

T(P)MR-5004

EN50155 Multifunction VPN Router up to 2 LTE 4G + 2 serial ports + 4 Gigabit X-coded (PoE) Switch + 2 WAN/LAN 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 (APAC & EUNA models) or Cat 12/9/13 (WW model)
- 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 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; PoE model with PoE budget 60W
- 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-5004 series is a next generation EN50155 multi-function VPN router up to 2 x LTE modem +4 Gigabit X-coded Ethernet switch incl. 4 PoE ports (PoE model) + 2 WAN/LAN ports + 2 serial ports that supports advanced function of VPN, Load-Balancing, EMMC Flash Storage**, Protocol gateway(Modbus), Storage**, LTE dual SIM fail-over for industrial applications. The dual core CPU with 1.6GHz + 256M flash enables the router to multi-task smoothly.

Optional EMMC Flash storage**

The optional EMMC flash storage on the router can offer 8G/16G/32G capacity.

Dual concurrent LTE design 4G/3G for load-balancing

With dual LTE module design (2L model), 4 SIM card slots, T(P)MR-5004 can allow auto-swap, failover & fallback 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.

Load Balancing with 5 mechanism for multi-WANs

T(P)MR-5004 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 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 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.

Support various VPN applications and firewall

Besides traditional VPN peer to peer tunneling, T(P)MR-5004 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 T(P)MR-5004 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 input voltage from 16.8~137.5VDC (WV model); Built-in 4 port switch (PoE model including 4 PoE with 60W budget)

The T(P)MR-5004 is able to work from 16.8~137.5V (WV with isolation) and PoE model built-in 4 port PoE at/af with PoE

budget 60W that is particular good for vehicle, rail train, depot etc. application

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.

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.

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

The built-in USB ports can upload/download the configurations through USB dongle for router replacement.

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

Editable login page of captive portal

The T(P)MR-5004 supports editable captive portal function that allows administrator to force end-users redirect to authentication page.

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-5004 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-5004 is best for outdoor community, vehicle, power substation, process control automation etc. For more usage flexibilities, T(P)MR-5004 supports operating temperature from -40°C to 65°C.

FEATURES & BENEFITS

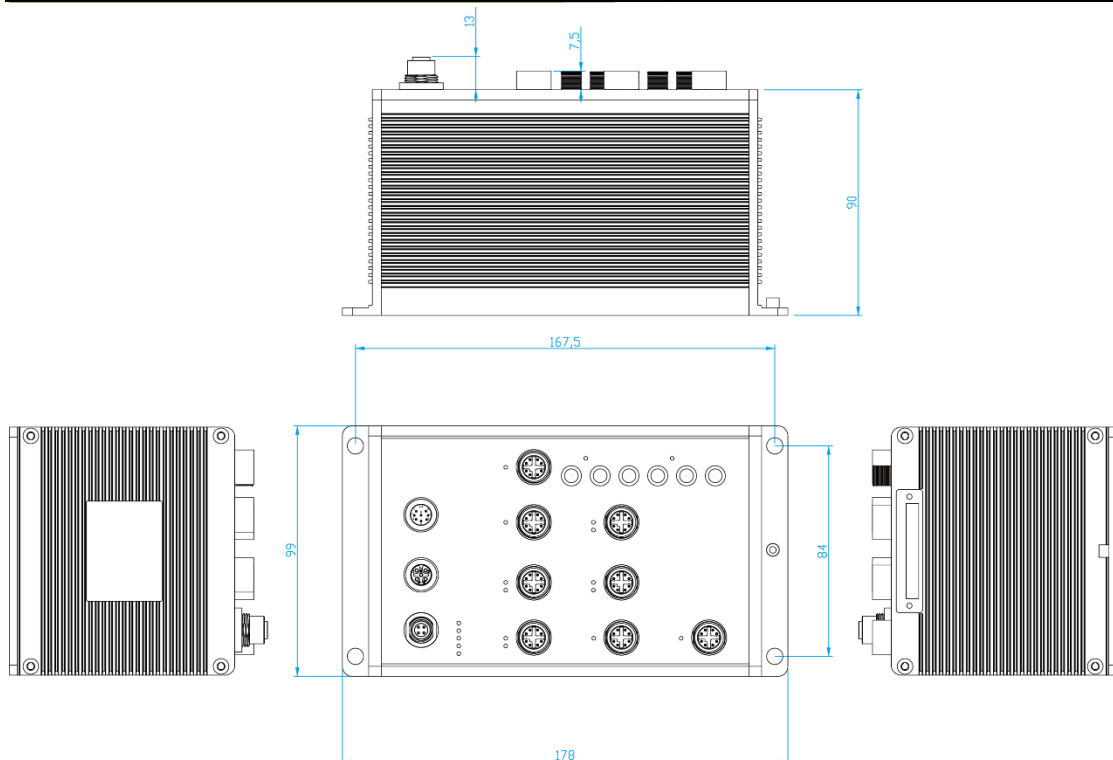
- Built-in 4 Gigabit X-coded (PoE) Ethernet managed switch + 2 WAN/LAN ports (PoE budget 60W)
- Dual DC input from 16.8V~137.5VDC input (WV model)
- EMMC-FLASH storage**8/16/32G
- eSIM** to allow data-plan globally
- 6 STANDARD SMA / OPTIONAL QMA type connectors for LTE, GPS
- HTTP/HTTPS/Telnet/SSH & Administration access
- Support IPv6 & IPv4 protocol
- 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
- 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
- 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, SNMP Trap, 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
- Firmware upgradeable through TFTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download configurations by USB dongle
- Dual image firmware
- IP 65/54 housing for water proof environment
- Support editable captive portal login page
- 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)



SPECIFICATION

Cellular Interface		Monitoring	temperature to be shown in GUI and sent alerting if any abnormal status
Location Solutions	GPS, Glonass (EU/Americas) GPS, Glonass, Beidou, Galileo (APAC model only)	Signal display	LTE signal strength & TX / RX rate display
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* 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 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*	Remote Web control	To reboot or get status of router by Web
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 Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps	Captive portal	Editable captive portal login page
Software		Maintenance	Firmware upgradeable through TFTP/ HTTP
IPv6/4	Present	Configuration backup & restore	Supports text configuration file for quick system installation USB port to upload/download configurations and upgrade firmware by USB dongle Dual image firmware
Login Security	Supports IEEE802.1x Authentication/RADIUS	Physical Ports & System	
Access Security	HTTP/HTTPS/Telnet/SSH & Administration; SNMP v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3)	Connectors	10/100/1000T: 6x ports M12 8pole X-coded incl. 2 WAN/LAN ports (PoE model incl. 4 PoE ports) USB/Console connector: 1 x M12 8-pole A-coded DIDO : 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)
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	Serial Baud Rate	1000Kbps high data rate,250kbps normal for RS232 ; 20Mbps high data rate,250kbps normal for RS422/RS485
Routing	Static route / RIPv2 / OSPF / BGP / EIGRP	Serial Data Bits	5, 6, 7, 8
Management	SNMP v1,v2c,v3/ Web/Telnet/CLI	Serial Parity	odd, even, none, mark, space
Load Balancing	5 schemes for multiple WAN	Serial Stop Bits	1, 1.5, 2
Basic		RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Fixed	All traffic will be distributed to a single WAN.	RS-422	Tx+,Tx-, Rx+, Rx-,GND
Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.	RS-485 (2-wire)	Data+, Data-,GND
Priority	Select the active WAN according to priority.	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
Weighted Round-Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights	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
Custom Route	Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address.	EMMC Storage**	8/16/32 GB
Authentication	Radius Authentication, EAP-TLS, EAP-TTLS, PEAP	LED Indicators	
Timer	Built-in Real Time Clock to keep track of time always(RTC)	Power & System indicator	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red) , Ring Master(Green), System Ready(Green), Serial1/Serial2(Green) ,
Discovery	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	10/100/1000Base-T(X) port indicator	Link/Activity (Green), Speed (Yellow), PoE (Green, PoE model)
SNMP trap	Device cold / warm start Port link up / link down DI / DO high / low	SIM	Green for Link/Act
Environmental	System status for input voltage, current , ambient	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)
		PoE budget (PoE model)	60W
		Power consumption (Typ.)	20W Watts
		Physical Characteristic	
		Enclosure	IP 65/54 aluminum case
		Dimension	178 (W) x 99 (D) x 103 (H) mm
		Weight	1000g
		Environmental	
		Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
		Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)
		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	Warranty	5 years	*Future Release **Optional
Safety	EN60950 (LVD), AS60950 (LVD)			※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;
Stability Testing	EN61373 (Shock & Vibration)			(EUNA not listed bands) LTE = B2, B4, B5, B12, B13, B25, B26, B29, B30, B41 WCDMA = B2, B3, B4, B5;
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			(WW not listed bands) LTE = B2, B4, B5, B9, B12, B13, B18, B19, B26, B29, B30, B32, B41, B46, B48, B66 WCDMA = B2, B3, B4, B5, B6, B9, B19
MTBF	NA			

ORDERING INFORMATION

All standard models are non-conformal coated, optional conformal coated models are available with -C model name; QMA connector models are with -Q model name.

- **TPMR-5004-1L-2S-WV-65-EUNA.....P/N: 8644-021**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2S-WV-65-WW.....P/N: 8644-022**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2S-WV-65-APAC.....P/N: 8644-023**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2SA-WV-65-EUNA.....P/N: 8644-0211**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2SA-WV-65-WW.....P/N: 8644-0221**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2SA-WV-65-APAC.....P/N: 8644-0231**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2SB-WV-65-EUNA.....P/N: 8644-0212**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2SB-WV-65-WW.....P/N: 8644-0222**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2SB-WV-65-APAC.....P/N: 8644-0232**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-1L-2S-WV-54-EUNA.....P/N: 8644-041**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-1L-2S-WV-54-WW.....P/N: 8644-042**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-1L-2S-WV-54-APAC.....P/N: 8644-043**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-1L-2SA-WV-54-EUNA.....P/N: 8644-0411**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-1L-2SA-WV-54-WW.....P/N: 8644-0421**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors+ 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-1L-2SA-WV-54-APAC.....P/N: 8644-0431**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors+ 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-1L-2SB-WV-54-EUNA.....P/N: 8644-0412**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-1L-2SB-WV-54-WW.....P/N: 8644-0422**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors+ 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE

- switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-1L-2SB-WV-54-APAC.....P/N: 8644-0432**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors+ 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2S-WV-65-EUNA.....P/N: 8644-024**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2S-WV-65-WW.....P/N: 8644-025**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2S-WV-65-APAC.....P/N: 8644-026**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2SA-WV-65-EUNA.....P/N: 8644-0241**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2SA-WV-65-WW.....P/N: 8644-0251**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2SA-WV-65-APAC.....P/N: 8644-0261**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2SB-WV-65-EUNA.....P/N: 8644-0242**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2SB-WV-65-WW.....P/N: 8644-0252**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2SB-WV-65-APAC.....P/N: 8644-0262**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TPMR-5004-2L-2S-WV-54-EUNA.....P/N: 8644-044**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2S-WV-54-WW.....P/N: 8644-045**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2S-WV-54-APAC.....P/N: 8644-046**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2SA-WV-54-EUNA.....P/N: 8644-0441**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2SA-WV-54-WW.....P/N: 8644-0451**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors+ 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2SA-WV-54-APAC.....P/N: 8644-0461**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors+ 2 serial RS422 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2SB-WV-54-EUNA.....P/N: 8644-0442**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2SB-WV-54-WW.....P/N: 8644-0452**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors+ 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TPMR-5004-2L-2SB-WV-54-APAC.....P/N: 8644-0462**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors+ 2 serial RS485 ports + 4 Gigabit X-coded Ethernet PoE switch + 2 WAN/LAN w/Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
- **TMR-5004-1L-2S-WV-65-EUNA..... P/N: 8641-001**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TMR-5004-1L-2S-WV-65-WW..... P/N: 8641-002**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TMR-5004-1L-2S-WV-65-APAC..... P/N: 8641-003**
EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet

- Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TMR-5004-1L-2SA-WV-65-EUNA..... P/N: 8641-0011**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-1L-2SA-WV-65-WW..... P/N: 8641-0021**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-1L-2SA-WV-65-APAC..... P/N: 8641-0031**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-1L-2SB-WV-65-EUNA..... P/N: 8641-0012**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-1L-2SB-WV-65-WW..... P/N: 8641-0022**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-1L-2SB-WV-65-APAC..... P/N: 8641-0032**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-1L-2S-WV-54-EUNA..... P/N: 8641-004**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-1L-2S-WV-54-WW..... P/N: 8641-005**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-1L-2S-WV-54-APAC..... P/N: 8641-006**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-1L-2SA-WV-54-EUNA..... P/N: 8641-0041**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-1L-2SA-WV-54-WW..... P/N: 8641-0051**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-1L-2SA-WV-54-APAC..... P/N: 8641-0061**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-1L-2SB-WV-54-EUNA..... P/N: 8641-0042**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-1L-2SB-WV-54-WW..... P/N: 8641-0052**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-1L-2SB-WV-54-APAC..... P/N: 8641-0062**
 EN50155 Multifunction VPN Router + 1 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-2L-2S-WV-65-EUNA..... P/N: 8641-007**
 EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-2L-2S-WV-65-WW..... P/N: 8641-008**
 EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet

- Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
- **TMR-5004-2L-2S-WV-65-APAC..... P/N: 8641-009**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-2L-2SA-WV-65-EUNA..... P/N: 8641-0071**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-2L-2SA-WV-65-WW..... P/N: 8641-0081**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-2L-2SA-WV-65-APAC..... P/N: 8641-0091**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-2L-2SB-WV-65-EUNA..... P/N: 8641-0072**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-2L-2SB-WV-65-WW..... P/N: 8641-0082**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-2L-2SB-WV-65-APAC..... P/N: 8641-0092**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP65; -40~65C
 - **TMR-5004-2L-2S-WV-54-EUNA..... P/N: 8641-010**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-2L-2S-WV-54-WW..... P/N: 8641-011**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-2L-2S-WV-54-APAC..... P/N: 8641-012**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS232 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-2L-2SA-WV-54-EUNA..... P/N: 8641-0101**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-2L-2SA-WV-54-WW..... P/N: 8641-0111**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors+ 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54 ; -40~65C
 - **TMR-5004-2L-2SA-WV-54-APAC..... P/N: 8641-0121**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors+ 2 serial RS422 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC band; dual 16.8V~137.5VDC; IP54 ; -40~65C
 - **TMR-5004-2L-2SB-WV-54-EUNA..... P/N: 8641-0102**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors + 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; EU and US band; dual 16.8V~137.5VDC; IP54; -40~65C
 - **TMR-5004-2L-2SB-WV-54-WW..... P/N: 8641-0112**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors+ 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; Worldwide band; dual 16.8V~137.5VDC; IP54 ; -40~65C
 - **TMR-5004-2L-2SB-WV-54-APAC..... P/N: 8641-0122**
EN50155 Multifunction VPN Router + 2 LTE 4G SMA connectors+ 2 serial RS485 ports + 4 Gigabit X-coded Ethernet Managed Switch + 2WAN/2LAN with Load Balancing, VPN, Protocol Gateway; APAC 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

- **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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