FIBERROAD

FR-7M3204P
4x10/100/1000Base-T + 2x1000Base-X SFP / 4xPoE

FR-7M3204P is a new generation industrial Power over Ethernet Managed switch with 4-Port 10/100/1000Base-TX and 2-Port 1000Base-FX Fast SFP that provide stable and reliable Ethernet transmission offered by Fiberroad, with high quality design and reliability. It is positioning in the broadband network intervention market, to offer and realize Ethernet data exchange, convergence and long-distance optical transmission with efficient bandwidth and reliable fiber optic network solutions for users. The industrial switch complies with various characteristics such as mini size, no fan, low power consumption, high reliability and stability, and easy to maintain.

With dual power input design, FR-7M3204P can offer redundant mechanisms for critical applications that need always-on connections. It can also operate either at standard operating temperature range -40 to 75°C. Housed in rugged DIN rail or wall mountable IP40 enclosures, these switches are perfect choices for harsh environments, such as industrial networking, intelligent transportation systems (ITS) and are also suitable for many military and utility market applications where environmental conditions exceed commercial product specifications.

Buffer	Management	DIN Rail	Redundant	RING	PoE
4M	GUI	IP40			802.3at 802.3af

Features

- 4x10/100/1000Base-TX RJ45 ports, 2x1000Base-FX Fast SFP ports, 4xPoE
- Support Auto-MDIX, and full/half duplex self-negotiation mode
- Provide SC/FC/ST/LC interface fiber port, support single/dual fiber transmission
- Support 16K bytes giant frame, compatible with various extension protocol
- 8K MAC address table
- Support IEEE802.3az energy efficient Ethernet technology
- Support IPv6 Protocol
- Electric 4KV surge protection, easy to use in outdoor environment
- Complete status indicator, working state at a glance
- Power input polarity protection design, no worry about wrong operation
- Metal case, no fan design
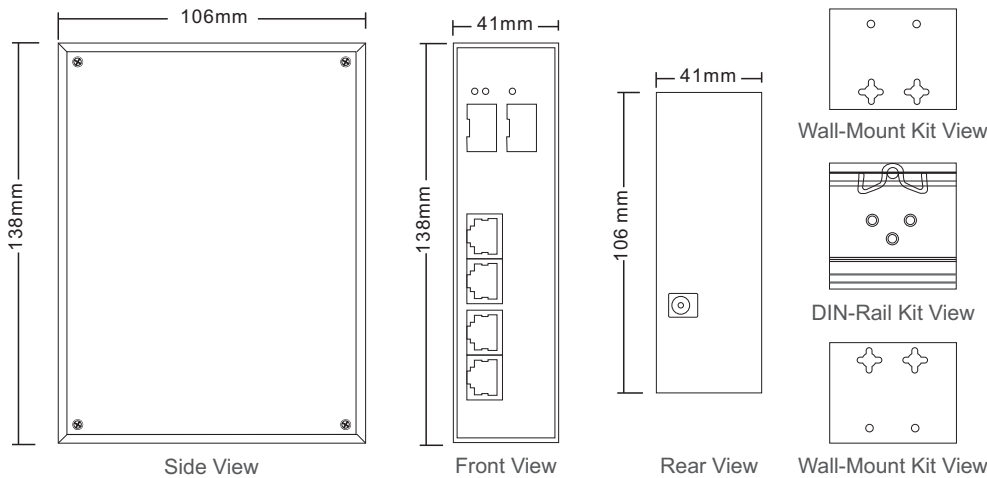- Installation method: DIN trail /Wall mounting

Specification

Physical Port

RJ45 port and speed	4x10/100/1000Base-TX/4xPoE
Fiber port and speed	2x1000Base-FX SFP

Parameters

Ethernet standards	IEEE802.3 IEEE802.3u IEEE802.3z IEEE802.3ab IEEE802.3x IEEE802.3az IEEE802.3Qad IEEE802.3ah IEEE802.1X IEEE802.1Q IEEE1588
Packet buffer	4Mbits
Maximum packet length	Up to 1532Bytes
MAC address table	8K
Transmission mode	Store and Forward(full/half duplex mode)
Exchange property	Delay time: < 7μs Backplane bandwidth: 1Gbps Packet forwarding rate: 148810 (64Byte)

PoE

PoE standard	4x IEEE 802.3af /IEEE 802.3at PoE
Power budget	Max. PoE output power budget 30W

LED Indicator

Power	Connect-always
RJ45	Link/Act: connect-always; data exchange-twinkle Speed light: 100Mbps-always; 10Mbps-twinkle
Fiber	Link/Act: connect-always; data exchange-twinkle

Power Information

Power access mode	Phoenix terminal, DC seat
Redundant power input	DC 9-56V
Overload protection	Yes
Power reverse	Support
Power consumption	Full-load<15W

Physical Property

Protection grade	IP40 aluminum case
Cooling mode	Natural cooling, no fan design
Dimensions	138mm x 106mm x 41mm (L x W x H)
Installation mode	DIN trail/wall-mountable
Weight	600g

Working Environment

Operating Temperature	-40°C~75°C
Operating Humidity	5%~90% non-condensing
Storage Temperature	-40°C~85°C

Warranty

MTBF	500,000 hours
Defects Liability Period	3 year warranty, lifetime technical support

Certification Standard

EMI	FCC Part15 Subpart B Class A,EN 55022 Class A
EMS	EN61000-4-2(ESD), EN61000-4-3(RS), EN61000-4-4(EFT), EN61000-4-5(Surge), EN61000-4-6(CS), EN61000-4-8, EN61000-4-11
Collision	IEC60068-2-27
Drop	IEC60068-2-32
Vibration	IEC60068-2-6
Safety grade	EN60950-1

Specifications & design are subject to change without prior notice. Please visit Fiberroad website for more details.

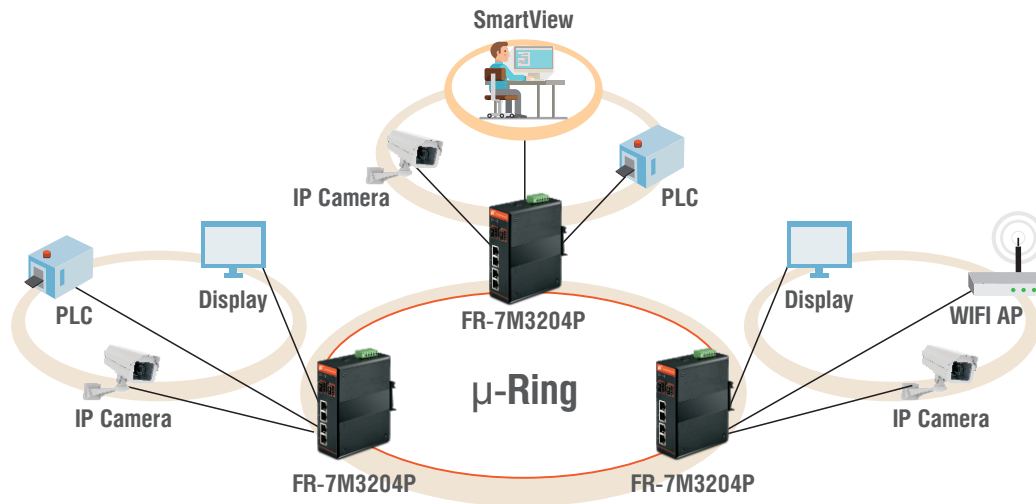| Software Features	Redundant nework: STP/RSTP
	Multicast: IGMP Snooping V1/V2
	VLAN: IEEE 802.1Q 4K VLAN, QINQ
	Link Aggregation: manual
	Management Function: CLI/WEB/SNMP
	Diagnostic Maintenance: Port mirroring, Ping
	Alarm management: 1 way relay alarm output, RMON, SNMP Trap
	Security: DHCP Snooping, User hierarchical management
	Data control Port-based ingress/egress speed limit, Full duplex IEEE 802.3x, half duplex back-pressure flow control. Broadcast storm suppression, Unknown-Multicast suppression and Unknown-Unicast suppression

Dimensions

106mm

138mm

Side View

41mm

138mm

Front View

41mm

106 mm

Rear View

Wall-Mount Kit View

DIN-Rail Kit View

Wall-Mount Kit View

Package List

- 1 x Fiber Switch
- 1 x Rail Mounting Kit
- 1 x Wall Mount Kit
- 1 x Warranty Card

Application

SmartView

IP Camera

PLC

FR-7M3204P

PLC

Display

IP Camera

FR-7M3204P

µ-Ring

Display

WIFI AP

IP Camera

FR-7M3204P

Order Information

Model Number	Port Description
FR-7M3204	Gigabit Central Ethernet Switch, managed, 4x10/100/1000Base-TX + 2x1000Base-FX SFP
FR-7M3204P	Gigabit Central Ethernet PoE Switch, managed, 4x10/100/1000Base-TX + 2x1000Base-FX SFP / 4xPoE
FR-7M3208	Gigabit Central Ethernet Switch, managed, 8x10/100/1000Base-TX + 2x1000Base-FX SFP
FR-7M3208P	Gigabit Central Ethernet PoE Switch, managed, 8x10/100/1000Base-TX + 2x1000Base-FX SFP / 8xPoE

*Fiber port can add 1*9 module. RJ45 port with PoE optional.

Gigabit Industrial PoE Switch

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