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-2L-4S-WV-WW.....P/N: 8611-229**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-2L-4S-WV-APAC.....P/N: 8611-230**  
Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-1L-2S-WV-EUNA.....P/N: 8611-231**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-1L-2S-WV-WW.....P/N: 8611-232**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-1L-2S-WV-APAC.....P/N: 8611-233**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 2 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-1L-4S-WV-EUNA.....P/N: 8611-234**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); EU and US band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-1L-4S-WV-WW.....P/N: 8611-235**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); worldwide band; dual input 16.8V~137.5VDC; -40~65C
- **IMR-3003-1L-4S-WV-APAC.....P/N: 8611-236**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/ 4 RS232 serial ports and 3 port Gigabit Ethernet (incl. 1PD); APAC band; dual input 16.8V~137.5VDC; -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

### 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



### GPS Antenna

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



### Antenna Base

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



Lantech Communications Global Inc.

www.lantechcom.tw  
info@lantechcom.tw

© 2021 Copyright Lantech Communications Global Inc. all rights reserved.  
The revise authority rights of product specifications belong to Lantech Communications Global, Inc.  
In a continuing effort to improve and advance technology, product specifications are subject to change without notice.