**Lantech**
Pioneering Industrial and IP Networks

# IMR-3002

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

- *Up to 2 concurrent modem for 3G/4G LTE Link & GPS(2L model/4 SIMs)*
- *Built-in 2 Gigabit Ethernet ports incl. 1 PD port (1LAN+1WAN or 2LAN)*
- *VPN router for Multi-site VPN, OpenVPN, L2TP, IPSec, PPTP***
- *Load Balancing** support 8 mechanism*
- *Support NAT and Firewall*
- *Support Modbus / DNP3** gateway*
- *Support 2/4 RS422/485 ports with 2.5KV isolation or 2/4x RS232 ports*
- *Wide input range from 9V to 60VDC for vehicle, station and process automation applications*
- *LTE graphic signal strength & TX/RX rate display*
- *Optional storage microSD** for storage backup or multi-media content suit with load-balancing*
- *Editable login page of captive portal for hot-spot application*
- *USB port to backup, restore the configuration file and upgrade firmware*; Dual image firmware**

**4S model**   **2S model**

Protocol GATEWAY    MULTI-SITE VPN    LOAD BALANCING

CE   FC   RoHS2   MicroSD

## OVERVIEW

Lantech IMR-3002 series is a next generation industrial multi-function VPN router w/ up to 2x LTE modem + 2x Gigabit Ethernet(1 PD) + 2 or 4 serial ports that supports advanced function of VPN, Load-balancing**(Basic & Full Package), Protocol gateway(Modbus,DNP3**), Storage** 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, TMR-5002 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-3002-1L provides redundant link between two service providers.

Both GPS and Russian GLONASS systems are supported.

*Load Balancing** with 8 mechanism for multi-WANs (premium license pack)*

IMR-3002 supports Load Balancing** for LTE/WAN (client mode) connections. There are eight schemes for Load Balancing** function:

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

| Standard | Fixed | Manually route by traffic type through fixed WAN link. |
|---|---|---|
| Basic Package | Failover | Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not failback 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. |
| Full Package (incl. basic package) | Sticky Session* | Binding all connections in an application session to particular WAN link to ensure all connections in the session are routed to the same WAN link , that is suitable for security services like online payment etc. |
| | Smallest Load* | Routes connections through the WAN link with highest free |

| | | bandwidth ratio.<br>The ratio = 1 - (traffic load / the capability of a WAN link).<br>The traffic load could be defined by downstream, upstream or total traffic |
|---|---|---|
| | Fastest* | Routes connections through the WAN link with lowest latency time. |

### 2 or 4 port serial connection, Modbus / DNP3** gateway

It builds in 2 or 4 port serial connection for RS232, RS422, 485 in which RS422/485 has 2.5KV isolation protection.

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

It also can support optional DNP3** gateway over serial ports

### VPN and firewall

Besides traditional VPN peer to peer tunneling, IMR-3002 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, Open VPN, L2TP, IPsec and PPTP** for various VPN applications.

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

### DIDO** for alarm & email** notice; Event log; Remote Web/SMS** control

2 sets of optional 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 IMR-3002 will immediately send email** and trap.

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

### Wide range input voltage from 9V-60VDC; Built-in 2 port Gigabit Ethernet incl. 1PD port

The IMR-3002 is able to work from 9VDC to 60VDC that is particular good for vehicle, rail train, depot etc. application.

Two port Gigabit Ethernet including 1 PD port can be supported as 1LAN+1WAN or 2LAN 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.

### Cloud/Host based InstaView**/InstaAir** software for router/fleet management and monitoring

Lantech InstaView** can offer fixed location router central management, configuration, and monitoring via secured Cloud or Host server. InstaAir** can offer fleet router management including the GPS tracking, signal strength, remote configure/upgrade, monitoring/alerting and report function

### Optional USB to microSD** for storage backup or multimedia resources

The optional internal USB to microSD** can have data backup or pre-store the multimedia resources for content application. User can designate the route via load-balancing** scheme to upload/download the data per request.

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

The IMR-3002 is designed to meet with outdoor network environment with IP 30 housing. It passed serious tests under extensive Industrial EMI and environmental vibration and shocks standards. With CE & FCC radio certification for LTE and E-marking** certificate, the IMR-3002 is best for outdoor community, vehicle, process control automation etc.
For more usage flexibilities, IMR-3002 supports wide operating temperature from -20°C to 75°C or -40°C to 75°C(-E)

## FEATURES & BENEFITS

- Built-in two Gigabit ports incl. 1 PD port and 1LAN+1WAN or 2LAN
- HTTP/HTTPS/Telnet/SSH & Administration access
- Support IPv6** & IPv4 protocol
- Support Multi-Site VPN for mesh tunneling as well as Open VPN, L2TP, IPsec and PPTP** fro secured network connection
- The built-in Layer-4 firewall includes DoS**, IP address filter / Mac address filter* / TCP/UDP port number
- Support SNMP*v1/v2c/v3
- NAT/DMZ
- 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 8 mechanism between multiple WANs

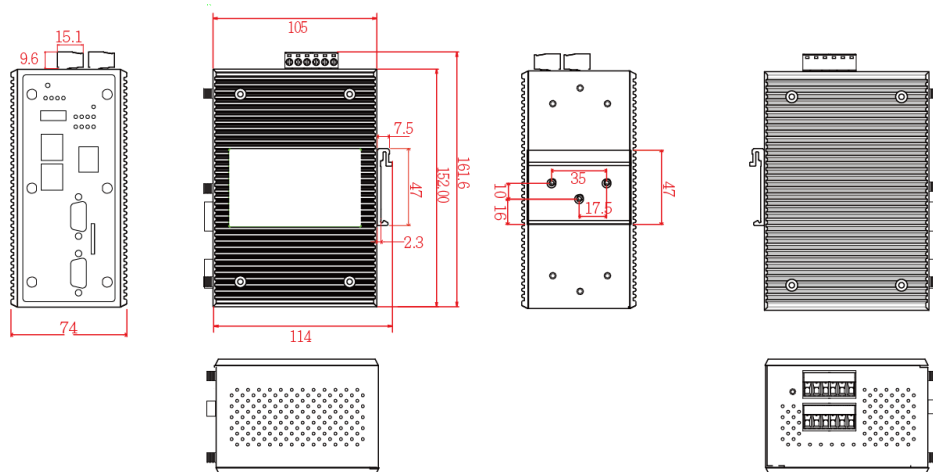| Pack | Algorithm | Description |
|---|---|---|
| Standard | Fixed | Manually route by traffic type through fixed WAN link. |
| Basic Package | Failover | Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not |

| | | |
|---|---|---|
| | | failback 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. |
| Full Package (incl. basic package) | Sticky Session* | Binding all connections in an application session to particular WAN link to ensure all connections in the session are routed to the same WAN link , that is suitable for security services like online payment etc. |
| | Smallest Load* | Routes connections through the WAN link with highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic |
| | Fastest* | Routes connections through the WAN link with lowest latency time. |

- ■ **Built-in 2 or 4 x serial ports(RS232/RS422/485)**
- ■ **Serial port with 2.5KV isolation on RS422/485**

- ■ **Supports optional 2DI / 2DO(Digital Input / Output)**
- ■ **Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP**
- ■ **Optional DNP3 over Ethernet gateway on serial ports**
- ■ **Event alerting by Syslog, SNMP Trap, Email**, SMS** text, Relay ; Permanent local log rotation / Maxi 1K records**
- ■ **Remote Web/SMS** 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 & TX/RX rate display**
- ■ **Firmware upgradeable through TFTP/FTP/HTTP**
- ■ **Configuration backup and restoration**
    - ● *Supports text configuration file for system quick installation*
    - ● *USB port to upload/download configuration by USB dongle*
    - ● *InstaView/AIR** for centralized configuration deployment, backup & upgrade*
- ■ **Cloud/Host based InstaView/AIR** for fixed/fleet router management/configuration/monitoring**
- ■ **IP 30 housing for industrial environment**
- ■ **DIN-Rail and Wall-mount** installation**
- ■ **Operation temperature -20~70°C or -40~70°C(-E)**
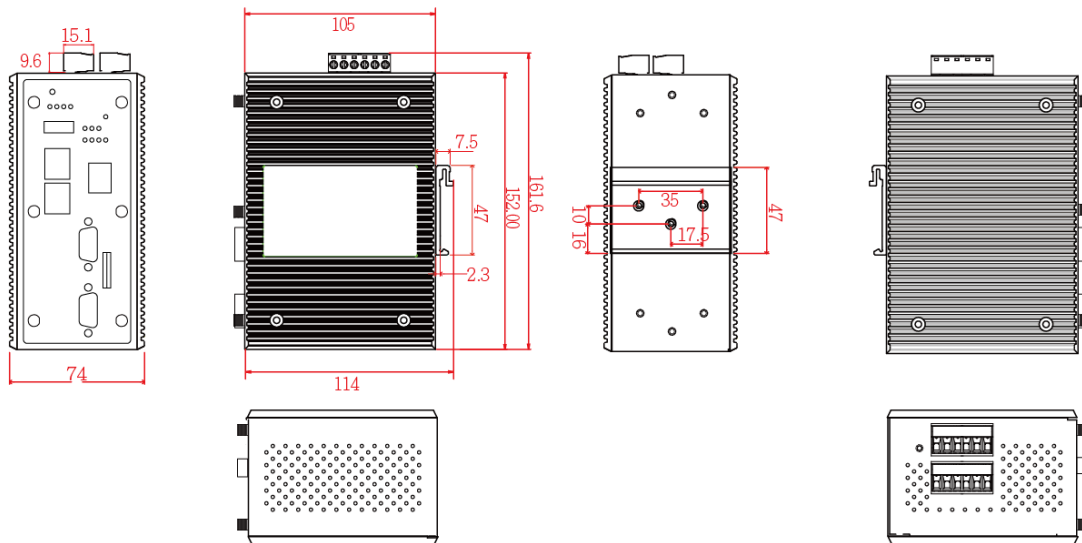- ■ **Wide range input voltage from 9V-60V**

## DIMENSIONS (unit=mm)

**1L-2SA model**

**2L-1AC-2SA model**



# SPECIFICATION

| | |
|---|---|
| Location Solutions | GPS, Glonass (EU/Americas) |
| | GPS, Glonass, Beidou, Galileo (APAC model only) |
| Band Options | **APAC & Australia (APAC model)** |
| | **LTE:** |
| | 2100/1800/850/2600/900/850/850/1500/700/2600/1900/2300/2500 MHz |
| | (B1/B3/B5/B7/B8/B18/B19/B21/B28/B38/B39/B40/B41) |
| | **EUNA & USA model** |
| | **LTE:** |
| | 2100/1800/2600/900/800 MHz |
| | (B1/B2/B3/B4/B5/B7/B12/B13/B20/B25/B26/B29/B30/B41) |
| | **WorldWide (WW model)** |
| | **LTE:** |
| | 2100/1900/1800/1700/850/2600/900/1800/700/700/850/850/800/850/700/2300/1500/2500/3500/3700/5200/3600/1700 |
| | (B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B18/B19/B20/B26/B28/B29/B30/B32/B41/B42/B43/B46/B48/B66) |
| Data Rates – LTE | **APAC & Australia (APAC model)** |
| | **Downlink (Cat 6):** |
| | FDD: 300 Mbps |
| | TDD: 222 Mbps |
| | **Uplink (Cat 6):** |
| | FDD: 50 Mbps |
| | TDD: 26 Mbps |
| | **Americas (US model) / EMEA (EU model)** |
| | **Downlink (Category 3):** |
| | 100 Mbps (20 MHz bandwidth) |
| | 50 Mbps (10 MHz bandwidth) |
| | **Uplink (Category 3):** |
| | 50 Mbps (20 MHz bandwidth) |
| | 25 Mbps (10 MHz bandwidth) |

## Software

| | |
|---|---|
| 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(DoS**; IP address filter / Mac address filter* / TCP/UDP port name},VRRP**, |

| | |
|---|---|
| | DDNS* |
| Management | SNMP*v1,v2c,v3/ Web/Telnet/CLI |
| Load Balancing** | 8 schemes for multiple WAN |
| Fixed | Manually route by traffic type through fixed WAN link. |

### Basic Package**

| | |
|---|---|
| Failover | Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. |
| Priority | Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. |
| 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. |

### Full Package incl. basic package**

| | |
|---|---|
| Sticky Session* | Binding all connections in an application session to particular WAN link to ensure all connections in the session are routed to the same WAN link , that is suitable for security services like online payment etc. |
| Smallest Load* | Routes connections through the WAN link with highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic |
| Fastest* | Routes connections through the WAN link with lowest latency time. |
| Security | SSH/SSL/HTTPS |
| Timer | Built-in Real Time Clock to keep track of time always(RTC) |
| Discovery | IEEE 802.1ab Link Layer Discovery Protocol (LLDP) |
| SNMP trap | Device cold / warm start Port link up / link down DI / DO high / low** |
| Graphic signal display | Graphic LTE signal strength & TX / RX rate display |
| Remote Web/SMS** control | To reboot or get status of router by WebUI or SMS** |
| Maintenance | Firmware upgradeable through TFTP/FTP/HTTP |
| Configuration backup & restore | Supports text configuration file for quick system installation USB port to upload/download configuration by USB dongle** InstaView/AIR** for mass configuration/upgrade |

## Physical Ports & System

| | |
|---|---|
| Connectors | 10/100/1000T: 2x ports RJ 45 with Auto MDI/MDI-X function<br>USB x 1<br>RS-232 connector: 1 x RJ 45<br>Serial connector : 2 or 4 DB9<br>SIM card slots : 4(2L) or 2(1L)<br>SMA connector : 6 female<br>Power & P-Fail connector: 1 x 6-pole terminal block<br>DIDO **: 1 x 5-pole terminal block |
| Serial Baud Rate | 1000Kbps high data rate,250kbps normal for RS232 ; 20Mbps high data rate,250kbps normal for RS422/485 |
| Serial Data Bits | 5, 6, 7, 8 |
| Serial Parity | odd, even, none, mark, space |
| Serial Stop Bits | 1, 1.5, 2 |
| RS-232 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND |
| RS-422 | Tx+,Tx-, Rx+, Rx-,GND |
| RS-485 (2-wire) | Data+, Data-,GND |
| Micro SD | 128G or 256G(MSD model) |
| Isolation protection | RS422/485 2.5KV isolation; 8KV contact & 15KV air<br>RS232 8KV contact and 15KV air ESD<br>DIDO** 3KV isolation<br>Input power 1.5KVA isolation |

## LED Indicators

| | |
|---|---|
| Power & System indicator | Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red) , Ring Master(Green), Storage(Green), Serial1/Serial2/Serial3/Serial4(Green) |
| 10/100/1000Base-T (X) port indicator | Link/Activity (Green), Speed (Yellow) |
| SIM | Green for Link/Act |
| GPS | Green for Link/Act |
| WLAN LEDs | Link /ACT : Green |
| DI/DO** | 2 Digital Input (DI) : |

| | |
|---|---|
| | Level 0: -30~2V / Level 1: 10~30V<br>Max. input current:8mA<br>2 Digital Output(DO): Open collector to 40 VDC, 200mA |
| 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 inputs, 9V~60VDC |
| Power consumption (Typ.) | 20 Watts |

## Physical Characteristic

| | |
|---|---|
| Enclosure | IP 30 aluminum case |
| Dimension | 74 (W) x 114 (D) x 152 (H) mm |
| Weight | 900g |

## Environmental

| | |
|---|---|
| Storage Temperature | -40°C ~ 85°C (-40°F ~ 185°F) |
| Operating Temperature | -20°C ~75°C (-4°F ~ 167°F)<br>-40°C ~75°C (-40°F ~ 167°F)-E model |
| Operating Humidity | 5% to 95% Non-condensing |

## Regulatory approvals

| | |
|---|---|
| EMC | FCC* Part 15 Class A, EN55032* |
| EMS | EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 |
| E-marking** | E13** |
| MTBF | NA |
| Warranty | 5 years |

*Future Release

**Optional

## ORDERING INFOMATION

For -40~75C operational temperature model, the model name will add -E

■ **IMR-3002-2L-2S-EUNA…..……….....…….........P/N: 8611-101**
Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C

■ **IMR-3002-2L-2S-WW…..……….....……….........P/N: 8611-102**
Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C

■ **IMR-3002-2L-2S-APAC…..……….....……….......P/N: 8611-103**
Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C

■ **IMR-3002-2L-2SA-EUNA…..……….....……….....P/N: 8611-104**
Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C

■ **IMR-3002-2L-2SA-WW…..……….....……….....P/N: 8611-105**
Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C

■ **IMR-3002-2L-2SA-APAC…..……….....……….....P/N: 8611-106**
Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C

■ **IMR-3002-1L-2S-EUNA…..……….....……….......P/N: 8611-107**
Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C

■ **IMR-3002-1L-2S-WW…..……….....……….........P/N: 8611-108**
Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C

■ **IMR-3002-1L-2S-APAC…..……….....……….......P/N: 8611-109**
Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C

■ **IMR-3002-1L-2SA-EUNA…..……….....…….…....P/N: 8611-1101**
Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C

■ **IMR-3002-1L-2SA-WW…..……….....…….…....P/N: 8611-1102**
Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C

■ **IMR-3002-1L-2SA-APAC …..……….....…….…....P/N: 8611-1103**
Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit

Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C

- **IMR-3002-2L-4S-EUNA…..……………..………........P/N: 8611-114**
  Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C
- **IMR-3002-2L-4S-WW…..………….…..…….….........P/N: 8611-115**
  Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C
- **IMR-3002-2L-4S-APAC…..……………..………........P/N: 8611-116**
  Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C
- **IMR-3002-2L-4SA-EUNA…..……………..………........P/N: 8611-117**
  Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C
- **IMR-3002-2L-4SA-WW…..……………..………........P/N: 8611-118**
  Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C
- **IMR-3002-2L-4SA-APAC…..……………..………........P/N: 8611-119**
  Industrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C
- **IMR-3002-1L-4S-EUNA…..……………..…………........P/N: 8611-121**
  Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C
- **IMR-3002-1L-4S-WW…..…………....…..………….......P/N: 8611-122**
  Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C
- **IMR-3002-1L-4S-APAC…..……………..…………........P/N: 8611-123**
  Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C
- **IMR-3002-1L-4SA-EUNA…..……………..…………....P/N: 8611-124**
  Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C
- **IMR-3002-1L-4SA-WW…..……………..…………......P/N: 8611-125**
  Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C
- **IMR-3002-1L-4SA-APAC…..…………...…..…………......P/N: 8611-126**
  Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C

**Built-in MSD for Router 3000 Series**

- **Built-in USB to MicroSD 128GB Module………...…..………....P/N:8850-210**
- **Built-in USB to MicroSD 256GB Module………....…..……...P/N:8850-213**

**Software License**

- **LOAD BALANCING Basic Package……...……...........................P/N: 9000-101**

- **LOAD BALANCING Full Package………...….…...........................P/N: 9000-102**

- **DNP3 GATEWAY…..………….…...…..………….…...........................P/N: 9000-106**

## OPTIONAL ACCESSORIES

**LTE Antenna**

- **ANT11000041**     791-960/1710~2170/2500~2700MHZ, SMA plug, EU

- **ANT11000042**     704-960/1710~2170MHZ, SMA plug, US