T(P)MR-5006

EN50155 Multifunction VPN Router up to 2 LTE 4G + 2 serial ports + 6 Gigabit X-coded Ethernet switch (incl. 4 PoE ports) w/ Load Balancing, VPN, Protocol Gateway, Storage**; WV input

- *Built-in 4 Gigabit X-coded (PoE) Ethernet managed switch +2 WAN/LAN ports, Up to 2x LTE 4G Module (4SIMS)*
- *Support LTE Cat 6*
- *VPN router for Multi-site VPN, OpenVPN, L2TP over IPsec, IPsec, L2 over GRE , IPGRE*
- *Load Balancing support 8 mechanism*
- *Optional EMMC Flash storage on-board***
- *Support NAT and Firewall*
- *Support Modbus gateway on serial ports*
- *Support 2 RS422/RS485 ports with 2.5KV isolation or 2x RS232 ports*
- *Optional 2 GT smart bypass protection*
- *Galvanic isolation on WV model from 16.8V~137.5V input*
- *Environmental monitoring for router inside info with voltage, current, temperature and total PoE load;; LTE signal strength*
- *Editable login page of captive portal for hot-spot application*
- *USB port for backup, restore the configuration file and upgrade firmware; Dual image firmware*
- *IP 65 /54 Aluminum housing for best heat dissipation and preventing moist ingress*
- *Optional eSIM chip enables router with versatile data plans***
- *EN50155/61373/45545 verification for railway application*

OVERVIEW

Lantech T(P)MR-5006 series is a next generation EN50155 multi-function VPN router up to 2 x LTE modem +6 Gigabit X-coded 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 dual 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, T(P)MR-5006 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. 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 mechanism for multi-WANs

T(P)MR-5006 supports Load Balancing for LTE/WAN connections. There are five schemes with 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	Routing through the selected WAN for

	Route	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 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, T(P)MR-5006 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.

Optional 2 GT smart bypass protection

The optional bypass relay is set to bypass the router to the next one when power is off in order to protect the network from crashing. Lantech bypass caters to remain in bypass mode until the router is completely booting up when power is back to avoid another network lost.   Also it will be activated when detecting the router is hanged or link down.

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 T(P)MR-5006 will immediately send email and trap.
The event log can be sent via syslog, emails or trigger the alarm relay.
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 dual input voltage from dual input voltage from 16.8-137.5V (WV model)

The T(P)MR-5006 is able to work from dual 16.8V ~137.5V DC input (WV model) and PoE model built-in PoE at/af with PoE budget 60W that is particular good for vehicle, rail train, depot etc applications.

Built-in Managed Switch Function

Managed switch function is built-in and provides various L2+ functions for network access deployment. It delivers ports and PoE management, VLAN, QoS, multicast, redundant ring, and security functions.

Environmental monitoring for inside router info& alerting; LTE signal strength

The built-in environmental monitoring can detect router ambient temperature, voltage, current and total PoE load where can send the syslog and email when abnormal.

The LTE signal strength shows connection status at a glance

Editable login page of captive portal

The T(P)MR-5006 supports editable captive portal function that allows administrator to force end-users redirect to authentication page.

USB port for back up, restore configuration and upgrade firmware; Dual image firmware

The built-in USB port can upload/download/upgrade the configurations 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 EN50155 design and FCC/CE & E-marking** certificate

The T(P)MR-5006 series is verified with EN50155, EN61373, EN45545 standard with IP65/54 housing. It passed tests under extensive Industrial EMI and environmental vibration and shocks standards. With CE & FCC radio certification for LTE and E-marking** certificate, the T(P)MR-5006 is best for outdoor community, vehicle, power substation, process control automation etc application. For more usage flexibilities, T(P)MR-5006 supports operating temperature from -40°C to 65°C.
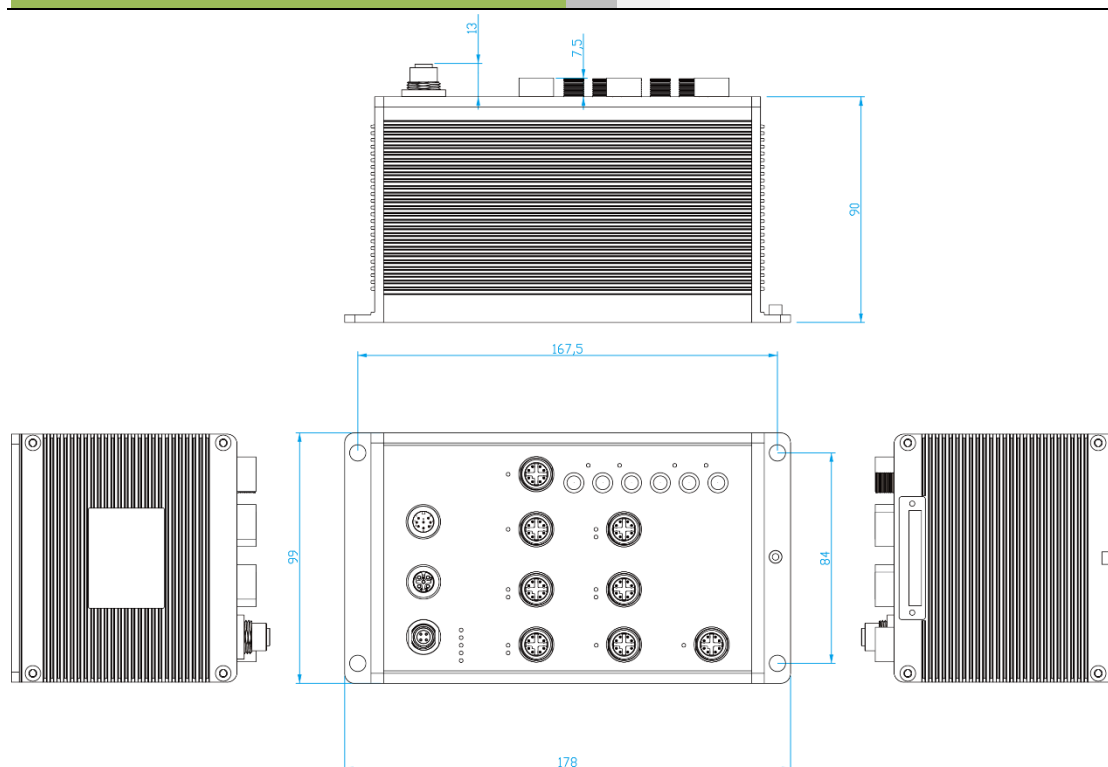
FEATURES & BENEFITS

- Built-in 6 Gigabit X-coded Ethernet managed switch
- PoE model incl. 4 PoE at/af at 60W PoE budget
- Dual DC input from 16.8V~137.5VDC   power input (WV model)
- Optional 2 GT smart bypass relay protection when detecting power lost as well as CPU hang-up or link down.   Deferring bypass time until router is completely boot-up.
- 6 STANDARD SMA / OPTIONAL QMA type connectors
- HTTP/HTTPS/Telnet/SSH & Administration access
- Support IPv6 & IPv4 protocol
- Radius Authentication, EAP-TLS, EAP-TTLS, PEAP
- EMMC-FLASH storage**8/16/32G
- eSIM** to allow data-plan globally
- 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
- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number
- NAT/DMZ/Port Forwarding
- TCP/UDP port number.
- Support SNMP v1/v2c/v3
- One LTE 4G/3G w/ 2 SIM card design(1L model) for mobile redundancy
- GPS/ GLONASS   (built-in LTE module) connection
- Load Balancing supports 5 mechanism between multiple WANs

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)
- Serial port with 2.5KV isolation on 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, Email, Relay ; Permanent local log rotation / Maxi 1K records
- Remote Web control to get status or re-boot by Web
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- LTE signal strength
- Built-in environmental monitoring for system input voltage, current and ambient temperature; Able to set alert when abnormal
- Support editable captive portal login page
- 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*
- Dual image firmware
- IP65/54 housing for water proof environment
- Wall-mount installation
- Visible LED to show the power & port link and activity
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration verification
- Operation temperature -40~65C

DIMENSIONS (unit=mm)

13
7,5
90
167,5
99
84
178

SPECIFICATION

Cellular Interface	
Location Solutions	GPS, Glonass
Band Options	**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
Data Rates – LTE	**Europe & North America (EUNA model)** Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps

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 (DDoS; IP address filter / Mac address filter / TCP/UDP port number), VRRP, DDNS
Routing	Static route / RIPv2 / OSPF / BGP / EIGRP
Management	SNMP v1,v2c,v3/ Web/Telnet/CLI
Load Balancing	5 schemes for multiple WAN

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.
Authentication	Radius Authentication, EAP-TLS, EAP-TTLS, PEAP

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
Environmental Monitoring	System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status
Signal display	LTE signal strength & TX / RX rate display
Remote Web control	To reboot or get status of router by Web
Captive portal	Editable captive portal login page
Maintenance	Firmware upgradeable through TFTP/ HTTP
Configuration backup & restore	Supports text configuration file for quick system installation USB port to upload/download configuration and upgrade firmware by USB dongle Dual image firmware

Physical Ports & System	
Connectors	10/100/1000T: 6x ports M12 8-pole X-coded (PoE model incl 4 PoE ports) USB/Console connector: 1 x M12 8-pole A-coded DI/DO : 1 x M12 5-pole A-coded Power Input connector : 1 x M12 4-pole A-coded Serial connector : 2 x M12 8-pole X-coded **2L model** SMA/QMA** connector for LTE: 4 (female) SMA/QMA** connector for GPS: 2 (female) **1L model** SMA/QMA** connector for LTE: 2 (female) SMA/QMA** connector for GPS: 1 (female)
Serial Baud Rate	1000Kbps high data rate,250kbps normal for RS232 ; 20Mbps high data rate,250kbps normal for RS422/RS485
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

Isolation protection	RS422/RS485 2.5KV isolation; 8KV contact & 15KV air RS232 8KV contact and 15KV air ESD DIDO 2.5KV isolation Input power 1.5KVA isolation
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 80 VDC, 50mA
EMMC Storage**	8/16/32 GB

LED Indicators

Power & System indicator	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red) , Ring Master(Green), System Ready(Green), Serial1/Serial2(Green) ,
10/100/1000Base-T(X) port indicator	Link/Activity (Green), Speed (Yellow)), PoE (Green, PoE model)
SIM	Green for Link/Act
GPS	Green for Link/Act
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 input, 16.8VDC~137.5VDC for (WV model)
System power	30.5W
PoE Budget (PoE model)	60W

Physical Characteristic

Enclosure	IP 65/54 aluminum case
Dimension	178 (W) x 99 (D) x 103 (H) mm

Weight	1450g

Environmental

Storage Temperature	-40ºC ~ 85ºC (-40ºF ~ 185ºF)
Operating Temperature	-40ºC ~ 65ºC (-40ºF ~ 149ºF)
Operating Humidity	5% to 95% Non-condensing

Regulatory approvals

EMC	FCC Part 15 Class A, EN55032 , EN55024
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-6-2
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
Safety	EN60950 (LVD), AS60950 (LVD)
Stability Testing	EN61373 (Shock & Vibration)
Verifications & report	EN50155, EN50121-3-2, EN50121-4 verification EN45545-2 R13/R22/R23/R24/R25 (EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1 & 2) Fire & Smoke verification
MTBF	NA
Warranty	5 years

*Future Release
**Optional
※Standard test of the following bands are not listed in EN 301 908-1 report:
(EUNA not listed bands) LTE = B2, B4, B5, B12, B13, B25, B26, B29, B30, B41
WCDMA = B2, B3, B4, B5;

ORDERING INFORMATION

All standard models are non-conformal coating, optional conformal coating are with –C model name; Optional bypass models are available with –BT model name; QMA connector models are with –Q model name.

■ **TPMR-5006-1L-2S-WV-65-EUNA..………….......………......P/N: 8654-021**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP65; -40~65C

■ **TPMR-5006-1L-2SA-WV-65-EUNA..………….......……….....P/N:8654-0211**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP65; -40~65C

■ **TPMR-5006-1L-2SB-WV-65-EUNA..………….......……........P/N:8654-0212**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP65; -40~65C

■ **TPMR-5006-1L-2S-WV-54-EUNA..………….......………........P/N: 8654-041**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP54; -40~65C

■ **TPMR-5006-1L-2SA-WV-54-EUNA..………….......…………........P/N: 8654-0411**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2   serial RS422 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP54; -40~65C

■ **TPMR-5006-1L-2SB-WV-54-EUNA..………….......…………........P/N: 8654-0412**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP54; -40~65C

■ **TPMR-5006-2L-2S-WV-65-EUNA..………….......………….....P/N: 8654-024**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP65; -40~65C

■ **TPMR-5006-2L-2SA-WV-65-EUNA..………….......………........P/N: 8654-0241**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP65; -40~65C

■ **TPMR-5006-2L-2SB-WV-65-EUNA..………….......….…........P/N: 8654-0242**

EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual   16.8~137.5VDC; IP65; -40~65C

- **TPMR-5006-2L-2S-WV-54-EUNA…………....……….........P/N: 8654-044**
  EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP54; -40~65C

- **TPMR-5006-2L-2SA-WV-54-EUNA…………....……….....P/N: 8654-0441**
  EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP54; -40~65C

- **TPMR-5006-2L-2SB-WV-54-EUNA…………....……….....P/N: 8654-0442**
  EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8~137.5VDC; IP54; -40~65C

- **TMR-5006-1L-2S-WV-65-EUNA….…………....……….......P/N: 8651-021**
  EN50155 Multifunction VPN Router   + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing,   VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C

- **TMR-5006-1L-2SA-WV-65-EUNA….…………....……….....P/N: 8651-0211**
  EN50155 Multifunction VPN Router   + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing,   VPN, Protocol Gateway; EU and US band ; dual   16.8V~137.5VDC; IP65 ; -40~65C

- **TMR-5006-1L-2SB-WV-65-EUNA….…………....……….....P/N: 8651-0212**
  EN50155 Multifunction VPN Router   + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing,   VPN, Protocol Gateway; EU and US band ; dual 16.8V~137.5VDC; IP65 ; -40~65C

- **TMR-5006-1L-2S-WV-54-EUNA….…………....……….........P/N: 8651-041**
  EN50155 Multifunction VPN Router   + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing,   VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C

- **TMR-5006-1L-2SA-WV-54-EUNA….…………....……….......P/N: 8651-0411**
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- **TMR-5006-2L-2SA-WV-65-EUNA….…………....……….........P/N: 8651-0241**
  EN50155 Multifunction VPN Router   + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing,   VPN, Protocol Gateway; EU and US band ; dual 16.8V~137.5VDC; IP65 ; -40~65C

- **TMR-5006-2L-2SB-WV-65-EUNA….…………....……….........P/N: 8651-0242**
  EN50155 Multifunction VPN Router   + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing,   VPN, Protocol Gateway; EU and US band ; dual 16.8V~137.5VDC; IP65 ; -40~65C

- **TMR-5006-2L-2S-WV-54-EUNA….…………....……….........P/N: 8651-044**
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- **TMR-5006-2L-2SA-WV-54-EUNA….…………....……….......P/N: 8651-0441**
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- **TMR-5006-2L-2SB-WV-54-EUNA….…………....……….......P/N: 8651-0442**
  EN50155 Multifunction VPN Router   + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing,   VPN, Protocol Gateway; EU and US band ; dual 16.8V~137.5VDC; IP54 ; -40~65C

EMMC Flash Storage
- **8G…………..…………………………......…………...P/N:8850-113**
- **16G………..……………………………......…...……...P/N:8850-114**
- **32G……………………………………………………P/N:8850-115**

OPTIONAL ACCESSORIES

Management System

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

GPS Antenna

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

Cellular Antenna

■ **ANT11000046**   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