

# I(P)MR-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
- Built-in 4 Gigabit Ethernet managed switch
- PoE model including 4 PoE at/af w/budget 80W
- 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, 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 or 2 RS232 ports
- Dual input voltage 9~56VDC (24V model)
- Vehicle E-marking\*\* certificate
- Environmental monitoring for router inside info with voltage, current, temperature and total POE load; LTE graphic signal strength
- Editable login page of captive portal for hot-spot application
- Optional eSIM chip enables router with versatile data plans\*\*
- Dual image firmware



## OVERVIEW

Lantech I(P)MR-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 (PoE model) + 2 dual speed SFP+ 2 serial ports that supports advanced function of VPN, Load-Balancing, 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, I(P)MR-3204DF 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.

With one mobile LTE module (1L model), 2 SIM card slots, I(P)MR-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 the router can offer 8G/16G/32G capacity.

### Load Balancing with 5 mechanisms for multi-WANs

I(P)MR-3204DF supports Load Balancing for LTE/WAN connections. There are five schemes for Load Balancing function:

Pack	Algorithm	Description
Basic	Fixed	All traffic will be distributed to a single WAN.
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.
	Priority	Select the active WAN according to priority.
	Weighted Round-Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights.
	Custom	Routing through the selected WAN for

Route	each specific traffic, ex: TCP/UDP port number and IP address.
-------	--

**2 port serial connection**

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

**Managed switch Function**

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

**VPN and firewall**

Besides traditional VPN peer to peer tunneling, I(P)MR-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, L2 over GRE, IPGRE, and NAT for various VPN applications.

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

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

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

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

2 sets of DIDO function can support additional high/low physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the router was moved or stolen. In case of events, the I(P)MR-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 switch (PoE model including 4 PoE with 80W budget)**

The I(P)MR-3204DF is able to work from 9VDC to 56VDC (24V Model) and PoE model built-in 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.

**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.

**Optional eSIM\*\***

By replacing physical SIM, optional eSIM chip will allow users to purchase data plans at low prices from local carriers in the world.

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

The I(P)MR-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 I(P)MR-3204DF is best for outdoor community, vehicle, process control automation etc application. For more usage flexibilities, I(P)MR-3204DF supports wide operating temperature from -40°C to 65°C.

**FEATURES & BENEFITS**

- Built-in 4 Gigabit Ethernet managed switch
- PoE model 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
- eSIM\*\* to allow data-plan globally
- Radius Authentication, EAP-TLS, EAP-TTLS, PEAP
- Support Multi-Site VPN for mesh tunneling as well as Open VPN, L2TP over IPsec, IPsec, L2 over GRE , IPGRE and NAT for secured network connection
- Support Routing Protocol: Static route / RIPv2 / OSPF / BGP / EIGRP
- 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 auto-swap/failover/fallback between multiple ISPs for continuous service (four SIM card slots)
- One LTE 4G/3G w/ 2 SIM card design(1L model) for

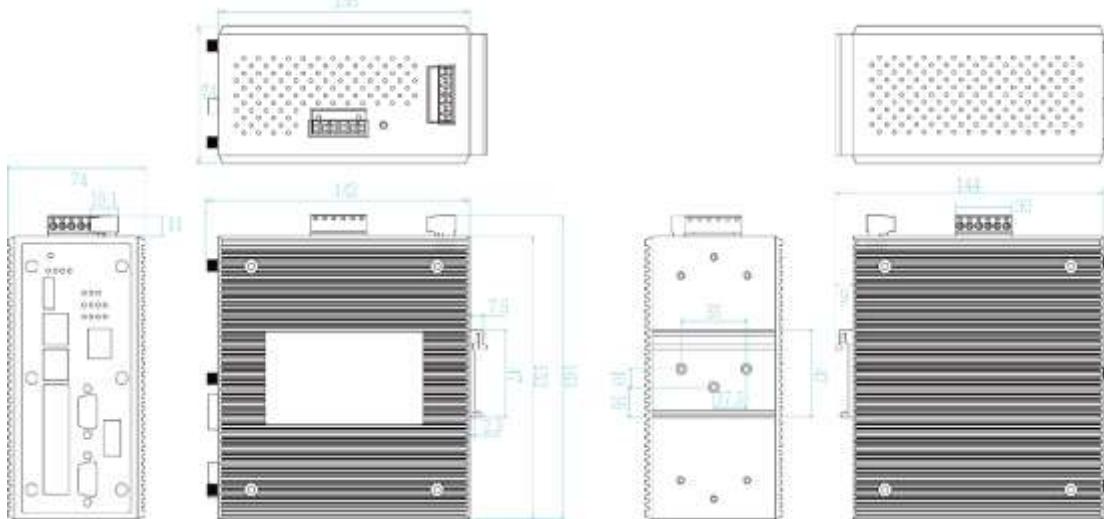
- mobile redundancy
- GPS/ GLONASS (support by LTE module) connection
- Load Balancing supports 5 mechanism between multiple WANs

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.

- 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
- Operation temperature -40~65°C

- Built-in 2 x serial ports(RS232/RS422/RS485)

## DIMENSIONS (unit=mm)



## SPECIFICATION

Location Solutions	GPS, Glonass	IPv6/4	Present
Band Options	<b>Europe &amp; North America (EUNA model)</b> LTE = B1, B2※, B3, B4※, B5※, B7, B8, B12※, B13※, B20, B25※, B26※, B29※, B30※, B41※ (TDD) <b>DC-HSPA+/ HSPA+/ HSPA/ UMTS</b> = B1, B2※, B3, B4※, B5※, B8	VPN	Multi-site VPN, Open VPN, L2TP over IPSec, IPSec, L2 over GRE, IPGRE and NAT
		Firewall	DDoS, IP address filter / Mac address filter / TCP/UDP port number
		Load Balancing	5 schemes for multiple WAN(client mode)
		<b>Basic</b>	
		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-	Evenly distribute the traffic over all working WAN

Robin	links in circular order according to the specified weights	EMMC**	8G 16G 32G
Custom Route	Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address.	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 40 VDC, 200mA
Security	SSH/SSL/HTTPS		
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 name ),VRRP, DDNS		
Routing	Static route / RIPv2 / OSPF / BGP / EIGRP		
Management	SNMP v1,v2c,v3/ Web/Telnet/CLI		
Managed function	QOS, VLAN, Multicast, Redundant protection, security		
Environmental Monitoring	System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status		
Graphic signal display	Graphic LTE signal strength		
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		
Remote Web control	To reboot router by WebUI		
Maintenance	Firmware upgradeable through TFTP/HTTP		
Configuration backup & restore	Supports text configuration file for system quick installation USB port to upload/download configuration by USB dongle		
<b>Physical Ports &amp; System</b>			
Connectors	10/100/1000T: 4x ports RJ 45 (PoE model incl 4 PoE ports) Dual Speed SFP port x 2ports USB x 1 RS-232 connector: 1 x RJ 45 Serial connector : 2 DB9 SIM card slots : 4(2L) or 2(1L) 2L model SMA connector for LTE: 4 (female) SMA connector for GPS: 2 (female) 1L model SMA connector for LTE: 2 (female) SMA connector for GPS: 1 (female) Power & P-Fail connector: 1 x 6-pole terminal block DIDO : 1 x 5-pole terminal block		
Serial Baud Rate	1000Kbps for RS232 ; 12Mbps 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	Input power to I/O: 1.5KV isolation Input power to Ethernet 1.5KV isolation Input power to PoE port 1.5KV isolation (PoE model)		
EMMC**	8G 16G 32G		
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 40 VDC, 200mA		
<b>LED Indicators</b>			
Power & System indicator	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red) , Ring Master(Green), Storage(Green), Serial1/Serial2(Green) ,Ready(Green)		
10/100/1000Base-T(X) port indicator	Link/Activity (Green), Speed (1000T: Yellow; 10/100TX: off), PoE (Green, PoE model)		
SIM	Green for Link/Act		
GPS	Green for Link/Act		
Fault	Red: Ethernet link down or power down		
<b>Fault contact</b>			
Relay	Relay output to carry capacity of 1A at 24VDC		
<b>Power</b>			
Input power	Dual DC input, 9~56VDC (24V model)		
PoE Budget (PoE model)	80W@12V /80W@24V		
Power consumption (Typ.)	30.5 Watts		
<b>Physical Characteristic</b>			
Enclosure	IP 30 Metal case		
Dimension	74 (W) x 142 (D) x 152 (H) mm		
Weight	900g		
<b>Environmental</b>			
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		
<b>Regulatory approvals</b>			
Safety	EN 62368		
EMC	FCC Part 15B Class A, EN 55032: 2015, EN 55024: 2010 IEC 61000-6-2, IEC 61000-6-4		
EMS	IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge), IEC 61000-4-6 (CS), IEC 61000-4-8 (PFMF)		
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		
Vehicle certificate	E13**		
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, B4, B5;

## 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-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-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

### ■ **IPMR-3204DF-1L-2S-24V-EUNA.....P/N: 8682-004**

Industrial One LTE (Dual 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-1L-2SA-24V-EUNA.....P/N: 8682-0041**  
Industrial One LTE (Dual 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-1L-2SB-24V-EUNA.....P/N: 8682-0042**  
Industrial One LTE (Dual 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
- **IMR-3204DF-2L-2S-24V-EUNA.....P/N: 8683-001**  
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; EU and US band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-2L-2SA-24V-EUNA.....P/N: 8683-0011**  
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; EU and US band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-2L-2SB-24V-EUNA.....P/N: 8683-0012**  
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; EU and US band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-1L-2S-24V-EUNA.....P/N: 8683-004**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router managed Ethernet Switch w/2 RS232 serial ports and 4 Giga ports and 2 dual speed SFP; EU and US band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-1L-2SA-24V-EUNA.....P/N: 8683-0041**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router managed Ethernet Switch w/2 RS422 serial ports and 4 Giga ports and 2 dual speed SFP; EU and US band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-1L-2SB-24V-EUNA.....P/N: 8683-0042**  
Industrial One LTE (Dual SIM) Load Balancing Multifunction Router managed Ethernet Switch w/2 RS485 serial ports and 4 Giga ports and 2 dual speed SFP; EU and US band; dual input 9~56VDC; -40~65C

#### EMMC Flash Storage

- **8G.....P/N: 8850-113**
- **16G.....P/N: 8850-114**
- **32G.....P/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°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)
- **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)

■ <b>8330-162D-V1</b>	MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver	■ <b>8330-189D-V1</b>	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550)
■ <b>8330-163D-V1</b>	MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver	■ <b>8330-186D-V1</b>	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310)
■ <b>8330-165D-V1</b>	MINI GBIC 1000LX (LC/SM/10KM) Transceiver	■ <b>8330-187D-V1</b>	1.25Gbps BiDi SFP 20KM Transceiver (WDM 1550)
■ <b>8340-0591D-V1</b>	MINI GBIC 1000LHX (LC/SM/40KM) Transceiver	■ <b>8330-180D-V1</b>	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1310)
■ <b>8330-166D-V1</b>	MINI GBIC 1000XD (LC/SM/50KM) Transceiver	■ <b>8330-182D-V1</b>	1.25Gbps BiDi SFP 40KM Transceiver (WDM 1550)
■ <b>8330-169D-V1</b>	MINI GBIC 1000XD (LC/SM/60KM) Transceiver	■ <b>8330-181D-V1</b>	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1310)
■ <b>8330-167D-V1</b>	MINI GBIC 1000ZX (LC/SM/80KM) Transceiver	■ <b>8330-183D-V1</b>	1.25Gbps BiDi SFP 60KM Transceiver (WDM 1550)
■ <b>8330-170D-V1</b>	MINI GBIC 1000EZX (LC/SM/120KM) Transceiver	■ <b>8330-184D-V1</b>	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1490)
■ <b>8330-168-V1</b>	MINI GBIC 10/100/1000T (100m) Transceiver	■ <b>8330-185D-V1</b>	1.25Gbps BiDi SFP 80KM Transceiver (WDM 1550)
■ <b>8330-060D-V1</b>	MINI GBIC 100Base (LC/MM/2KM) Transceiver	■ <b>8330-071D-V1</b>	125Mbps BiDi SFP 2KM (WDM 1310) Transceiver
■ <b>8330-065D-V1</b>	MINI GBIC 100Base (LC/MM/5KM) Transceiver	■ <b>8330-072D-V1</b>	125Mbps BiDi SFP 2KM (WDM 1550) Transceiver
■ <b>8330-061D-V1</b>	MINI GBIC 100Base (LC/SM/30KM) Transceiver	■ <b>8330-069D-V1</b>	125Mbps BiDi SFP 20KM (WDM 1310) Transceiver
■ <b>8330-197D-V1</b>	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310)	■ <b>8330-068D-V1</b>	125Mbps BiDi SFP 20KM (WDM 1550) Transceiver
■ <b>8330-198D-V1</b>	1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550)	■ <b>8330-080D-V1</b>	125Mbps BiDi SFP 40KM (WDM 1310) Transceiver
■ <b>8330-195D-V1</b>	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310)	■ <b>8330-082D-V1</b>	125Mbps BiDi SFP 40KM (WDM 1550) Transceiver
■ <b>8330-196D-V1</b>	1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550)	■ <b>8330-081D-V1</b>	125Mbps BiDi SFP 60KM (WDM 1310) Transceiver
■ <b>8330-188D-V1</b>	1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310)	■ <b>8330-083D-V1</b>	125Mbps BiDi SFP 60KM (WDM 1550) Transceiver
		■ <b>8330-084D-V1</b>	125Mbps BiDi SFP 80KM (WDM 1310) Transceiver
		■ <b>8330-085D-V1</b>	125Mbps BiDi SFP 80KM (WDM 1550) Transceiver

■ **8330-191D-V1** Dual Speed SFP 100M/1000M-LX 10KM  
Transceiver

All SFP# ended with D are with DDM function

#### Management System

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

#### GPS Antenna

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



#### Cellular Antenna

■ **ANT11000041** 2G/3G/4G dipole antenna, 791-960/1710~2170/2500~2700MHz, 3dBi, SMA plug, EU



■ **ANT11000042** 2G/3G/4G dipole antenna, 704-960/1710~2170MHz, 3dBi, SMA plug, US



■ **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



#### Lantech Communications Global Inc.

[www.lantechcom.tw](http://www.lantechcom.tw)  
[info@lantechcom.tw](mailto:info@lantechcom.tw)

© 2025 Copyright Lantech Communications Global Inc, all rights reserved. Updated on 05 AUG 2025

The revise authority rights of product specifications belong to Lantech Communications Global, Inc.

In a continuing effort to improve and advance technology, product specifications are subject to change without notice.