# OC-7M2208

## 8x10/100Base-TX + 2x100/1000Base-FX SFP

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

## Brief Introduction

With dual power input design, OC-7M2208 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

> 8x10/100Base-TX RJ45 ports, 2x100/1000Base-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
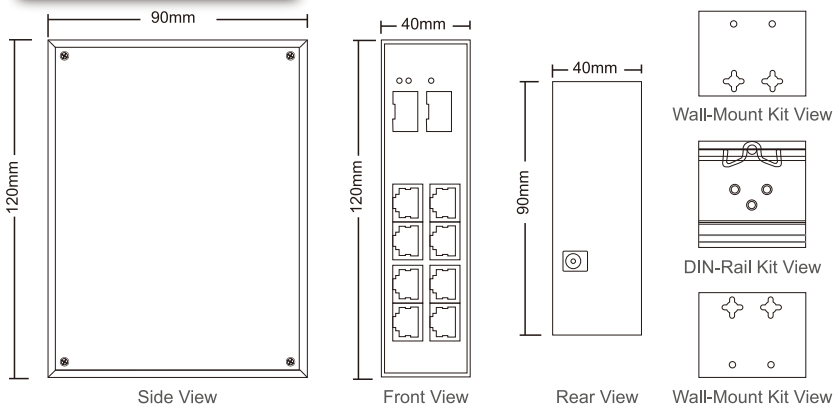> Installation method: DIN trail /Wall mounting

## Specification

| Physical Port | |
|---|---|
| RJ45 Port and Speed | 8x10/100Base-TX |
| Fiber Port and Speed | 2x100/1000Base-FX SFP |
| **Parameters** | |
| Ethernet Standards | IEEE802.3 IEEE802.3u IEEE802.3z<br>IEEE802.3ab IEEE802.3x IEEE802.3az<br>IEEE802.3Qad IEEE802.3ah IEEE802.1X<br>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<br>Backplane bandwidth: 20G;  Packet forwarding rate: 4.1664Mpps |
| **PoE (Optional)** | |
| PoE Standard | 8x IEEE 802.3af/IEEE 802.3at PoE |
| Power Budget | Max. PoE output power budget 30W |

## Specification

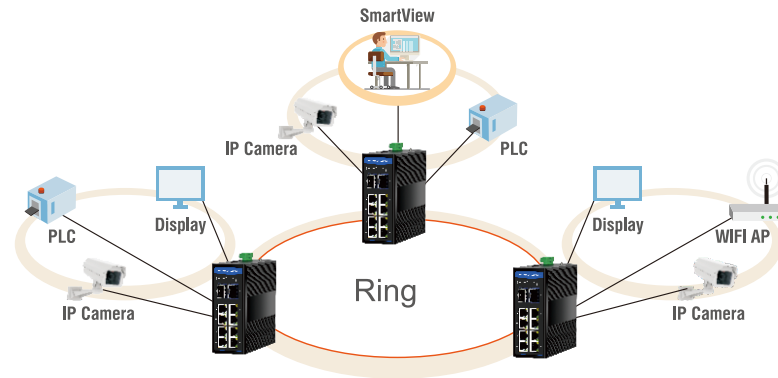| LED Indicator | |
|---|---|
| Power | Connect-always |
| RJ45 | Link/Act: connect-always; data exchange-twinkle |
| Fiber | Link/Act: connect-always; data exchange-twinkle |
| **Power Information** | |
| Power Access Mode | Phoenix terminal, DC seat |
| Redundant Power Input | DC 9-56V |
| Overload 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 | 120mm x 90mm x 40mm (L x W x H) |
| Installation Mode | DIN trail/wall-mountable |
| Weight | 600g (With PoE: 650g) |
| **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** | |
| EMC | FCC Part15 Class A<br>CE-EMC/LVD<br>RoHS<br>EN61000-4-2 (ESD), EN61000-4-3 (RS)<br>EN61000-4-4 (EFT), EN61000-4-5 (Surge)<br>EN61000-4-6 (CS), EN61000-4-8<br>EN61000-4-11 |
| Vibration | IEC60068-2-6<br>-40~75°C High and Low Temperature Test<br>IP40 Protection Test |

## Dimensions



90mm

120mm

Side View

40mm

120mm

Front View

40mm

90mm

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:<br>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<br>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<br>Data control Port-based ingress/egress speed limit, Full duplex IEEE 802.3x,<br>half duplex back-pressure flow control.<br>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-7M3202 | Managed, Industrial Ethernet Switch, 2 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-7M3202P | Managed, Industrial Ethernet Switch, 2 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.