

# OC-7M3108

## 8x10/100/1000Base-TX + 1x100/1000Base-FX SFP



### Brief Introduction

OC-7M3108 is a new generation industrial Power over Ethernet Managed switch with 8-Port 10/100/1000Base-TX and 1-Port 100/1000 Base-FX Fast SFP that provide stable and reliable Ethernet Transmission offered by Opticombine 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, OC-7M3108 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, 1x100/1000Base-FX Fast 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
- > Support IPv6 Protocol
- > 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 rail /Wall mounting

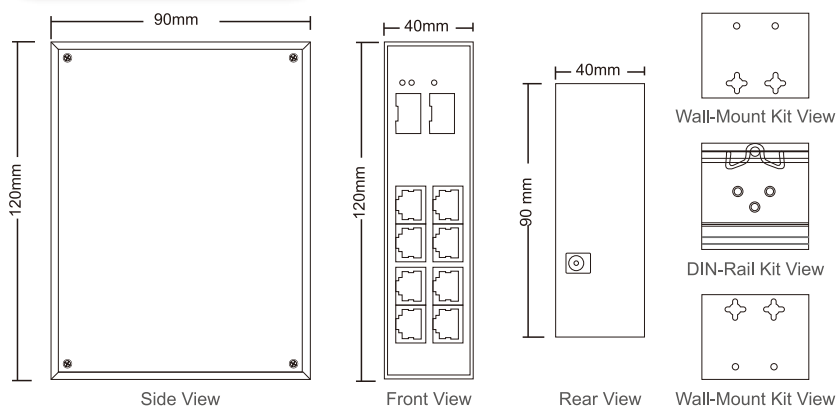
### Specification

Physical Port	
RJ45 Port and Speed	8x10/100/1000Base-TX
Fiber Port and Speed	1x100/1000Base-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	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: 20G; Packet forwarding rate: 13.392Mpps
PoE (Optional)	
PoE Standard	8x IEEE 802.3af/IEEE 802.3at PoE
Power Budget	Max. PoE output power budget 30W

## Specification

<b>LED Indicator</b>	
Power	Connect-always
RJ45	Link/Act: connect-always; data exchange-twinkle
Fiber	Link/Act: connect-always; data exchange-twinkle
<b>Power Information</b>	
Power Access Mode	Phoenix terminal, DC seat
Redundant Power Input	DC 9-56V
Overload Protection	Yes
Power Reverse	Support
Power Consumption	Full-load<15W
<b>Physical Property</b>	
Protection Grade	IP40 aluminum case
Cooling Mode	Natural cooling, no fan design
Dimensions	120mm x 90mm x 40mm (L x W x H)
Installation Mode	DIN trail/wall-mountable
Weight	550g (With PoE: 600g)
<b>Working Environment</b>	
Operating Temperature	-40°C~75°C
Operating Humidity	5%~90% non-condensing
Storage Temperature	-40°C~85°C
<b>Warranty</b>	
MTBF	500,000 hours
Defects Liability Period	3 year warranty, lifetime technical support
<b>Certification Standard</b>	
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°C High and Low Temperature Test IP40 Protection Test

## Dimensions



### 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

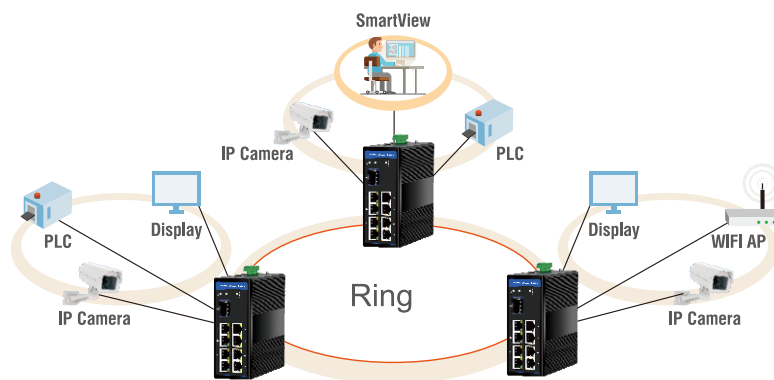
Alarm management: 1 way relay alarm output, RMON, SNMP Trap  
RMON, MIB II, Port mirroring, Event syslog, DNS, SNTP, IEEE 802.1ab LLDP

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
OC-7M2208	Managed, Industrial Ethernet Switch, 8 x 10/100M Base-TX + 2 x 100/1000M Base-FX SFP
OC-7M3102	Managed, Industrial Ethernet Switch, 1 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP
OC-7M3204	Managed, Industrial Ethernet Switch, 4 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP
OC-7M3108	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 1 x 100/1000M Base-FX SFP
OC-7M3208	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP
OC-7M2208P.	Managed, Industrial Ethernet Switch, 8 x 10/100M Base-TX + 2 x 100/1000M Base-FX SFP/ 8xPoE
OC-7M3102P.	Managed, Industrial Ethernet Switch, 1 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP/ 2xPoE
OC-7M3204P.	Managed, Industrial Ethernet Switch, 4 x 10/100/1000M Base-TX + 2 x 100/1000M Base-FX SFP/ 4xPoE
OC-7M3108P.	Managed, Industrial Ethernet Switch, 8 x 10/100/1000M Base-TX + 1 x 100/1000M Base-FX SFP/ 8xPoE
OC-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.