

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 (APAC & EUNA models) or Cat 12/9/13 (WW model)
- 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 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
- 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 & 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, 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 Route	Routing through the selected WAN for 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 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, 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.

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.

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

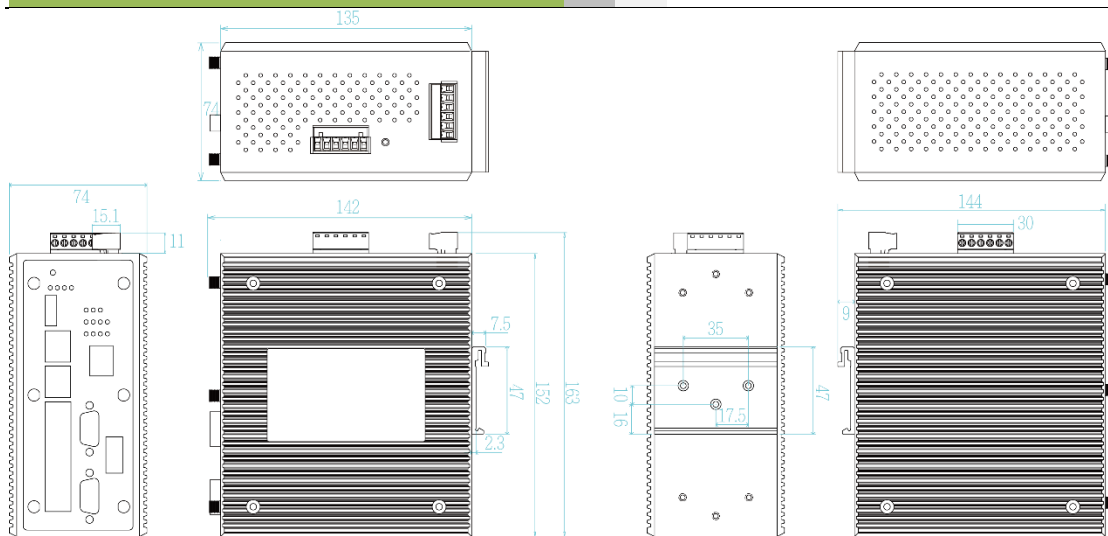
- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number
- NAT/DMZ/Port Forwarding
- Support SNMP v1/v2c/v3
- Dual concurrent LTE 4G/3G design (2L model)for auto-swap/failover/failback between multiple ISPs for continuous service (four SIM card slots)
- One LTE 4G/3G w/ 2 SIM card design(1L model) for mobile redundancy
- GPS/ GLONASS (support by LTE module) connection
- Load Balancing supports 5 mechanism between multiple WANs

	port number and IP address.
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- 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

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

DIMENSIONS (unit=mm)



SPECIFICATION

Location Solutions	GPS, Glonass (EUNA/Americas) GPS, Glonass, Beidou, Galileo (APAC model only)	DC-HSPA+/ HSPA+/ HSPA/ UMTS = B1, B5*, B6*, B8, B9*, B19*
Band Options	Asia-Pacific (APAC model) LTE = B1, B3, B5*, B7, B8, B18*, B19*, B21*, B28, B38 (TDD), B39* (TDD), B40 (TDD), B41* (TDD)	Europe & North America (EUNA model) LTE = B1, B2*, B3, B4*, B5*, B7, B8, B12*, B13*, B20, B25*, B26*, B29*, B30*, B41* (TDD)

	<p>DC-HSPA+/ HSPA+/ HSPA/ UMTS = B1, B2※, B3, B4※, B5※, B8</p> <p>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※</p>	
Data Rates – LTE	<p>Asia-Pacific (APAC model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps</p> <p>Europe & North America (EUNA model) Downlink (Cat 6): FDD: 300 Mbps TDD: 222 Mbps Uplink (Cat 6): FDD: 50 Mbps TDD: 26 Mbps</p> <p>World Wide (WW model) Downlink: Cat 12: 600 Mbps Cat 9: 450 Mbps Uplink: Cat 13: 150 Mbps</p>	<p>dongle</p>
Software		Physical Ports & System
IPv6/4	Present	Connectors
VPN	Multi-site VPN, Open VPN, L2TP over IPSec, IPSec, L2 over GRE, IPGRE and NAT	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
Firewall	DDoS, IP address filter / Mac address filter / TCP/UDP port number	Serial Baud Rate
Load Balancing	5 schemes for multiple WAN(client mode)	Serial Data Bits
Basic		Serial Parity
Fixed	All traffic will be distributed to a single WAN.	Serial Stop Bits
Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.	RS-232
Priority	Select the active WAN according to priority.	RS-422
Weighted Round-Robin	Evenly distribute the traffic over all working WAN links in circular order according to the specified weights	RS-485 (2-wire)
Custom Route	Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address.	Isolation protection
Security	SSH/SSL/HTTPS	EMMC**
Login Security	Supports IEEE802.1x Authentication/RADIUS	DI/DO
Access Security	HTTP/HTTPS/Telnet/SSH & Administration; SNMP v1/v2/v3 access for authentication via MD5/SHA(v3) and Encryption via DES/AES(v3)	LED Indicators
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	Power & System indicator
Routing	Static route / RIPv2 / OSPF / BGP / EIGRP	10/100/1000Base-T(X) port indicator
Management	SNMP v1,v2c,v3/ Web/Telnet/CLI	SIM
Managed function	QOS, VLAN, Multicast, Redundant protection, security	GPS
Environmental Monitoring	System status for input voltage, current , ambient temperature to be shown in GUI and sent alerting if any abnormal status	Fault
Graphic signal display	Graphic LTE signal strength	Fault contact
Timer	Built-in Real Time Clock to keep track of time always(RTC)	Relay
Discovery	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	Power
SNMP trap	Device cold / warm start Port link up / link down DI/DO high / low	Input power
Remote Web control	To reboot router by WebUI	PoE Budget (PoE model)
Maintenance	Firmware upgradeable through TFTP/HTTP	Power consumption (Typ.)
Configuration backup & restore	Supports text configuration file for system quick installation USB port to upload/download configuration by USB	Physical Characteristic
		Enclosure
		Dimension
		Weight
		Environmental
		Storage Temperature
		Operating Temperature
		Operating Humidity
		Regulatory approvals
		Safety
		EMC
		EMS
		Radio Frequency

	EN 62311
Vehicle certificate	E13** ITxPT compliant**
MTBF	NA
Warranty	5 years

*Future Release

**Optional

※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;
(EUNA not listed bands) LTE = B2, B4, B5, B12, B13, B25, B26, B29, B30, B41
WCDMA = B2, B4, B5;
(WW not listed bands) LTE = B2, B4, B5, B9, B12, B13, B18, B19, B26, B29, B30, B32,
B41, B42, B43, B46, B48, B66
WCDMA = B2, B3, B4, B5, B6, B9, B19

ORDERING INFORMATION

For 24V model are all available with –IGN model name (w/ ignition)

- **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
- **IPMR-3204DF-2L-2SB-24V-APAC.....P/N: 8682-0022**
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; APAC band; dual input 9~56VDC; -40~65C
- **IPMR-3204DF-2L-2SB-24V-WW.....P/N: 8682-0032**
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; Worldwide 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-2S-24V-APAC.....P/N: 8682-005**
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; APAC band; dual input 9~56VDC; -40~65C
- **IPMR-3204DF-1L-2S-24V-WW.....P/N: 8682-006**
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; Worldwide 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-2SA-24V-APAC.....P/N: 8682-0051**
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; APAC band; dual input 9~56VDC; -40~65C
- **IPMR-3204DF-1L-2SA-24V-WW.....P/N: 8682-012**
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; Worldwide 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
- **IPMR-3204DF-1L-2SB-24V-APAC.....P/N: 8682-0052**
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; APAC band; dual input 9~56VDC; -40~65C
- **IPMR-3204DF-1L-2SB-24V-WW.....P/N: 8682-0121**
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; Worldwide 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-2S-24V-APAC.....P/N: 8683-002**
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; APAC band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-2L-2S-24V-WW.....P/N: 8683-003**
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; worldwide 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-2SA-24V-APAC.....P/N: 8683-0021**
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; APAC band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-2L-2SA-24V-WW.....P/N: 8683-0031**
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; Worldwide band; dual input 9~56VDC; -40~65C
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- **IMR-3204DF-2L-2SB-24V-WW.....P/N: 8683-0032**
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; Worldwide 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-2S-24V-APAC.....P/N: 8683-005**
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; APAC band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-1L-2S-24V-WW.....P/N: 8683-006**
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; Worldwide 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-2SA-24V-APAC.....P/N: 8683-0051**
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; APAC band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-1L-2SA-24V-WW.....P/N: 8683-0061**
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; Worldwide 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
- **IMR-3204DF-1L-2SB-24V-APAC.....P/N: 8683-0052**
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; APAC band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-1L-2SB-24V-WW.....P/N: 8683-0062**
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; Worldwide band; dual input 9~56VDC; -40~65C
- **IMR-3204DF-2L-2S-HV-EUNA.....P/N: 8683-007**
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; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-2L-2S-HV-APAC.....P/N: 8683-008**
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; APAC band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-2L-2S-HV-WW.....P/N: 8683-009**
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; worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-2L-2SA-HV-EUNA.....P/N: 8683-0071**
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; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-2L-2SA-HV-APAC.....P/N: 8683-0081**
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; APAC band; single high power 90~305VAC / 120~430VDC; -40~65C

- **IMR-3204DF-2L-2SA-HV-WW.....P/N: 8683-0091**
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; Worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-2L-2SB-HV-EUNA.....P/N: 8683-0072**
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; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-2L-2SB-HV-APAC.....P/N: 8683-0082**
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; APAC band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-2L-2SB-HV-WW.....P/N: 8683-0092**
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; Worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2S-HV-EUNA.....P/N: 8683-010**
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; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2S-HV-APAC.....P/N: 8683-011**
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; APAC band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2S-HV-WW.....P/N: 8683-012**
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; Worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2SA-HV-EUNA.....P/N: 8683-0101**
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; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2SA-HV-APAC.....P/N: 8683-0111**
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; APAC band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2SA-HV-WW.....P/N: 8683-0121**
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; Worldwide band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2SB-HV-EUNA.....P/N: 8683-0102**
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; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2SB-HV-APAC.....P/N: 8683-0112**
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; APAC band; single high power 90~305VAC / 120~430VDC; -40~65C
- **IMR-3204DF-1L-2SB-HV-WW.....P/N: 8683-0122**
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; Worldwide band; single high power 90~305VAC / 120~430VDC; -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)

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

- **8330-187** LTSFP-1000BX-20KM Transceiver (WDM 1550)
- **8330-180** LTSFP-1000BX-40KM Transceiver (WDM 1310)
- **8330-182** LTSFP-1000BX-40KM Transceiver (WDM 1550)
- **8330-181** LTSFP-1000BX-60KM Transceiver (WDM 1310)
- **8330-183** LTSFP-1000BX-60KM Transceiver (WDM 1550)
- **8330-184** LTSFP-1000BX-80KM Transceiver (WDM 1490)
- **8330-185** LTSFP-1000BX-80KM Transceiver (WDM 1550)
- **8330-262** MINI GBIC 2.5G 850nm VCSEL (LC/0.3km) Transceiver
- **8330-263** MINI GBIC 2.5G 1310nm FP (LC/2km) Transceiver
- **8330-265** 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

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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