

Series 7 Managed 9-56V Network Switch

SIL 73208MP-12V



Industrial Gigabit PoE+
Managed Switch



OVERVIEW

The SilverNet Industrial 73208MP-12V Gigabit PoE+ Managed Switch is a fully managed layer 2 Switch, offering an ideal solution for deployment in harsh environments thanks to its rugged industrial design.

With an input voltage range of 9vdc to 56vdc this device offers up to PoE+ on all 8 ports across the whole voltage range. It has a total PoE budget of 240 watts.

The Switch has several intelligent features, including a dual input design, no fan, low power consumption, overcurrent protection, and high reliability.

The SilverNet Industrial Gigabit PoE+ Managed Switches offer a versatile solution for extending Ethernet over distance through fibre daisy chain. This negates the need for separate power supplies for IP video cameras and wireless access points. These Switches also have an extended temperature range, allowing them to operate effectively in outdoor cabinets and harsh industrial environments.

In compliance with the IEEE802.3af/at standard, Power-over-Ethernet delivery over twisted pair cables is possible.

The switch also includes fibre optics ports with a modular SFP slot that supports any type of MSA-compliant pluggable 1.25Gbps SFP transceiver.

Features

- 8 x 10/100/1000Base-T
 - 2 x 1000Base-FX SFP slots
 - 20Gbps bandwidth
 - IEEE803.af/at compliant
 - RJ45 supports auto MDI/MDI-X function
 - Auto negotiation speed, half/full duplex
 - Store and forward
 - Max packet size: 10K bytes
 - MAC address size: 8K
- Wide range power design with PoE Out (9~56VDC)
 - Operating temperature (-40°C ~+75°C)
 - Resettable fuse to protect against overcurrent
 - Reverse Polarity Protection
 - DIN Rail or wall mountable
 - EFT protection for power line
 - Ethernet ESD protection
 - IP40 Protection
 - Rugged

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Technical Specifications

Part No.	SIL 73208MP-12V
Ports	
Total ports	10 ports
Gigabit Ethernet	8 ports
Gigabit Fibre	2 SFP
Number of PoE ports	8 ports
Max output per port	30W
Performance	
Switch Bandwidth	20Gbps
MAC address size	8K
Processing type	Store and Forward
Time delay	<10µs
Jumbo Frames	10K bytes
Packet buffer space	4Mbit
Power	
Power input	9~56VDC with PoE Output, Redundant (2 Inputs Available)
Power consumption	<10W (Excluding PoE)
Standards	
Standards	G.8032 (ERPS) IEEE.802.3, IEEE802.3u, IEEE802.3z, IEEE802.3x, IEEE802.3ad, IEEE802.1p, IEEE802.1x, IEEE802.3ab, IEEE802.1Q, IGMP snooping
EMC	UKCA BS EN 55032:2015/A11:2020 UKCA BS EN IEC 61000-3-2:2019+A1:2023 UKCA BS EN 61000-3-3:2013/A2:2023 UKCA BS EN 55035:2017/A11:2020
EMI	FCC Part 15 Class A
EMS	IEC 61000-4-2 (ESD): Level 4 (8K/15K) IEC 61000-4-3 (RS): Level 3 (10V/m) IEC 61000-4-4 (EFT): Level 3 (1V/2V) IEC 61000-4-5 (surge): Level 3 (4KV/2KV) IEC 61000-4-6 (RF coupling): (10V/m) IEC61000-4-8 (Power Frequency Magnetic Field):Level 4 (30A/m)
LVD	UKCA BS EN IEC 62368-1:2020+A11:2020
ROHS	UKCA BS IEC 62321-1:2013, IEC 62321-3-1:2013 UKCA BS IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 UKCA BS IEC 62321-6:2015, IEC 62321-7-1:2015 UKCA BS IEC 62321-7-2:2017, IEC 62321-8:2017
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-32 0.5m
Vibration	IEC 60068-2-6
Physical	
Dimensions and weight	Dimensions Approx. 120 x 90 x 40mm Weight: 0.65kg
Enclosure	IP40 Protection, Aluminium Alloy
Mounting	DIN Rail, Wall mountable
Environment	
Operating Temperature	-40~+75°C (Storage -40~+85°C)
Humidity	5-90% (non-condensing)

Standard Features

STANDARD FEATURES

Physical Ports

- RJ45 with Auto MDI/MDI-X and Auto-negotiation
- SFP 100/1000Base-X

SIL 73208MP-12V

- 8-port 10/100/1000Base-T with PoE+ Plus 2-ports SFP (fibre) 100/1000Base-X

Power over Ethernet

- Complies with IEEE 802.3af / IEEE 802.3at Power over Ethernet (minimum 9-56VDC input required)
- IEEE 802.3af / 802.3at / devices powered
- Supports PoE power up to 30.8 Watts for each PoE port
- Auto detect powered device (PD)
- Circuit protection helps reduce power interference between ports
- Remote power feeding up to 100m
- PoE Management features
- IEEE 802.3af and IEEE 802.3at mode switch control
- Total PoE power budget control
- Per port PoE function enable/disable
- PoE Admin mode control
- PoE Port Power feeding priority
- Per PoE port power limit
- PD classification detection
- Temperature threshold control
- PoE Usage threshold control
- PD Alive check/reboot
- PoE schedule

Rugged Design

- IP40 Aluminium metal case protection
- DIN-rail and wall mount design
- 48V DC, redundant power with polarity reverse protect function
- Supports EFT protection 4K for power line
- Supports 4K Ethernet ESD protection
- 40°C~+75°C operating temperature

Security

- IP-Based Access Control List (ACL)
- MAC-Based Access Control List
- Source MAC / IP address binding
- DHCP Snooping to filter untrusted DHCP messages

Layer 2 Features

- Prevents packet loss with back pressure (Half-Duplex) and IEEE 802.3x pause frame flow control (Full-Duplex)
- Store and Forward architecture and runt/CRC filtering
- Storm control support
- Broadcast / Multicast / Unicast
- Supports VLAN
- IEEE 802.1Q Tagged VLAN
- Up to 255 VLANs groups, out of 4094 VLAN IDs
- Provider Bridging (VLAN Q-in-Q) support (IEEE 802.1ad)
- Supports Spanning Tree Protocol
- STP, IEEE 802.1D Spanning Tree Protocol
- RSTP, IEEE 802.1w Rapid Spanning Tree Protocol
- MSTP, IEEE 802.1s Multiple Spanning Tree Protocol, spanning tree by VLAN
- BPDU Guard
- Supports Link Aggregation
- 802.3ad Link Aggregation Control Protocol (LACP)
- Provides Port Mirror (1-to-1)
- Port mirroring to monitor the incoming or outgoing traffic on a particular port
- Loop protection to reduce the possibility of broadcast loops

Quality of Service

- Ingress shaper and egress rate limit per port bandwidth control
- 8 priority queues on all switch ports
- Traffic classification
- IEEE 802.1p CoS
- Typical network application
- Strict priority and Weighted Round Robin (WRR) CoS policies
- Supports QoS and In/Out bandwidth control on each port

Multicast

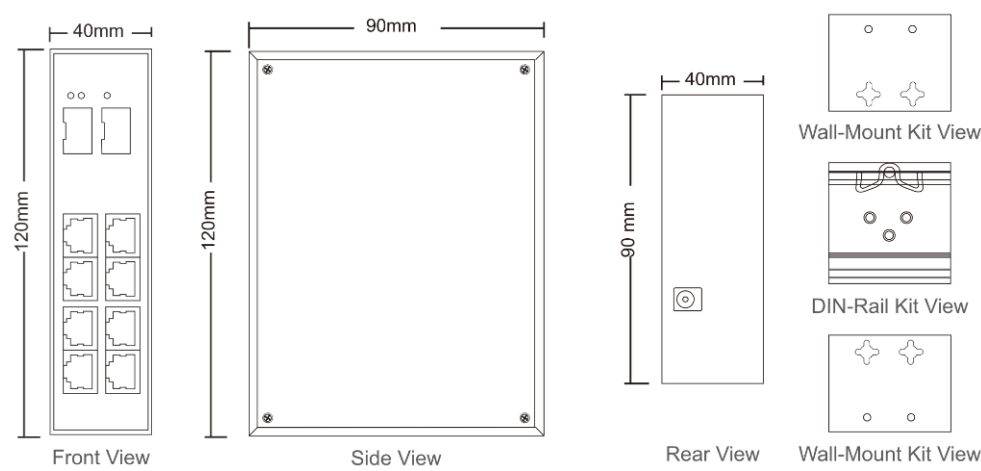
- Supports IGMP snooping v1, v2 and v3
- Supports MLD snooping v1 and v2
- Querier mode support
- IGMP snooping port filtering

Management

- Switch Management Interfaces
- Console / Telnet Command Line Interface
- Web switch management
- SNMP v1 and v2c switch management
- Built-in Trivial File Transfer Protocol (TFTP) client
- Firmware upload / download via HTTP / TFTP
- NTP (Network Time Protocol)
- Reset button for system reboot or reset to factory default

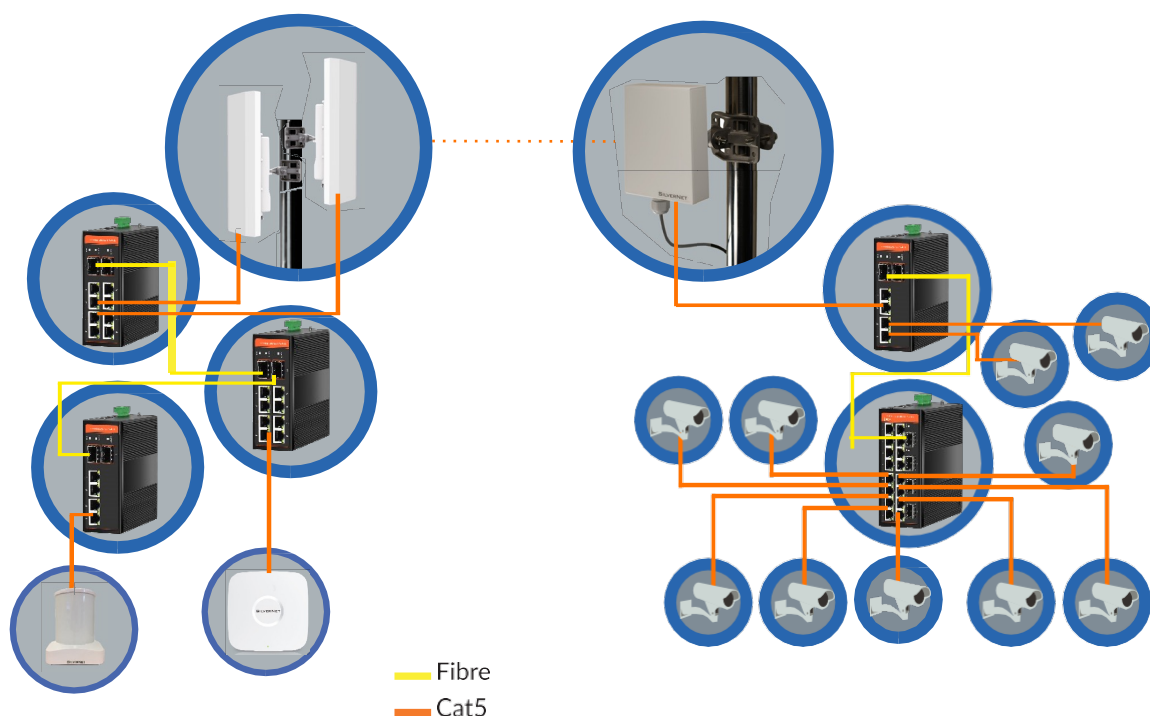
Dimension Diagrams

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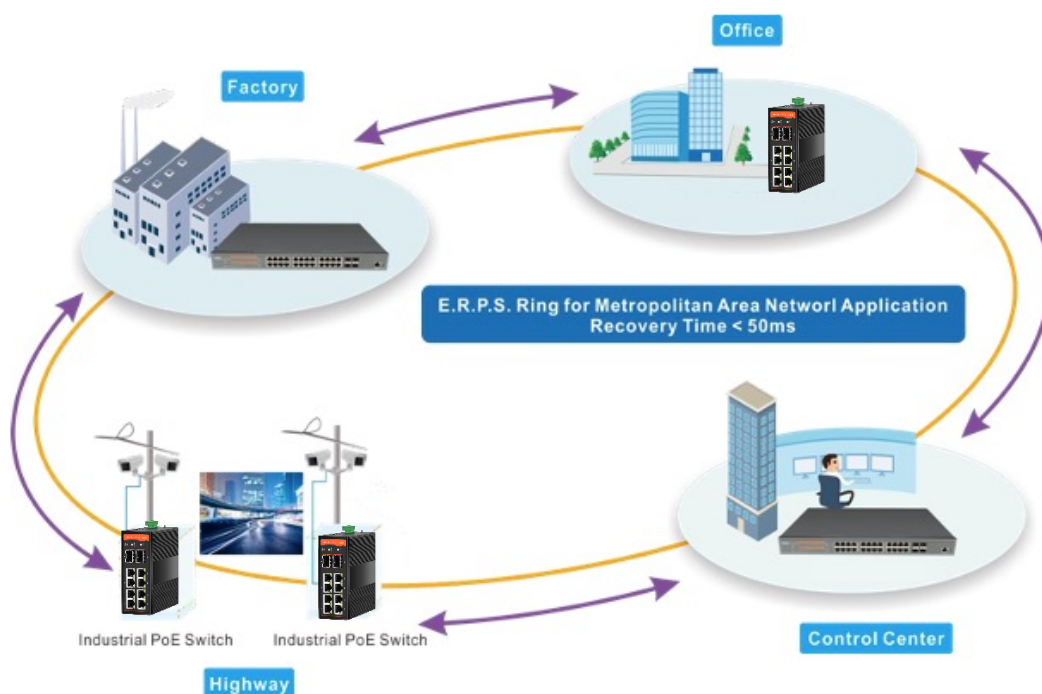
Typical Applications

Connection Applications



Redundant Ring

Fast Recovery for Critical Network Applications



Part Numbers & Accessories

Managed Fibre Switches

Part Code	Description
SIL 73204MP	10/100/1000M 2Gx4GE POE+, two SFP slot, Excluding Power Supply
SIL 73208MP	10/100/1000M 2Gx8GE POE+, two SFP slot, Excluding Power Supply
SIL 73416MP	10/100/1000M 4Gx16GE POE+, four SFP slot, Excluding Power Supply
SIL 73024MP	10/100/1000M 24GE, 16 ports POE+, Excluding Power Supply

Power Supplies

Part Code	Description
SIL NDR-120-48 (48V 2.5A)	120W 48V 2.5A Industrial Din Rail Power Supply
SIL NDR-240-48 (48V 5A)	240W 48V 5A Industrial Din Rail Power Supply
SIL NDR-480-48 (48V 10A)	480W 48V 10A Industrial Din Rail Power Supply

1Gbps Fibre Transmission

Part Code	Description
SIL-SFP0-01-25-X850-0-5D	1G Multimode 850nm SFP, 550m
SIL-SFP0-01-25-X131-10XD	1G Singlemode 1310nm SFP, 10km
SIL-SFP0-01-25-X131-40XD	1G Singlemode 1310nm SFP, 40km
SIL-SFP0-01-25-X155-80XD	1G Singlemode 1550nm SFP, 80km
1Gbps BiDi	
SIL-SFP0-01-25-B131-10XD	1G SM 1310nm TX FP 10km with DDM, 1550nm RX
SIL-SFP0-01-25-B155-10XD	1G SM 1550nm TX FP 10km with DDM, 1310nm RX
SIL-SFP0-01-25-B139-10XD	1G SM 1310nm TX FP 10km with DDM, 1490nm RX
SIL-SFP0-01-25-B149-10XD	1G SM 1490nm TX FP 10km with DDM, 1310nm RX
SIL-SFP0-01-25-B131-40XD	1G SM 1310nm TX DFB 40km with DDM, 1550nm RX
SIL-SFP0-01-25-B155-40XD	1G SM 1550nm TX DFB 40km with DDM, 1310nm RX
SFP to Ethernet	
SIL-SFP0-01-25-XXXT-0-1	1G RJ45 Copper SFP, 100m