FR-7M3408

8x10/100/1000Base-TX +
4x 100/1000Base-FX SFP

| Management SNMP | Management GUI | ERPS | Industrial -40℃/75℃ | Buffer 4M | DIN Rail IP40 |

Brief introduction

FR-7M3408 is a new generation industrial Power over Ethernet Managed switch with 8-Port 10/100/1000Base-TX and 4-Port 100/1000Base-FX 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-7M3408 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.

Features

> 8x10/100/1000Base-TX RJ45 ports, 4x100/1000Base-FX SFP ports

> Support Auto-MDIX, and full/half duplex self-negotiation mode

> Provide SC/FC/ST/LC interface fiber port, support single/dual fiber transmission

> Support 10K bytes giant frame, compatible with various extension protocol

> 8K MAC address table

> Support IEEE802.3az energy efficient Ethernet technology

> Electric 8KV 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
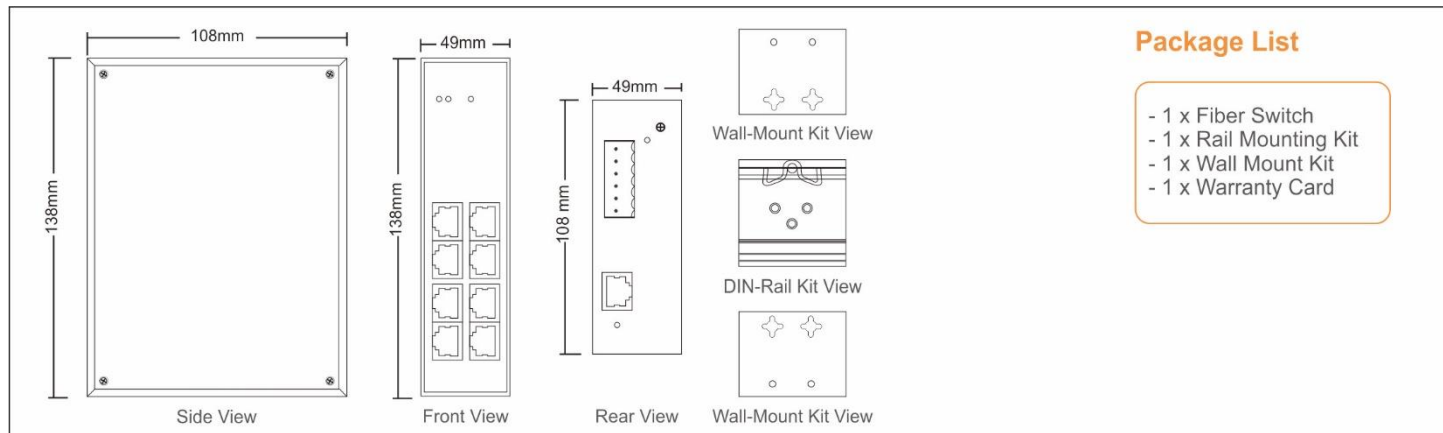
Specification

Physical Port	
RJ45 Port and Speed	8x10/100/1000Base-TX
Fiber Port and Speed	4x100/1000Base-FX SFP
Parameters	

Ethernet Standards	IEEE802.3 IEEE802.3u IEEE802.3z IEEE802.3ab IEEE802.3x IEEE802.3az IEEE802.3ah IEEE802.1X IEEE802.1Q
Packet Buffer	4M
Maximum Packet Length	Up to 10KBytes
MAC Address Table	8K
Transmission Mode	Store and Forward (full/half duplex mode)
Exchange Property	Delay time: < 7μs Backplane bandwidth: 24G; Packet forwarding rate: 17.856Mpps
PoE (Optional)	
PoE Standard	8x IEEE 802.3af/IEEE 802.3at PoE
Power Budget	Max. PoE output power budget 30W per port
LED Indicator	
Power	Connect-always
RJ45	Link/Act: connect-always; data exchange-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**

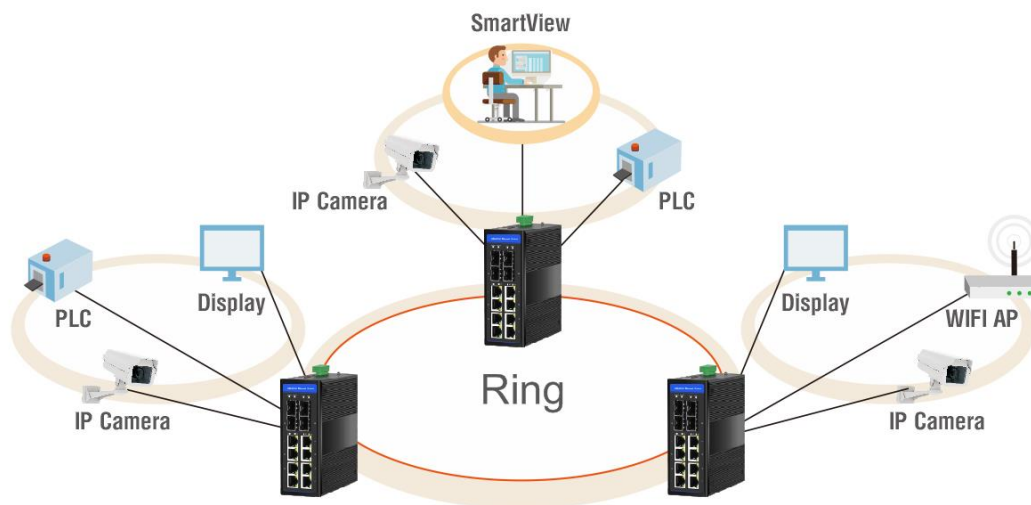| Power Reverse	Support
Power Consumption	Full-load<15W
Physical Property	
Protection Grade	IP40 aluminum case
Cooling Mode	Natural cooling, no fan design
Dimensions	138mm x 108mm x 49mm (L x W x H)
Installation Mode	DIN trail/wall-mountable
Weight	600g (With PoE: 650g)
Working Environment	
Operating Temperature	-40℃~75℃
Operating Humidity	5%~90% non-condensing
Storage Temperature	-40℃~85℃
Warranty	
MTBF	500,000 hours
Defects Liability Period	3 year warranty, lifetime technical support
Certification Standard	
EMC	FCC Part15 Class A CE-EMC/LVD RoHS 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
Vibration	IEC60068-2-6 -40~75℃ High and Low Temperature Test IP40 Protection Test

Dimensions

108mm

138mm

Side View

49mm

138mm

Front View

49mm

108 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

Specification

Software Features	Redundant network: STP, RSTP, MSTP, IT-T G.8032 Ethernet Ring Protection Switching (ERPS) for redundant cabling
	ERPS/ Ring for Redundant Cabling, recovery time<20ms in 250 devices
	Multicast: IGMP snooping V1/V2/V3
	VLAN: IEEE 802.1Q 4K VLAN, GVRP, GMRP, QINQ
	Link Aggregation: Dynamic IEEE 802.3ad LACP Link Aggregation, Static Link Aggregation
	Management Function: CLI, Web based management, SNMP v1/v2c/v3, Telnet/SSH server for management
	Diagnostic Maintenance: Port mirroring, Ping
	Alarm management: 1 way relay alarm output, RMON, SNMP Trap RMON, MIB II, Port mirroring, Event syslog, DNS, SNTP, IEEE 802.1ab LLDP
	Security: DHCP Server/Client/Relay option 82/Snooping User hierarchical management
	Flexibility security: Port based and MAC based IEEE 802.1X, ACL, HTTP/HTTPS, SSL/SSH v2 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
	Software upgrade via HTTP, redundant firmware to avoid upgrade failure

Application

Order Information

Model Number	Port Description
FR-7M3408	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 4 x 100/1000M Base-FX SFP
FR-7M3204	Managed, Industrial Ethernet Switch, 4 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP
FR-7M3108	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 1 x 100/1000M Base-FX SFP
FR-7M3208	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP
FR-7M3408P	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 4 x 100/1000M Base-FX SFP/ 8xPoE
FR-7M3204P	Managed, Industrial Ethernet Switch, 4 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP/ 4xPoE
FR-7M3108P	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 1 x 100/1000M Base-FX SFP/ 8xPoE
FR-7M3208P	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP/ 8xPoE

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