

IPMR-3004

Industrial Multifunction VPN Router w/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 mobility for 3G/4G LTE Link & GPS(2L model/4 SIMs)
- Support LTE Cat 6 (APAC & EUNA models) or Cat 12/9/13 (WW model)
- Built-in 4 Gigabit PoE at/af Switch with budget 80W @12V/24V/48V
- VPN router for Multi-site VPN, OpenVPN, L2TP over IPsec, IPsec, PPTP**, L2 over GRE , IPGRE
- Load Balancing built-in 5 mechanism
- Optional EMMC Flash storage on-board**
- Support NAT and Firewall
- Support Modbus or gateway on serial ports
- Support 2 RS422/RS485 ports with 2.5KV isolation or 2x RS232 ports
- Input voltage selection 9~56VDC (24V model)
- ITxPT compliant w/ ignition function**
- Environmental monitoring for router inside info with voltage, current temperature and total PoE load; 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*



OVERVIEW

Lantech IPMR-3004 series is a next generation industrial multi-function VPN router w/up to 2x LTE modem + 4x Gigabit Ethernet PoE switch + 2WANs + 2 serial ports that supports advanced function of VPN, Load-Balancing (Basic & Full Package**) EMMC Flash Storage**, Protocol gateway (Modbus), Storage**, 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, IPMR-3004 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, IPMR-3004 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.

Load Balancing with 8 mechanisms for multi-WANs (premium license)

IPMR-3004 supports Load Balancing for LTE connections.

There are eight schemes for Load Balancing function:

| Pack | Algorithm | Description |
|---------------|----------------------|---|
| Basic Package | 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 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. |

2 port serial connection, Modbus gateway

It builds in 2 port serial connection for RS232, RS422, RS485 in which RS422/RS485 has 2.5KV isolation protection.

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, IPMR-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, PPTP**, 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.

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 IPMR-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; Built-in 4 port

PoE at/af switch with 80W@12V /24V/48V

The IPMR-3004 is able to work from 9VDC to 56VDC for 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 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 LTE signal strength shows connection status at a glance

Ignition Sensing

Ignition sense allows you to delay power off your Ethernet switch with a designated time delay.

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 configuration through USB dongle for router replacement

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

Editable login page of captive portal

The IPMR-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 IPMR-3004 is designed to meet with industrial 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 IPMR-3004 is best for outdoor community, vehicle, process control automation etc. For more usage flexibilities, IPMR-3004 supports wide operating temperature from -40°C to 65°C.

FEATURES & BENEFITS

- Built-in 4 Gigabit PoE switch + 2 WAN port with 80W@12V /80W@24V&48V PoE budget
- 6 SMA type connectors for LTE, GPS
- 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

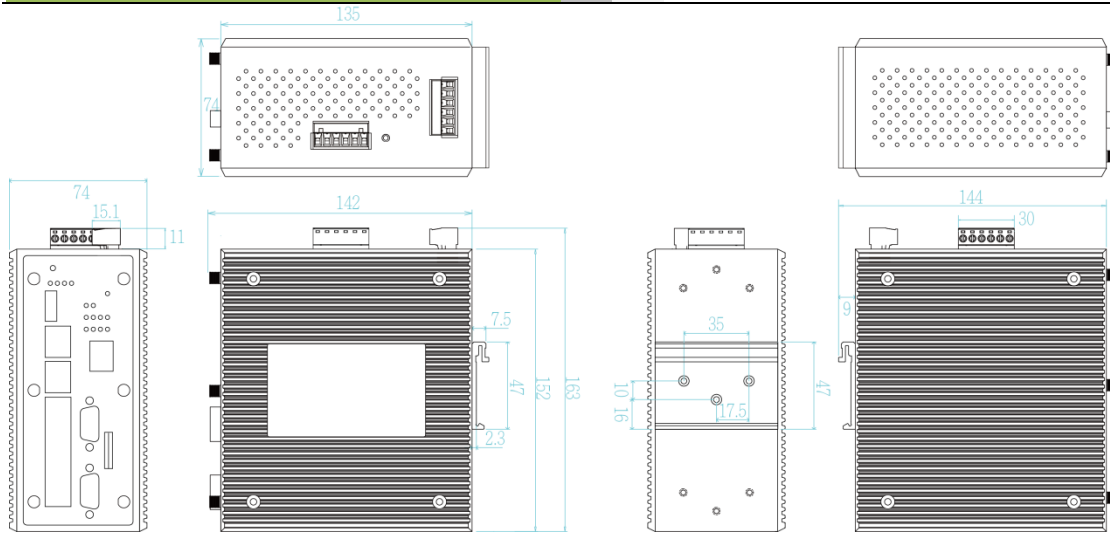
- Open VPN, L2TP over IPsec, IPsec, PPTP**, L2 over GRE , IPGRE and NAT for secured network connection
- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number
- NAT/DMZ/Port Forwarding
- EMMC-FLASH storage**
- Support SNMP* v1/v2c/v3
- Dual concurrent 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 8 mechanism between multiple WANs

| Pack | Algorithm | Description |
|---|----------------------|---|
| Basic Package | 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 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 x serial ports(RS232/RS422/485)
- Serial port with 2.5KV isolation on RS422/485
- 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 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/FTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download configuration by USB dongle
- Reset button for factory default mode
- IP 30 housing for industrial environment
- DIN-Rail and Wall-mount** installation
- ITxPT compliant w/ ignition function**
- Operation temperature -40~65°C

DIMENSIONS (unit=mm)



SPECIFICATION

| | | | | |
|--------------------|--|--|--|--|
| Location Solutions | GPS, Glonass (EU/Americas) GPS, Glonass, Beidou, Galileo (APAC model only) | Fixed | Manually route by traffic type through fixed WAN link. | |
| Band Options | 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※ | Failover | Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. | |
| | 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 | Priority | Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. | |
| | 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※ | Weighted Round-Robin | Evenly distribute the traffic over all working WAN links in circular order according to the specified weights | |
| Data Rates – LTE | Asia-Pacific (APAC model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps | Custom Route | Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address. | |
| | Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps | Full Package** incl. Basic package | | |
| | World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps | 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. | |
| Software | IPv6/4 | Present | 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 |
| | VPN | Multi-site VPN, Open VPN, PPTP**, L2TP over IPSec, IPSec, L2 over GRE, IPGRE and NAT | Fastest* | Routes connections through the WAN link with lowest latency time. |
| | Firewall | DDoS, IP address filter / Mac address filter / TCP/UDP port number. | Login Security | Supports IEEE802.1x Authentication/RADIUS |
| | Load Balancing | 8 schemes for multiple WAN | Access Security | HTTP/HTTPS/Telnet/SSH & Administration; SNMP* v1/v2c/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3) |
| | Basic Package | | 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* |
| | | | Protocol Gateway | Modbus on serial ports |
| | | | Management | SNMP v1, v2c, v3/ Web/Telnet/CLI |
| | | | Environmental Monitoring | System status for input voltage, current, ambient temperature to be shown in GUI and sent alerting if any abnormal status |
| | | | Graphic signal display | Graphic LTE signal strength |
| | | | 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 | |

| | | | | |
|-------------------------------------|--|--------------------------------|--|---|
| Remote Web control | To reboot or get status of router by Web UI | Fault contact | Relay | Relay output to carry capacity of 1A at 24VDC |
| Maintenance | Firmware upgradeable through TFTP/FTP/HTTP | Power | Input power | Dual DC input, 9~56VDC (24V model) |
| Configuration backup & restore | Supports text configuration file for system quick installation USB port to upload/download configuration by USB dongle | PoE Budget | 80W @ 12V/24V/48V | |
| | | Power consumption (Typ.) | 30.5W | |
| Physical Ports & System | | Physical Characteristic | | |
| Connectors | 10/100/1000T: 6x ports RJ 45 with 2 WAN ports and 4 PoE ports USB x 1 RS-232 connector: 1 x RJ 45 Serial connector : 2 DB9 SIM card slots : 4(2L) or 2(1L) 2L model SMA connector for LTE: 4 (female) SMA connector for GPS: 2 (female) 1L model SMA connector for LTE: 2 (female) SMA connector for GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO: 1 x 5-pole terminal block | Enclosure | IP 30 Metal case | |
| Serial Baud Rate | 1000Kbps high data rate,250kbps normal for RS232 ; 20Mbps high data rate,250kbps normal for RS422/485 | Dimension | 74 (W) x 142 (D) x 152 (H) mm | |
| Serial Data Bits | 5, 6, 7, 8 | Weight | 900g | |
| Serial Parity | odd, even, none, mark, space | Environmental | | |
| Serial Stop Bits | 1, 1.5, 2 | Storage Temperature | -40°C ~ 85°C (-40°F ~ 185°F) | |
| RS-232 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND | Operating Temperature | -40°C ~ 65°C (-4°F ~ 149°F) | |
| RS-422 | Tx+, Tx-, Rx+, Rx-, GND | Operating Humidity | 5% to 95% Non-condensing | |
| RS-485 (2-wire) | Data+, Data-, GND | Regulatory approvals | | |
| Isolation protection | RS422/485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation | Safety | EN 62368* | |
| EMMC Storage** | 8/16/32 GB | EMC | FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 | |
| 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 | 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) | |
| LED Indicators | | Radio Frequency | EN 301 489-1, EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 908-1**, EN 303 413, EN 62311 | |
| System & Power | Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red) , Ring Master(Green), Storage(Green), Serial1/Serial2(Green) ,Ready(Green) | Vehicle certificate | E13** ITxPT compliant** | |
| 10/100/1000Base-T(X) port indicator | Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off), PoE (Green) | MTBF | NA | |
| SIM | Green for Link/Act | Warranty | 5 years | |
| GPS | Green for Link/Act | | | |
| Fault | Red: Ethernet link down or power down | | | |

*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

ORDERING INFORMATION

- **IPMR-3004-2L-2S-24V-EUNA.....P/N: 8664-011**
Industrial Dual LTE (Quad SIM) Load Balancing 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
- **IPMR-3004-2L-2S-24V-WW.....P/N: 8664-012**
Industrial Dual LTE (Quad SIM) Load Balancing 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
- **IPMR-3004-2L-2S-24V-APAC.....P/N: 8664-013**
Industrial Dual LTE (Quad SIM) Load Balancing 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
- **IPMR-3004-2L-2SA-24V-EUNA.....P/N: 8664-0111**
Industrial Dual LTE (Quad SIM) Load Balancing VPN Mobile Router w/2 RS422 serial ports and Giga ports incl. 4 PoE at/af ports + 2WAN ports switch; EU and US band; dual 9V~56VDC input; -40~65C
- **IPMR-3004-2L-2SA-24V-WW.....P/N: 8664-0121**
Industrial Dual LTE (Quad SIM) Load Balancing VPN Mobile Router w/2 RS422 serial ports and Giga ports incl. 4 PoE at/af ports + 2WAN ports switch; Worldwide band; dual 9V~56VDC input; -40~65C
- **IPMR-3004-2L-2SA--24V-APAC.....P/N: 8664-0131**
Industrial Dual LTE (Quad SIM) Load Balancing VPN Mobile Router w/2 RS422 serial ports and Giga ports incl. 4 PoE at/af ports + 2WAN ports switch; APAC band; dual 9V~56VDC input; -40~65C
- **IPMR-3004-2L-2SB-24V-EUNA.....P/N: 8664-0112**
Industrial Dual LTE (Quad SIM) Load Balancing VPN Mobile Router w/2 RS485 serial ports and Giga ports incl. 4 PoE at/af ports + 2WAN ports switch; EU and US band; dual 9V~56VDC input; -40~65C
- **IPMR-3004-2L-2SB-24V-WW.....P/N: 8664-0122**

- Industrial Dual LTE (Quad SIM) Load Balancing VPN Mobile Router w/2 RS485 serial ports and Giga ports incl. 4 PoE at/af ports + 2WAN ports switch; Worldwide band; dual 9V~56VDC input; -40~65C
 - **IPMR-3004-2L-2SB--24V-APAC.....P/N: 8664-0132**
- Industrial Dual LTE (Quad SIM) Load Balancing VPN Mobile Router w/2 RS485 serial ports and Giga ports incl. 4 PoE at/af ports + 2WAN ports switch; APAC band; dual 9V~56VDC input; -40~65C
 - **IPMR-3004-1L-2S-24V-EUNA.....P/N: 8664-021**
- Industrial One LTE (Dual SIM) Load Balancing 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
 - **IPMR-3004-1L-2S-24V-WW.....P/N: 8664-022**
- Industrial One LTE (Dual SIM) Load Balancing 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
 - **IPMR-3004-1L-2S-24V-APAC.....P/N: 8664-023**
- Industrial One LTE (Dual SIM) Load Balancing 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
 - **IPMR-3004-1L-2SA-24V-EUNA.....P/N: 8664-0211**
- Industrial One LTE (Dual SIM) Load Balancing 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
 - **IPMR-3004-1L-2SA-24V-WW.....P/N: 8664-0221**
- Industrial One LTE (Dual SIM) Load Balancing 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
 - **IPMR-3004-1L-2SA-24V-APAC.....P/N: 8664-0231**
- Industrial One LTE (Dual SIM) Load Balancing 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
 - **IPMR-3004-1L-2SB-24V-EUNA.....P/N: 8664-0212**
- Industrial One LTE (Dual SIM) Load Balancing 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
 - **IPMR-3004-1L-2SB-24V-WW.....P/N: 8664-0222**
- Industrial One LTE (Dual SIM) Load Balancing 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
 - **IPMR-3004-1L-2SB-24V-APAC.....P/N: 8664-0232**
- Industrial One LTE (Dual SIM) Load Balancing 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

EMMC Flash Storage

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

Software License

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

OPTIONAL ACCESSORIES

Management System

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

Multifunction Antenna

- **ANT11000091** 5-in-1 omnidirectional antenna – 2G/3G/4G (698-960/1710~2170/2300~2700MHz) MIMO x2 + Wi-Fi 2.4/5GHz MIMO x2 + GPS/GLONASS/GALILEO (1575.42/1602MHz) x1, 3dBi, IP67, cable length: 3M



- **ANT11000092** 6-in-1 omnidirectional antenna – 2G/3G/4G (698-960/1710~2170/2300~2700MHz) MIMO x2 + Wi-Fi 2.4/5GHz MIMO x1 + GPS/GLONASS/GALILEO/BeiDou (1561/1575.42/1602MHz) x1 + AM/FM x1 + DSRC x1, 6dBi, IP67, cable length: 30cm



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



Antenna Base

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



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