

IPMR-3204DF

Industrial Multifunction VPN Router Managed Ethernet switch w/up to 2 LTE 4G + 2 serial ports + 4 Gigabit Ethernet (incl. 4 PoE) + 2 dual speed SFP w/ Load Balancing, VPN, Storage**; 24V input

- Up to 2 concurrent mobility for 3G/4G LTE Link&GPS (2L model/4 SIMs)
- Support LTE Cat 6 (APAC & EUNA models) or Cat 12/9/13 (WW model)
- Built-in 4 Gigabit Ethernet managed switch including PoE at/af w/budget 80W
- Federal Information Processing Standards (FIPS)-compliance**
- Managed Switch functions cover port management, QOS, VLAN, multicast, redundant ring and security function
- VPN router for Multi-site VPN, OpenVPN, L2TP over IPsec, IPsec, PPTP**, L2 over GRE, IPGRE
- Load Balancing built-in 5 mechanism
- Optional EMMC Flash storage on-board**
- Support NAT and Firewall
- Support 2 RS422/RS485 ports with 2.5KV isolation or 2 RS232 ports
- Dual input voltage 9~56VDC (24V model)
- Vehicle E-marking** certificate
- ITxPT compliant w/ ignition function**
- Environmental monitoring for router inside info with voltage, current, temperature and total POE load: LTE graphic signal strength
- Editable login page of captive portal for hot-spot application
- Dual image firmware*























Lantech IPMR-3204DF series is a next generation industrial multi-function VPN router w/up to 2x LTE modem + 4x Gigabit Ethernet ports incl. 4 PoE ports + 2 dual speed SFP+ 2 serial ports that supports advanced function of VPN, Load-Balancing(Basic & Full Package**), EMMC Flash Storage**, Protocol gateway(Modbus), 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, IPMR-3204DF can allow auto-swap, failover & failback between multiple service providers for real non-stop connection. With concurrent LTE modules, it can also allocate bandwidth by "Load Balancing with 8 schemes between multiple WANs.

With one mobile LTE module (1L model), 2 SIM card slots, IPMR-3204DF provides redundant link between two service providers.

Both GPS and Russian GLONASS systems are supported.

Optional EMMC Flash storage**

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

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

IPMR-3204DF supports Load Balancing for LTEWAN connections. There are eight schemes for Load Balancing function:

Pack	Algorithm	Description
Basic Package	Fixed	Manually route by traffic type through fixed WAN link.
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not failback until link loss.



	Priority Weighted Round-	Routes connections through preferred WAN link as primary while others follow by. Ex. Wi-Fi client>LTE>others Evenly distribute the traffic over all working WAN links in circular	
	Robin	order according to the specified weights.	
	Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.	
Full Package** (incl. basic package)	Sticky Session*	Binding all connections in an application session to particular WAN link to ensure all connections in the session are routed to the same WAN link, that is suitable for security services like online payment etc.	
	Smallest Load*	Routes connections through the WAN link with highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic	
	Fastest*	Routes connections through the WAN link with lowest latency time.	

2 port serial connection

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

Managed switch Function

With port managed functions, QOS, VLAN, Multicast, Redundant protection, security

VPN and firewall

Besides traditional VPN peer to peer tunneling, IPMR-3204DF support latest Multi-Site VPN function that is an efficient way for mesh tunneling. The registration is under cloud service and encrypted by SSH makes the connection easy and safe.

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

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

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

2 sets of DIDO function can support additional high/low physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the router was moved or stolen. In case of events, the IPMR-3204DF 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 (24V Model); Built-in 4 port PoE at/af switch with 80W budget

The IPMR-3204DF is able to work from 9VDC to 56VDC (24V Model) for PoE at/af with PoE budget 80W @12V /80W @24V 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.

Ignition Sensing^{*}

Ignition sense allows you to delay power off the router with a designated time delay.

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.

Dual image firmware*

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

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

The IPMR-3204DF is designed to meet with industrial network environment with IP 30 housing. It passed serious tests under extensive Industrial EMI and environmental vibration and shocks standards.

With CE & FCC radio certification for LTE and E-marking** certificate, the IPMR-3204DF is best for outdoor community, vehicle, process control automation etc application. For more usage flexibilities, IPMR-3204DF supports wide operating temperature from -40°C to 65°C.

FEATURES & BENEFITS

- Built-in 4 Gigabit Ethernet managed switch incl. 4 PoE at/af for PoE budget 80W
- Managed Ethernet switch Functions
- 6 SMA type connectors for LTE & GPS
- HTTP/HTTPS/Telnet/SSH & Administration access
- Support IPv6 & IPv4 protocol
- EMMC-FLASH storage**8/16/32G
- Radius Authentication, EAP-TLS, EAP-TTLS, PEAP



- Support Multi-Site VPN for mesh tunneling as well as Open VPN, L2TP over IPsec, IPsec, PPTP**, L2 over GRE, IPGRE and NAT for secured network connection
- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number
- NAT/DMZ/Port Forwarding
- 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
- Fast roaming** (Optional) between APs by Wireless Controller
- Load Balancing supports 8 mechanism between multiple WANs

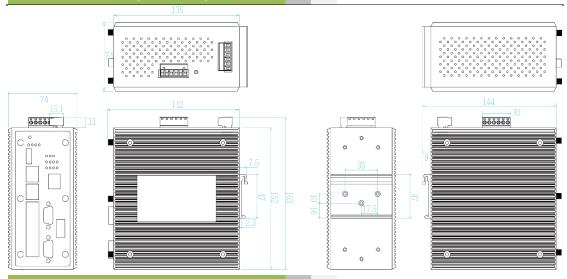
Pack	Algorithm	Description	
Basic Package	Fixed	Manually route by traffic type through fixed WAN link.	
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not failback until link loss.	
	Priority	Routes connections through preferred WAN link as primary while others follow by. Ex. Wi-Fi client>LTE>others	
	Weighted Round- Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights.	
	Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.	
Full Package** (incl. basic	Sticky Session*	Binding all connections in an application session to particular WAN link to ensure all	

package)		connections in the session are routed to the same WAN link , that is suitable for security services like online payment etc.
	Smallest Load*	Routes connections through the WAN link with highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic
	Fastest*	Routes connections through the WAN link with lowest latency time.

- Built-in 2 x serial ports(RS232/RS422/RS485)
- Serial port with 2.5KV isolation on RS422/RS485
- Supports 2DI / 2DO (Digital Input / Output)
- Event alerting by Syslog, SNMP Trap, Email, Relay;
 Permanent local log rotation / Maxi 1K records
- Remote Web control to get status or re-boot by Web
- Graphic LTE signal strength
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Built-in environmental monitoring for system input voltage, current and ambient temperature; Able to set alert when abnormal
- Dual image firmware* to choose which to start
- Firmware upgradeable through TFTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download configuration by USB dongle
- Reset button for factory default mode
- IP 30 housing for industrial environment
- DIN-Rail and Wall-mount** installation
- ITxPT compliant w/ ignition function**
- Operation temperature -40~65°C



DIMENSIONS (unit=mm)



SPECIFICATION

SPECIF	ICATION		
Location Solutions	GPS, Glonass (EUNA/Americas)	Failover	Routes connections through preferred WAN link
	GPS, Glonass, Beidou, Galileo (APAC model only)	1 dilovoi	while others stand-by. Sequentially activate another
Band Options	Asia-Pacific (APAC model)		
	LTE = B1, B3, B5%, B7, B8, B18%, B19%, B21%,		link if preferred link failure occurs.
	B28, B38 (TDD), B39% (TDD), B40 (TDD), B41%	Priority	Routes connections through preferred WAN link
	(TDD) DC-HSPA+/ HSPA+/ HSPA/ UMTS = B1, B5%, B6		while others stand-by. Sequentially activate other
	, B8, B9, B19*		links if overflow occurs.
	x, 50, 50 x, 510 x	Weighted Round-	Evenly distribute the traffic over all working WAN
	Europe & North America (EUNA model)	Robin	links in circular order according to the specified
	LTE = B1, B2%, B3, B4%, B5%, B7, B8, B12%, B13		weights
	, B20, B25, B26**, B29**, B30**, B41** (TDD)	Custom Route	Routing through the selected WAN for each specific
	DC-HSPA+/ HSPA+/ HSPA/ UMTS = B1, B2%, B3, B4%, B5%, B8		traffic ex: TCP/UDP port number and IP address.
	5 (M, 50 M, 50	Full Package** incl.	Basic package
	World Wide (WW model)	Sticky Session*	Binding all connections in an application session to
	LTE = B1, B2%, B3, B4%, B5%, B7, B8, B9%, B12		particular WAN link to ensure all connections in the
	, B13, B18*, B19*, B20, B26*, B28, B29*,		session are routed to the same WAN link , that is
	B30%, B32%, B41% (TDD), B42% (TDD), B43% (TDD), B46% (TDD), B48% (TDD), B66%		suitable for security services like online payment etc.
	WCDMA = B1, B2%, B3%, B4%, B5%, B6%, B8,	Smallest load*	Routes connections through the WAN link with
	B9%, B19%		highest free bandwidth ratio.
Data Rates – LTE	Asia-Pacific (APAC model)		The ratio = 1 - (traffic load / the capability of a WAN link).
	Downlink (Cat 6):		
	FDD: 300 Mbps		The traffic load could be defined by downstream,
	TDD: 222 Mbps Uplink (Cat 6):	F	upstream or total traffic
	FDD: 50 Mbps	Fastest*	Routes connections through the WAN link with lowest latency time.
	TDD: 26 Mbps	Security	SSH/SSL/HTTPS
		Login Security	Supports IEEE802.1x Authentication/RADIUS
	Europe & North America (EUNA model)	Access Security	HTTP/HTTPS/TeInet/SSH & Administration;
	Downlink (Cat 6):		SNMP*v1/v2/v3 access for authentication via
	FDD: 300 Mbps TDD: 222 Mbps		MD5/SHA(v3) and Encryption via DES/AES(v3)
	Uplink (Cat 6):	Protocol	PPPoE Client, DHCP server/client, Adjustable MTU,
	FDD: 50 Mbps		Port forwarding (NAPT), DMZ; NAT, SNTP,
	TDD: 26 Mbps		Firewall(Firewall(DDoS; IP address filter / Mac address filter / TCP/UDP port name),VRRP**,
			DDNS*
	World Wide (WW model)	Management	SNMP*v1,v2c,v3/ Web/Telnet/CLI
	Downlink: Cat 12: 600 Mbps	Managed function	QOS, VLAN, Multicast, Redundant protection,
	Cat 9: 450 Mbps		security
	Uplink:	Environmental	System status for input voltage, current , ambient
	Cat 13: 150 Mbps	Monitoring	temperature to be shown in GUI and sent alerting if
Software			any abnormal status
IPv6/4	Present	Graphic signal	Graphic LTE signal strength
VPN	Multi-site VPN, Open VPN, PPTP**, L2TP over	display —	D 76: D 17: OLIVIN 1 1 1
Firewell	IPSec, IPSec, L2 over GRE, IPGRE and NAT	Timer	Built-in Real Time Clock to keep track of time always(RTC)
Firewall	DDoS, IP address filter / Mac address filter / TCP/UDP port number	Discovery	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
Load Balancing	8 schemes for multiple WAN(client mode)	SNMP trap	Device cold / warm start
Basic Package	o solicines for manaple ward(client mode)		Port link up / link down
Fixed	Manually route by traffic type through fixed WAN link.		DI/DO high / low
	, , , , , , , , , , , , , , , , , , , ,		



Remote Web	To reboot router by WebUI	Relay	Relay output to carry capacity of 1A at 24VDC
control		Power	
Maintenance	Firmware upgradeable through TFTP/HTTP	Input power	Dual DC input, 9~56VDC (24V model)
Configuration	Supports text configuration file for system quick	PoE Budget	80W @12V /80W @24V
backup & restore	installation	Power consumption	30.5 Watts
	USB port to upload/download configuration by USB	(Typ.)	
	dongle	Physical Ch	aracteristic
Physical Po	rts & System	Enclosure	IP 30 Metal case
Connectors	10/100/1000T: 4x ports RJ 45 (incl 4 PoE ports)	Dimension	74 (W) x 142 (D) x 152 (H) mm
	Dual Speed SFP port x 2ports	Weight	900g
	USB x 1	Environmental	
	RS-232 connector: 1 x RJ 45	Storage	-40°C ~ 85°C (-40°F ~ 185°F)
	Serial connector : 2 DB9	Temperature	,
	SIM card slots : 4(2L) or 2(1L)	Operating	-40°C ~ 65°C (-40°F ~ 149°F)
	2L model	Temperature	
	SMA connector for LTE: 4 (female)	Operating Humidity	·
	SMA connector for GPS: 2 (female)	Regulatory	approvals
	1L model	Safety	EN 62368*
	SMA connector for LTE: 2 (female)	EMC	FCC Part 15B Class A,
	SMA connector for GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block		EN 55032: 2015,
	DIDO: 1 x 5-pole terminal block		EN 55024: 2010
Serial Baud Rate	1000Kbps for RS232 ; 12Mbps for RS422/RS485		IEC 61000-6-2,
Serial Data Bits	5, 6, 7, 8		IEC 61000-6-4
Serial Parity	odd, even, none, mark, space	EMS	IEC 61000-4-2 (ESD),
	1. 1.5. 2		IEC 61000-4-3 (RS),
Serial Stop Bits RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND		IEC 61000-4-4 (EFT),
RS-422	Tx+,Tx-, Rx+, Rx-,GND		IEC 61000-4-5 (Surge),
RS-422 RS-485 (2-wire)	Data+, Data-, GND		IEC 61000-4-6 (CS),
Isolation protection	RS422/RS485 2.5KV isolation; 8KV contact & 15KV	Radio Frequency	IEC 61000-4-8 (PFMF)
isolation protection	air	Radio Frequency	EN 301 489-1, EN 301 489-17,
	RS232 8KV contact and 15KV air ESD		EN 301 489-17, EN 301 489-19,
	DIDO 3KV isolation		EN 301 489-52
	Input power 1.5KVA isolation		EN 301 908-1%.
EMMC**	8G 16G 32G		EN 303 413,
DI/DO	2 Digital Input (DI) :		EN 62311
	Level 0: -30~2V / Level 1: 10~30V	Vehicle certificate	E13**
	Max. input current:8mA		ITxPT compliant**
	2 Digital Output(DO): Open collector to 40 VDC,	MTBF	NA
	200mA	Warranty	5 years
LED Indicate	ors	,	*Future Release
Power & System	Per unit: Power 1 (Green), Power 2 (Green), P-Fail		**Optional
indicator	(Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green)	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 (APAC not listed bands) LTE = B5, B18, B19, B21, B39, B39, B39, B39, B39, B39, B39, B39	
10/100/1000Base-	Link/Activity (Green), Speed (1000T: Yellow;		WCDMA = B5, B6, B9, B19;
T(X) port indicator	10/100TX: off), PoE (Green)	(EUNA not listed bands) LTE = B2, B4, B5, B12, B13, B25, B26, B29, B30, B41	
SIM	Green for Link/Act	OADAL mad linda d 1 1-1	WCDMA = B2, B4, B5;
GPS	Green for Link/Act	(vvvv not listed bands)	LTE = B2, B4, B5, B9, B12, B13, B18, B19, B26, B29, B30, B32, B41, B42, B43, B46, B48, B66
Fault	Red: Ethernet link down or power down		WCDMA = B2, B3, B4, B5, B6, B9, B19
	-		- , , , , , , , , , , , , , , , , , , ,
Fault contact			

ORDERING INFORMATION

■ IPMR-3204DF-2L-2S-24V-EUNA......P/N: 8682-001

Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router managed Ethernet Switch w/ 2 RS232 serial ports and 4 Giga ports and 2 dual speed SFP incl.4 PoE; EU and US band; dual input 9~56VDC; -40~65C

■ IPMR-3204DF-2L-2S-24V-APAC......P/N: 8682-002

Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router managed Ethernet Switch w/ 2 RS232 serial ports and 4 Giga ports and 2 dual speed SFP incl.4 PoE; APAC band; dual input 9~56VDC; -40~65C

■ IPMR-3204DF-2L-2S-24V-WW......P/N: 8682-003

Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router managed Ethernet Switch w/ 2 RS232 serial ports and 4 Giga ports and 2 dual speed SFP incl.4 PoE; worldwide band; dual input 9~56VDC; -40~65C

■ IPMR-3204DF-2L-2SA-24V-EUNA......P/N: 8682-0011

Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router managed Ethernet Switch w/2 RS422 serial ports and 4 Giga ports and 2 dual speed SFP incl.4 PoE; EU and US band; dual input 9~56VDC; -40~65C

IPMR-3204DF-2L-2SA-24V-APAC......P/N: 8682-0021

Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router managed Ethernet Switch w/2 RS422 serial ports and 4 Giga ports and 2 dual speed SFP incl.4 PoE; APAC band; dual input 9~56VDC; -40~65C

■ IPMR-3204DF-2L-2SA-24V-WW......P/N: 8682-0031

Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router managed Ethernet Switch w/2 RS422 serial ports and 4 Giga ports and 2 dual speed SFP incl.4 PoE; Worldwide band; dual input 9~56VDC; -40~65C

■ IPMR-3204DF-2L-2SB-24V-EUNA......P/N: 8682-0012

Industrial Dual LTE (Quad SIM) Load Balancing Multifunction Router managed Ethernet Switch w/2 RS485 serial ports and 4



Giga ports and 2 dual speed SFP incl.4 PoE; EU and US band; dual input 9~56VDC; -40~65C

Software License

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

EMMC Flash Storage

8G	P/N: 8850-113
16G	
32G	D/N: 8850-115

OPTIONAL ACCESSORIES

DIN Rail Power

■ NDR-480 Series 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

NDR-240 Series 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

■ NDR-120 Series 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ (ambient, derating each output at 2.5% per degree from $50^{\circ}\text{C} \sim 70^{\circ}\text{C}$; For 115VAC, please refer to

derating curve on NDR-120 Series datasheet)

■ NDR-75 Series 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2;

Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to

derating curve on NDR-120 Series datasheet)

Mini GBIC (SFP)

■ 8330-162X	MINI GBIC 1000SX (LC/0.5km) Transceiver	8330-188	LTSFP-1000BX-10KM Transceiver (WDM 1310)
8330-163X	MINI GBIC 1000SX2 (LC/2km) Transceiver	8330-189	LTSFP-1000BX-10KM Transceiver (WDM 1550)
8330-165X	MINI GBIC 1000LX (LC/10km) Transceiver	8330-186	LTSFP-1000BX-20KM Transceiver (WDM 1310)
8340-0591	MINI GBIC 1000LHX (LC/40km) Transceiver	8330-187	LTSFP-1000BX-20KM Transceiver (WDM 1550)
8330-166	MINI GBIC 1000XD (LC/50km) Transceiver	8330-180	LTSFP-1000BX-40KM Transceiver (WDM 1310)
8330-169	MINI GBIC 1000XD (LC/60km) Transceiver	8330-182	LTSFP-1000BX-40KM Transceiver (WDM 1550)
8330-167	MINI GBIC 1000ZX (LC/80km) Transceiver	8330-181	LTSFP-1000BX-60KM Transceiver (WDM 1310)
8330-170	MINI GBIC 1000EZX (120km) Transceiver	8330-183	LTSFP-1000BX-60KM Transceiver (WDM 1550)
8330-168	MINI GBIC 1000T (100m) Transceiver	8330-184	LTSFP-1000BX-80KM Transceiver (WDM 1490)



8330-185 8330-262 LTSFP-1000BX-80KM Transceiver (WDM 1550)
MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver

8330-263 8330-265 MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver MINI GBIC 2.5G 1310nm DFB (LC/15km) Transceiver

All SFP ended with D are with Diagnostic function

Management System

■ InstaAir......P/N: 9000-121

Cloud Based Fleet Management System for Routers

Multifunction Antenna

ANT11000091

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



■ ANT11000092

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



GPS Antenna

ANT12000001

SMA GPS antenna, 28dB, 300m



Cellular Antenna

■ ANT11000041

2G/3G/4G dipole antenna, 791-960/1710~2170/2500~2700MHz, 3dBi, SMA plug, EU



ANT11000042

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



ANT11000044

2G/3G/4G dipole antenna, 704-960/1710~2690MHz, 1.6dBi, SMA plug, EU



ANT11000045

2G/3G/4G dipole antenna, 698-960/1710~2690MHZ, 3dBi, SMA plug, US



Antenna Base

■ ADA11000053

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





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