

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**, L2 over GRE
- Optional EMMC Flash storage on-board**
- Load Balancing** support 8 mechanism
- Support NAT and Firewall
- Support Modbus 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

 ITE graphic signal strength & TX/RX rate display

 4S model

 2S model
- LTE graphic signal strength & TX/RX rate display
- 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 IMR-3002 series is a next generation industrial multifunction 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), 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, IMR-3002 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 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 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.

Datasheet Version 5.5



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 or 4 port serial connection, Modbus 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.

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 L2 over GRE, NAT, 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

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 L2 over GRE, 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
- EMMC-FLASH storage**
- 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 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



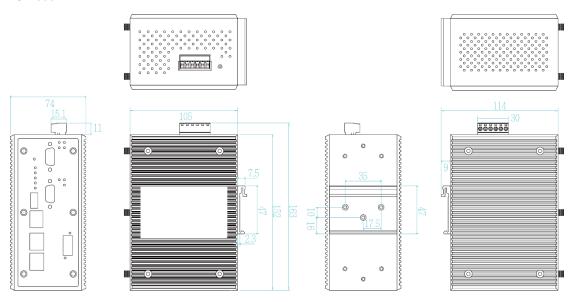
	Weighted Round- Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights.
	Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.
Full Package (incl. basic package)	Sticky Session*	Binding 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

- 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

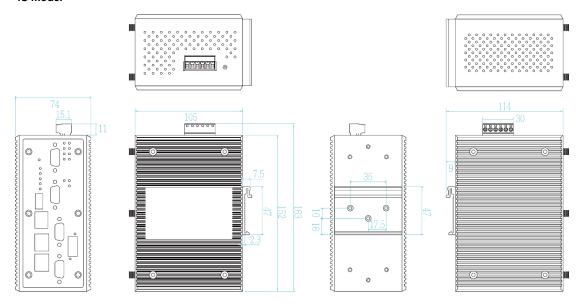
DIMENSIONS (unit=mm)

2S model





4S model



SPECIFICATION

Location Solutions	GPS, Glonass (EU/Americas)		DDNS*
	GPS, Glonass, Beidou, Galileo (APAC model only)	Management	SNMP*v1,v2c,v3/ Web/Telnet/CLI
Band Options	APAC & Australia (APAC model)	Load Balancing**	8 schemes for multiple WAN
	LTE:	Fixed	Manually route by traffic type through fixed WAN link.
	2100/1800/850/2600/900/850/850/1500/700/2600/19 00/2300/2500 MHz	Basic Package	**
	(B1/B3/B5/B7/B8/B18/B19/B21/B28/B38/B39/B40/B4	Failover	Routes connections through preferred WAN link
	1)		while others stand-by. Sequentially activate another
			link if preferred link failure occurs.
	EUNA & USA model	Priority	Routes connections through preferred WAN link
	LTE: 2100/1800/2600/900/800 MHz		while others stand-by. Sequentially activate other
	(B1/B2/B3/B4/B5/B7/B12/B13/B20/B25/B26/B29/B30		links if overflow occurs.
	(B41)	Weighted Round-	Evenly distribute the traffic over all working WAN
		· ·	
	WorldWide (WW model) LTE:	Robin	links in circular order according to the specified weights
	2100/1900/1800/1700/850/2600/900/1800/700/700/8/	Custom Route	Routing through the selected WAN for each specific
	50/850/800/850/700/2300/1500/2500/3500/3700/520		traffic ex: TCP/UDP port number and IP address.
	0/3600/1700	Full Package in	ncl. basic package**
	(B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B18/B19/B20/B	Sticky Session*	Binding all connections in an application session to
	26/B28/B29/B30/B32/B41/B42/B43/B46/B48/B66)		particular WAN link to ensure all connections in the
Data Rates – LTE	APAC & Australia (APAC model)		session are routed to the same WAN link , that is
	Downlink (Cat 6):		suitable for security services like online payment etc.
	FDD: 300 Mbps	Smallest Load*	Routes connections through the WAN link with
	TDD: 222 Mbps	Omanost Load	highest free bandwidth ratio.
	Uplink (Cat 6):		The ratio = 1 - (traffic load / the capability of a WAN
	FDD: 50 Mbps TDD: 26 Mbps		link).
	TDD. 20 Mibps		The traffic load could be defined by downstream,
	Americas (US model) / EMEA (EU model)		upstream or total traffic
	Downlink (Category 3):	Fastest*	Routes connections through the WAN link with lowest
	100 Mbps (20 MHz bandwidth)	Coourity	latency time.
	50 Mbps (10 MHz bandwidth)	Security Timer	SSH/SSL/HTTPS Built-in Real Time Clock to keep track of time
	Uplink (Category 3): 50 Mbps (20 MHz bandwidth)	Tittlet	always(RTC)
	25 Mbps (10 MHz bandwidth)	Discovery	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
		SNMP trap	Device cold / warm start
Software			Port link up / link down
	Dresent		DI / DO high / low**
IPv6/4 Login Security	Present Supports IEEE802.1x** Authentication/RADIUS	Graphic signal	Graphic LTE signal strength & TX / RX rate display
Access Security	HTTP/HTTPS/Telnet/SSH & Administration;	display Remote	To reheat as get status of router by Wahill or SMS**
	SNMP*v1/v2/v3 access for authentication via	Web/SMS** control	To reboot or get status of router by WebUI or SMS**
	MD5/SHA(v3) and Encryption via DES/AES(v3)	Maintenance	Firmware upgradeable through TFTP/FTP/HTTP
Protocol	PPPoE Client, DHCP server/client, Adjustable MTU,	Configuration	Supports text configuration file for quick system
	Port forwarding (NAPT), DMZ; NAT, SNTP,	backup & restore	installation
	Firewall(Firewall(DoS**; IP address filter / Mac		USB port to upload/download configuration by USB
	address filter* / TCP/UDP port name),VRRP**,		dongle**



	InstaView/AIR** for mass configuration/upgrade	DI/DO**	2 Digital Input (DI):
Physical Ports & System			Level 0: -30~2V / Level 1: 10~30V
			Max. input current:8mA
Connectors	10/100/1000T: 2x ports RJ 45 with Auto MDI/MDI-X		2 Digital Output(DO): Open collector to 40 VDC,
	function USB x 1		200mA
	RS-232 connector: 1 x RJ 45	Fault	Red: Ethernet link down or power down
	Serial connector: 2 or 4 DB9	Fault contact	et e e e e e e e e e e e e e e e e e e
	SIM card slots : 4(2L) or 2(1L)	Relay	Relay output to carry capacity of 1A at 24VDC
	SMA connector : 6 female	Power	
	Power & P-Fail connector: 1 x 6-pole terminal block	Input power	Dual DC inputs, 9V~60VDC
	DIDO **: 1 x 5-pole terminal block	Power consumption	20 Watts
Serial Baud Rate	1000Kbps high data rate,250kbps normal for RS232;	(Typ.)	
	20Mbps high data rate,250kbps normal for RS422/485	Physical Ch	aracteristic
Serial Data Bits		Enclosure	IP 30 aluminum case
	5, 6, 7, 8	Dimension	74 (W) x 114 (D) x 152 (H) mm
Serial Parity	odd, even, none, mark, space	Weight	900g
Serial Stop Bits	1, 1.5, 2	Environmen	tal
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	Storage	-40°C ~ 85°C (-40°F ~ 185°F)
RS-422	Tx+,Tx-, Rx+, Rx-,GND	Temperature	
RS-485 (2-wire)	Data+, Data-,GND	Operating	-20°C ~75°C (-4°F ~ 167°F)
Micro SD	128G or 256G(MSD model)	Temperature	-40°C ~75°C (-40°F ~ 167°F)-E model
Isolation protection	RS422/485 2.5KV isolation; 8KV contact & 15KV air	Operating Humidity	5% to 95% Non-condensing
	RS232 8KV contact and 15KV air ESD	Regulatory a	approvais
	DIDO** 3KV isolation	EMC	FCC* Part 15 Class A, EN55032*
	Input power 1.5KVA isolation	EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-
LED Indicate	ors		4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS),
Power & System	Per unit: Power 1 (Green), Power 2 (Green), P-Fail		EN61000-4-8, EN61000-4-11
indicator	(Red), Ring Master(Green), Storage(Green),	E-marking**	E13**
	Serial1/Serial2/Serial3/Serial4(Green),Ready(Green)	MTBF	NA
10/100/1000Base-	Link/Activity (Green), Speed (Yellow)	Warranty	5 years
T(X) port indicator	0 (1:10)		*Future Release
SIM	Green for Link/Act		**Optional
GPS	Green for Link/Act		Spitolial
WLAN LEDs	Link /ACT : Green		

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 $9V\sim60VDC$; $-20\sim75C$

■ 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-APACP/N: 8611-1103

Industrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit



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(inc IMI Indi (inc IMI (inc IMI Indi	St.1 PD port); EU and US band; dual 9V~60VDC; -20~75C R-3002-2L-4S-WW
IMI Indi (inc IMI Indi (inc IMI Indi	R-3002-2L-4S-WW
Inde (inc IMI Inde (inc IMI Inde	ustrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethe cl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C R-3002-2L-4S-APAC
(inc IMI Ind (inc IMI	Sl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C R-3002-2L-4S-APACP/N: 8611-116 ustrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethe sl.1 PD port); APAC band; dual 9V~60VDC; -20~75C R-3002-2L-4SA-EUNAP/N: 8611-117
IMI Indi (inc IMI Indi	R-3002-2L-4S-APACP/N: 8611-116 ustrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethe sl.1 PD port); APAC band; dual 9V~60VDC; -20~75C R-3002-2L-4SA-EUNAP/N: 8611-117
Ind (inc IM I Ind	ustrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethe zl.1 PD port); APAC band; dual 9V~60VDC; -20~75C R-3002-2L-4SA-EUNAP/N: 8611-117
(inc	sl.1 PD port); APAC band; dual 9V~60VDC; -20~75C R-3002-2L-4SA-EUNAP/N: 8611-117
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Ind	
	ustrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port
Eth	ternet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C
	R-3002-2L-4SA-WWP/N: 8611-118
	ustrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port
	ernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C
	R-3002-2L-4SA-APACP/N: 8611-119
	ustrial Dual LTE (Quad SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port
	ernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C
	R-3002-1L-4S-EUNAP/N: 8611-121
	ustrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Ethern
	cl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C
	R-3002-1L-4S-WWP/N: 8611-122
	ustrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Etherr
	cl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C
	R-3002-1L-4S-APACP/N: 8611-123
	ustrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS232 serial ports and 2 port Gigabit Etherr
	bl.1 PD port); APAC band; dual 9V~60VDC; -20~75C
	R-3002-1L-4SA-EUNAP/N: 8611-124
	ustrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port G
	ernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~75C
	R-3002-1L-4SA-WWP/N: 8611-125
	ustrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port G
	ernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~75C
	R-3002-1L-4SA-APACP/N: 8611-126
Ind	ustrial One LTE (Dual SIM) Load Balancing** VPN Mobile Router w/ 4 RS422/485 serial isolated ports and 2 port 0
Eth	ernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~75C
ΕN	IMC Flash Storage
	P/N:8850-113
	GP/N:8850-114
	GP/N:8850-115

OPTIONAL ACCESSORIES

LTE Antenna

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

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

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