

Network Transmission

SIL 3204MP-SFP
SIL 3208MP-SFP

Industrial Gigabit PoE+ Managed Switches



SIL 3204MP-SFP
4 + 2 Industrial Gigabit
PoE+ Managed Switch



SIL 3208MP-SFP
8 + 2 Industrial Gigabit
PoE+ Managed Switch

OVERVIEW

The SilverNet Industrial Gigabit PoE+ Managed Switches are fully managed layer 2 switches. The rugged industrial design makes the switches ideal for installation in harsh environments.

The SIL 3204MP-SFP is an Industrial Gigabit PoE+ Managed Switch with four 10/100/1000Mbps RJ45 ports with PoE+ (30w) capabilities and two 100/1000Mbps SFP (fibre) uplink ports.

The SIL 3208MP-SFP is an Industrial Gigabit PoE+ Managed Switch with eight 10/100/1000Mbps RJ45 ports with PoE+ (30w) capabilities and two 100/1000Mbps SFP (fibre) uplink ports.

The SilverNet Industrial Gigabit PoE+ Managed Switches are ideal for extending Ethernet over distance via fibre daisy chain, whilst eliminating the need for individual power supplies for IP video cameras and wireless access point. The switches have an extended temperature range to enable them to cope with unconditioned outdoor cabinets and industrial environments.

The SilverNet Industrial Gigabit PoE+ Managed Switches are fully compliant with the IEEE802.3af/at standard, providing Power-over-Ethernet over twisted pair cables. The fibre optics ports feature a modular SFP slot for any kind of MSA-compliant pluggable 1.25Gbps SFP transceiver.

Features

- 4 or 8 x 10/100/1000Base-T
- 2 x 1000Base-FX SFP slots
- 40Gbps 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: 16K
- Wide range power design (10~58VDC)
- Operating temperature (-40°C ~+85°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 3204MP-SFP	SIL 3208MP-SFP
Ports		
Total number of ports	6 ports	10 ports
Gigabit Ethernet	4 ports	8 ports
Gigabit Fibre	2 SFP	
Number of PoE ports	4 ports	8 ports
Max output per port	30W	
Performance		
Switch bandwidth	12Gbps	20Gbps
MAC address size	16K	
Processing type	Store and Forward	
Time delay	<10µs	
Jumbo Frames	10K bytes	
Packet buffer space	8Mbit	
Power		
Power input	10~58VDC, Redundant	
Power consumption (Excluding PoE)	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	CE	
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)	
Shock	IEC 60068-2-27	
Freefall	IEC 60068-2-32 0.5m	
Vibration	IEC 60068-2-6	
Railway Traffic	EN50121-4	
Physical		
Dimensions and weight	Dimensions Approx: 143 x 104 x 48mm Weight: 0.58kg	
Humidity	IP40 Protection, Aluminium Alloy	
Mounting	DIN Rail, Wall mountable	
Environment		
Operating Temperature	-40~+85°C (Storage -40~+95°C)	
Humidity	5-95% (non-condensing)	

Standard Features

STANDARD FEATURES

Physical Ports

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

SIL3204MP-SFP

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

SIL3208MP

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
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~+85°C operating temperature

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

Security

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

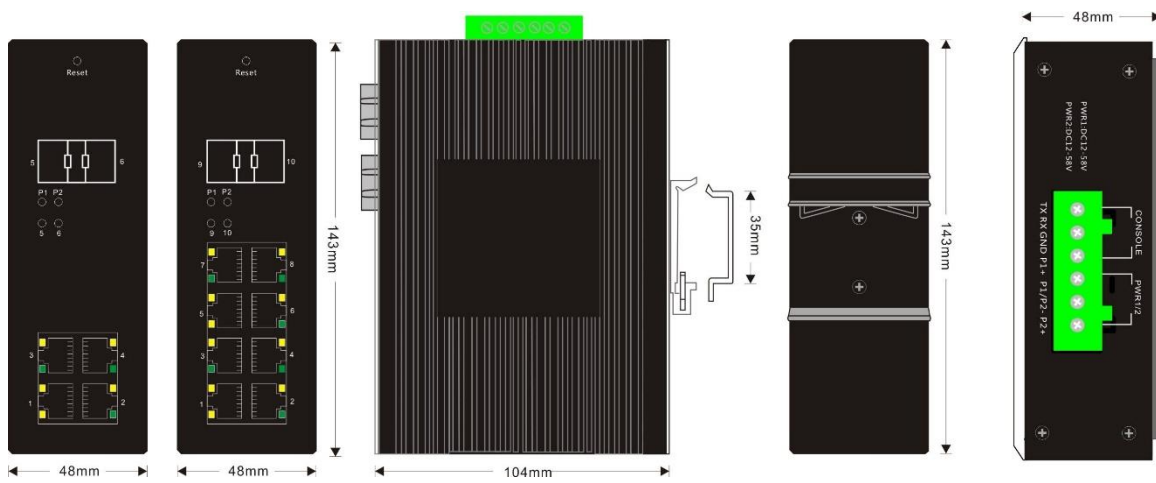
Management

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

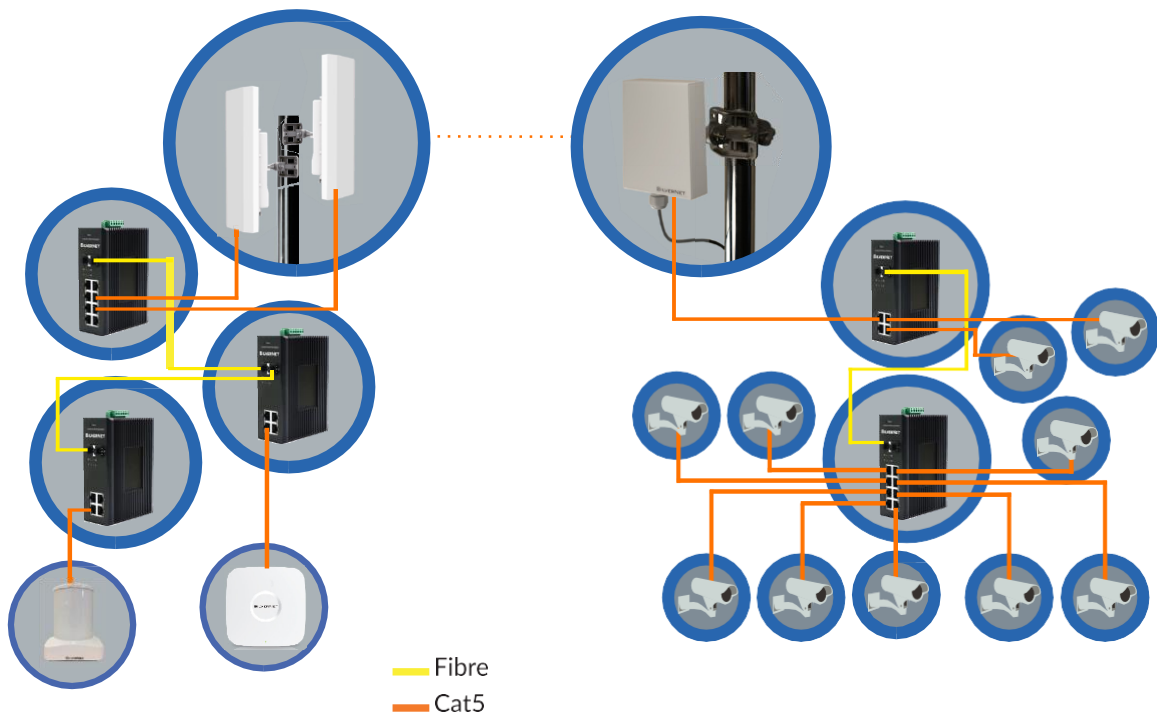
Dimension Diagrams

SIL 3204MP-SFP & SIL 3208MP-SFP

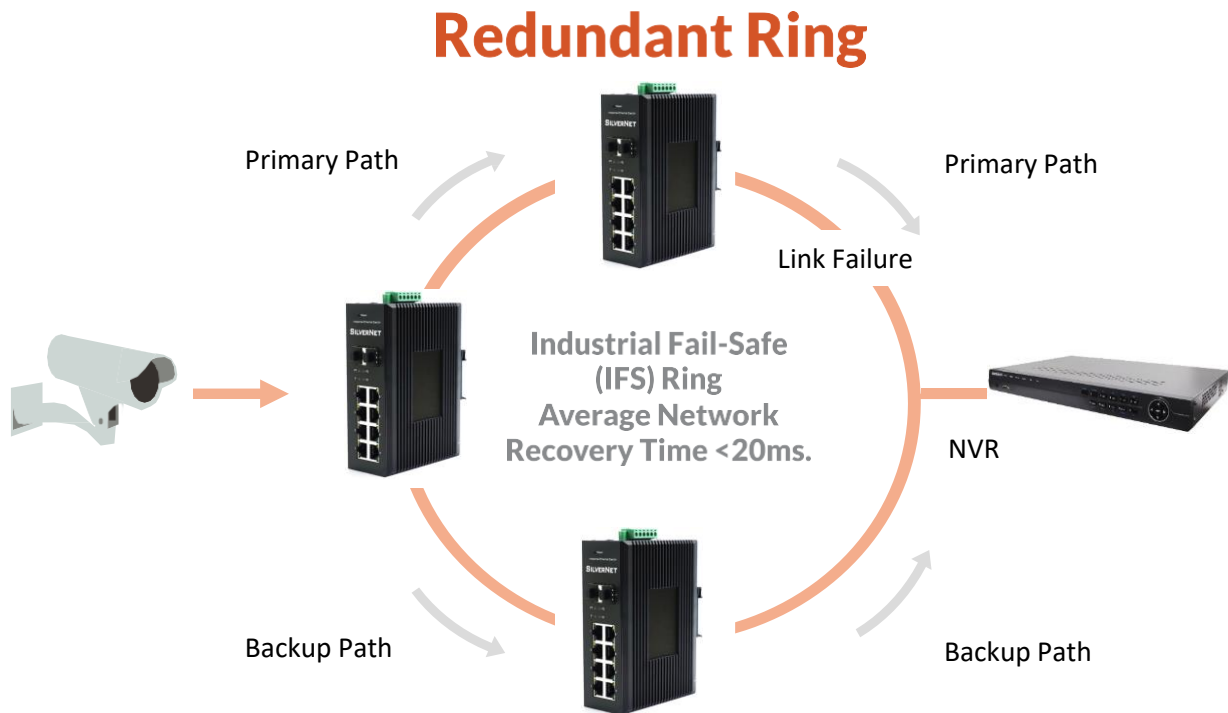
Unit: (mm)



Connection Applications



Typical Applications



Managed Fibre Switches

Part Code	Description
SIL 3204MP SFP	10/100/1000M 2Gx4GE POE, two SFP slot, Excluding Power Supply
SIL 3208MP SFP	10/100/1000M 2Gx8GE POE, two SFP slot, Excluding Power Supply

Power Supplies

Part Code	Description
SIL DR-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