

I(P)MR-3006 Industrial Multifunction VPN Router w/up to 2 LTE 4G + 2 serial ports + 6 Gigabit Ethernet Switch(incl. 4 PoE) 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 . Built-in 6 Gigabit Ethernet switch PoE model including 4 PoE at/af w/budget 80W . 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 NAT and Firewall Support Modbus gateway on serial ports Support 2 RS422/RS485 ports or 2x RS232 ports Input voltage selection 9~56VDC (24V model) . Environmental monitoring for router inside info with voltage, current, temperature and total PoE load; LTE graphic signal strength Editable login page of captive portal for hot-spot application Optional eSIM chip enables router with versatile data plans** USB port to backup, restore the configuration file and upgrade firmware; Dual image firmware USB EMMC Protocol

OVERVIEW

Lantech I(P)MR-3006 series is a next generation industrial multi-function VPN router w/up to 2x LTE modem + + 6x Gigabit Ethernet switch incl. 4 PoE ports (PoE model) + 2 serial ports that supports advanced function of VPN, Load-Balancing, EMMC Flash Storage**, Protocol gateway(Modbus), 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, I(P)MR-3006 can allow auto-swap, failover & failback between multiple service providers for real non-stop connection. With concurrent LTE modules, it can also allocate bandwidth by " Load Balancing with 8 schemes between multiple WANs.

With one mobile LTE module (1L model), 2 SIM card slots, I(P)MR-3006 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.

Load Balancing with 5 mechanisms for multi-WANs I(P)MR-3006 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 Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.

2 port serial connection, Modbus gateway



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

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

VPN and firewall

Besides traditional VPN peer to peer tunneling, I(P)MR-3006 support latest Multi-Site VPN function that is an efficient way for mesh tunneling. The registration is under cloud service and encrypted by SSH makes the connection easy and safe.

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

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

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

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

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

2 sets of DIDO function can support additional high/low physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the router was moved or stolen. In case of events, the I(P)MR-3006 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 by Web.

Wide range input voltage from 9V-56VDC; Built-in 6 port switch (PoE model including 4 PoE with 80W budget) The I(P)MR-3006 is able to work from 9VDC to 56VDC and PoE model built-in PoE at/af with PoE budget 80W@12V

FEATURES & BENEFITS

- Built-in 6 Gigabit Ethernet switch
- PoE model incl. 4 PoE at/af for PoE budget 80W
- 6 SMA type connectors for LTE & GPS
- HTTP/HTTPS/Telnet/SSH & Administration access
- Support IPv6 & IPv4 protocol
- EMMC-FLASH storage**
- eSIM** to allow data-plan globally
- Radius Authentication, EAP-TLS, EAP-TTLS, PEAP
- 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

/80W@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 syslog, email when abnormal.

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

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.

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

The I(P)MR-3006 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 I(P)MR-3006 is best for outdoor community, vehicle, process control automation etc. For more usage flexibilities, I(P)MR-3006 supports wide operating temperature from -40°C to 65°C.

- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number
- NAT/DMZ/Port Forwarding
- Support SNMP v1/v2c/v3
- Dual concurrent LTE 4G/3G design (2L model)for autoswap/failover/failback between multiple ISPs for continuous service (four SIM card slots)
- One LTE 4G/3G w/ 2 SIM card design(1L model) for mobile redundancy
- GPS/ GLONASS (support by LTE module) connection
- Load Balancing supports 5 mechanism between multiple WANs

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

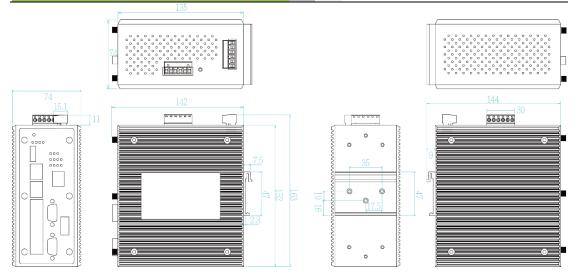
- Built-in 2 x serial ports(RS232/RS422/RS485)
- Supports 2DI / 2DO (Digital Input / Output)
- Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP for serial ports

Event alerting by Syslog, SNMP Trap, Email, Relay ; Permanent local log rotation / Maxi 1K records

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- 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/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
- Operation temperature -40~65°C

DIMENSIONS (unit=mm)



SPECIFICATION

Location Solutions Band Options	GPS, Glonass Europe & North America (EUNA model)	Firewall	DDoS, IP address filter / Mac address filter / TCP/UDP port number
	LTE = B1, B2%, B3, B4%, B5%, B7, B8, B12%, B13	Load Balancing	5 schemes for multiple WAN(client mode)
	%, B20, B25%, B26%, B29%, B30%, B41% (TDD)	Basic	
	DC-HSPA+/ HSPA+/ HSPA/ UMTS = B1, B2‰, B3, B4‰, B5‰, B8	Fixed	All traffic will be distributed to a single WAN.
Data Rates – LTE	Europe & North America (EUNA model)	Failover	Routes connections through preferred WAN link
	Downlink (Cat 6):		while others stand-by. Sequentially activating another
	FDD: 300 Mbps		link if the preferred link fails.
	TDD: 222 Mbps Uplink (Cat 6):	Priority	Select the active WAN according to priority.
	FDD: 50 Mbps	Weighted Round-	Evenly distribute the traffic over all working WAN
	TDD: 26 Mbps	Robin	links in circular order according to the specified
Software			weights
IPv6/4	Present	Custom Route	Routing through the selected WAN for each specific
VPN	Multi-site VPN, Open VPN, L2TP over IPSec, IPSec,		traffic ex: TCP/UDP port number and IP address.
	L2 over GRE, IPGRE and NAT	Security	SSH/SSL/HTTPS

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Industrial Multifunction Router + (PoE) Switch



	Ownerstal IEEE000 As Authorities for IDADII IO		0 District Output (DO): On an adult stants 40 V/DO
Login Security	Supports IEEE802.1x Authentication/RADIUS		2 Digital Output(DO): Open collector to 40 VDC, 200mA
Access Security	HTTP/HTTPS/Telnet/SSH & Administration; SNMP		
	v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3)	LED Indicat	
Protocol	PPPoE Client, DHCP server/client, Adjustable MTU,	Power & System	Per unit: Power 1 (Green), Power 2 (Green), P-Fail
FIOLOCOI	Pert forwarding (NAPT), DMZ; NAT, SNTP,	indicator	(Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green)
	Firewall(Firewall(DDoS; IP address filter / Mac	10/100/1000Base-	Link/Activity (Green), Speed (1000T: Yellow;
	address filter / TCP/UDP port name),VRRP, DDNS	T(X) port indicator	10/100TX: off), PoE (Green, PoE model)
Routing	Static route / RIPv2 / OSPF / BGP / EIGRP	SIM	Green for Link/Act
Protocol Gateway	Modbus on serial ports	GPS	Green for Link/Act
Management	SNMP v1,v2c,v3/ Web/Telnet/CLI	Fault	Red: Ethernet link down or power down
Environmental	System status for input voltage, current, ambient		
	temperature to be shown in GUI and sent alerting if	Fault conta	
Monitoring		Relay	Relay output to carry capacity of 1A at 24VDC
	any abnormal status	Power	
Graphic signal	Graphic LTE signal strength	Input power	Dual DC input, 9~56VDC (24V model)
display		PoE Budget (PoE	80W@12V /80W@24V&48V
Timer	Built-in Real Time Clock to keep track of time	model)	
	always(RTC)	Power consumption	30.5 Watts
Discovery	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	(Typ.)	and stanlation
SNMP trap	Device cold / warm start		aracteristic
	Port link up / link down	Enclosure	IP 30 Metal case
	DI/DO high / low	Dimension	74 (W) x 142 (D) x 152 (H) mm
Remote Web	To reboot router by WebUI	Weight	900g
control		Environmer	ntal
Maintenance	Firmware upgradeable through TFTP/HTTP	Storage	-40°C ~ 85°C (-40°F ~ 185°F)
Configuration	Supports text configuration file for system quick	Temperature	
backup & restore	installation	Operating	-40°C ~ 65°C (-40°F ~ 149°F)
	USB port to upload/download configuration by USB	Temperature	
	dongle	Operating Humidity	5% to 95% Non-condensing
Discustered Dec			5
Physical Po	rts & System	Regulatory	5
Physical Po Connectors	rts & System 10/100/1000T: 6x ports RJ 45 (PoE model incl 4 PoE		5
	10/100/1000T: 6x ports RJ 45 (PoE model incl 4 PoE ports)	Regulatory	approvals
	10/100/1000T: 6x ports RJ 45 (PoE model incl 4 PoE ports) USB x 1	Regulatory Safety	approvals EN 62368
	10/100/1000T: 6x ports RJ 45 (PoE model incl 4 PoE ports) USB x 1 RS-232 connector: 1 x RJ 45	Regulatory Safety	approvals EN 62368 FCC Part 15B Class A,
	10/100/1000T: 6x ports RJ 45 (PoE model incl 4 PoE ports) USB x 1 RS-232 connector: 1 x RJ 45 Serial connector : 2 DB9	Regulatory Safety	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015,
	10/100/1000T: 6x ports RJ 45 (PoE model incl 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)	Regulatory Safety EMC	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010
	10/100/1000T: 6x ports RJ 45 (PoE model incl 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	Regulatory Safety	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-6-4
	10/100/1000T: 6x ports RJ 45 (PoE model incl 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)	Regulatory Safety EMC	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS),
	10/100/1000T: 6x ports RJ 45 (PoE model incl 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)	Regulatory Safety EMC	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT),
	10/100/1000T: 6x ports RJ 45 (PoE model incl 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	Regulatory Safety EMC	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge),
	10/100/1000T: 6x ports RJ 45 (PoE model incl 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)	Regulatory Safety EMC	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-2, 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),
	10/100/1000T: 6x ports RJ 45 (PoE model incl 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)	Regulatory Safety EMC EMS	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-4 (EFT), IEC 61000-4-8 (Surge), IEC 61000-4-8 (PFMF)
	10/100/1000T: 6x ports RJ 45 (PoE model incl 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	Regulatory Safety EMC	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 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) EN 301 489-1,
Connectors	10/100/1000T: 6x ports RJ 45 (PoE model incl 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	Regulatory Safety EMC EMS	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-5 (Surge), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF) EN 301 489-17,
Connectors Serial Baud Rate	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 1 (female) SMA connector for GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO : 1 x 5-pole terminal block	Regulatory Safety EMC EMS	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55022: 2016, IEC 61000-6-2, IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-8 (PFMF) EN 301 489-1, EN 301 489-19,
Connectors Serial Baud Rate Serial Data Bits	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 1 (female) SMA connector for GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8	Regulatory Safety EMC EMS	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55022: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-17, EN 301 489-19, EN 301 489-52
Connectors Serial Baud Rate Serial Data Bits Serial Parity	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO: 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space	Regulatory Safety EMC EMS	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 908-1 [*] ,
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Stop Bits	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2	Regulatory Safety EMC EMS	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-6 (SUrge), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-17, EN 301 489-52 EN 301 908-1 ﷺ, EN 303 413,
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 DID0 : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	Regulatory Safety EMC EMS Radio Frequency	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-4-2 (ESD), IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-5 (Surge), IEC 61000-4-6 (CS), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 908-11%, EN 303 413, EN 62311
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-422	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND	Regulatory Safety EMC EMS Radio Frequency Vehicle certificate	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55022: 2015, EN 55022: 2010 IEC 61000-6-2, IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-8 (Surge), IEC 61000-4-8 (PMF) EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 498-13%, EN 303 413, EN 62311 E13**
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-422 RS-422 RS-485 (2-wire)	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 15, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND	Regulatory Safety EMC EMS Radio Frequency Vehicle certificate MTBF	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-2, IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-4 (EFT), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-17, EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 490-52 EN 303 413, EN 62311 E13** NA
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-422	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DID0 : 1 x 5-pole terminal block DID0: 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+, Tx-, Rx+, Rx-,GND Data+, Data-,GND Input power to I/O: 1.5KV isolation	Regulatory Safety EMC EMS Radio Frequency Vehicle certificate	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 489-52 EN 301 489-52 EN 303 413, EN 62311 E13** NA 5 years
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-422 RS-422 RS-485 (2-wire)	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+, Tx-, Rx+, Rx-,GND Data+, Data-,GND Input power to I/O: 1.5KV isolation Input power to Ethernet 1.5KV isolation	Regulatory Safety EMC EMS Radio Frequency Vehicle certificate MTBF	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-5 (CS), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-17, EN 301 489-19, EN 301 489-52 EN
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-422 RS-485 (2-wire) Isolation protection	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DID0 : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+, Tx-, Rx+, Rx-, GND Data+, Data-,GND Input power to I/O: 1.5KV isolation Input power to PGE port 1.5KV isolation Input power to PGE port 1.5KV isolation (PoE model)	Regulatory Safety EMC EMS Radio Frequency Vehicle certificate MTBF Warranty	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55022: 2015, EN 55022: 2010 IEC 61000-6-2, IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-8 (Surge), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 498-13, EN 62311 E13** NA 5 years *Future Release *Optional
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Parity Serial Stop Bits RS-232 RS-422 RS-485 (2-wire) Isolation protection EMMC Storage**	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 2 (female) 9. MA connector for GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DID0 : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1, 5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND Input power to I/O: 1.5KV isolation Input power to Ethermet 1.5KV isolation Input power to PoE port 1.5KV isolation (PoE model) 8/16/32 GB	Regulatory Safety EMC EMS Radio Frequency Vehicle certificate MTBF Warranty	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 489-52 EN 301 908-1:%, EN 303 413, EN 62311 E13** NA 5 years "Future Release "Optional d test of the following bands are not listed in EN 301 908-1 report
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Stop Bits RS-232 RS-422 RS-485 (2-wire) Isolation protection	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 CTE: 4 (female) SMA connector for GPS: 2 (female) 1L model SMA connector for GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO : 1 x 5-pole terminal block DIDO : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND Input power to I/O: 1.5KV isolation Input power to PoE port 1.5KV isolation Input power to PoE port 1.5KV isolation [Not power to PoE port 1.5KV isolation (PoE model)] 8/16/32 CB	Regulatory Safety EMC EMS Radio Frequency Vehicle certificate MTBF Warranty	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55022: 2015, EN 55022: 2010 IEC 61000-6-2, IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-8 (Surge), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-19, EN 301 489-52 EN 301 498-13, EN 62311 E13** NA 5 years *Future Release *Optional
Connectors Serial Baud Rate Serial Data Bits Serial Parity Serial Parity Serial Stop Bits RS-232 RS-422 RS-485 (2-wire) Isolation protection EMMC Storage**	10/100/1000T: 6x ports RJ 45 (PoE model incl 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 GPS: 2 (female) 9. MA connector for GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DID0 : 1 x 5-pole terminal block 1000Kbps for RS232 ; 12Mbps for RS422/RS485 5, 6, 7, 8 odd, even, none, mark, space 1, 1, 5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND Input power to I/O: 1.5KV isolation Input power to Ethermet 1.5KV isolation Input power to PoE port 1.5KV isolation (PoE model) 8/16/32 GB	Regulatory Safety EMC EMS Radio Frequency Vehicle certificate MTBF Warranty	approvals EN 62368 FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4 IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-5 (CS), IEC 61000-4-8 (PFMF) EN 301 489-17, EN 301 489-17, EN 301 489-19, EN 301 489-52 EN

ORDERING INFORMATION

- IPMR-3006-1L-2SA-24V-EUNA......P/N: 8624-0051

Datasheet Version 1.41 www.lantechcom.tw | info@lantechcom.tw RP-001-26 A0

Industrial Multifunction Router + (PoE) Switch



Industrial One LTE (Dual SIM) Load Balancing VPN Mobile Router w/2 RS422 serial ports and 6 Giga Port Switch incl.4 PoE; EU and US band; dual input 9~56VDC; -40~65C

- IPMR-3006-1L-2SB-24V-EUNA......P/N: 8624-0052
 Industrial One LTE (Dual SIM) Load Balancing VPN Mobile Router w/2 RS485 serial ports and 6 Giga Port Switch incl.4 PoE; EU and US band; dual input 9~56VDC; -40~65C
- IMR-3006-2L-2SA-24V-EUNA......P/N:8621-0111
 Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/2 RS422 serial ports and 6 Giga Port managed switch; EU and US band; dual input 9V~56VDC; -40~65C
- IMR-3006-2L-2SB-24V-EUNA......P/N:8621-0112
 Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router w/2 RS485 serial ports and 6 Giga Port managed switch; EU and US band; dual input 9V~56VDC; -40~65C
- IMR-3006-1L-2S-24V-EUNA......P/N: 8621-021
 Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/2 RS232 serial ports and 6 Giga Port managed switch; EU and US band; dual input 9V~56VDC; -40~65C
- IMR-3006-1L-2SA-24V-EUNA......P/N: 8621-0211
 Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/2 RS422 serial ports and 6 Giga Port managed switch; EU and US band ; dual input 9V~56VDC; -40~65C
- IMR-3006-1L-2SB-24V-EUNA......P/N: 8621-0212
 Industrial One LTE (Dual SIM) Load Balancing Multifunction Router w/2 RS485 serial ports and 6 Giga Port managed switch; EU and US band ; dual input 9V~56VDC; -40~65C

EMMC Flash Storage

- BG.....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



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



LTE hinge rotatable antenna, 698-960MHz, 1710-2690MHz, Diameter 10mm, Length 108mm, SMA Connector

Antenna Base



ADA11000053

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



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