

SERIES 7 INDUSTRIAL GIGABIT PoE+ MANAGED SWITCHES



SIL 73204MP

SIL 73208MP

SIL 73416MP

SIL 73024MP

User Manual

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INTRODUCTION

The SilverNet Series 7 Industrial Gigabit PoE+ Managed Switches are reliable, high performance, high specification and cost effective Managed industrial switches suitable for industrial network operations.

The 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.

PACKING LIST

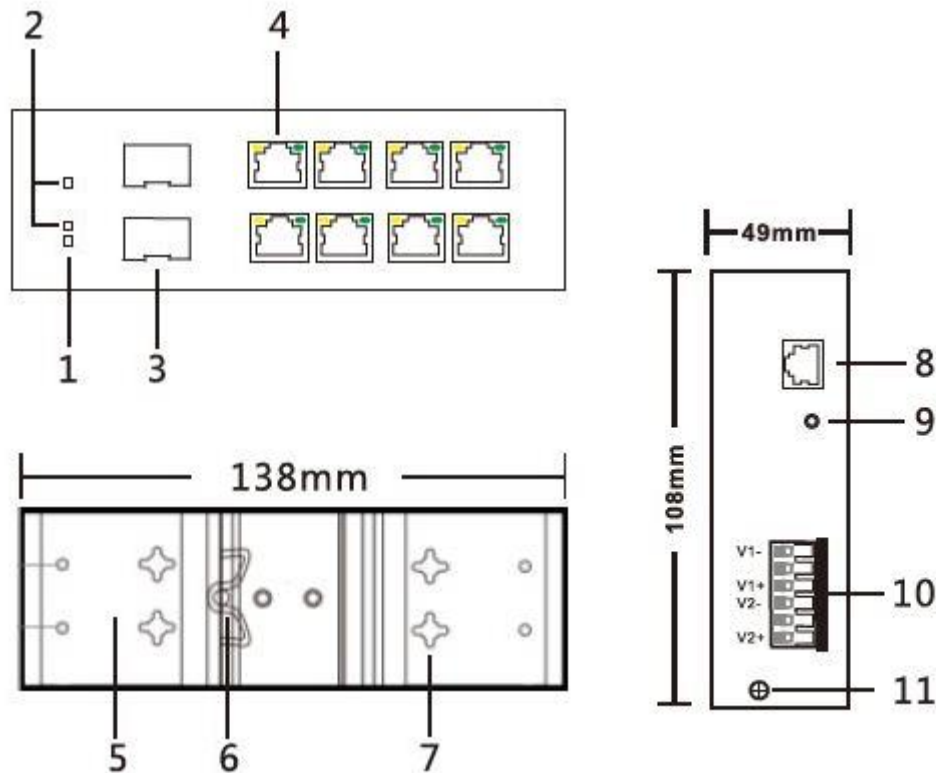
Please check the following items in the package before installing the device

Industrial Managed PoE+ Switch	1 piece
User manual	1 copy
Serial cable	1 piece

Please contact your distributor immediately for any missing or damaged items.

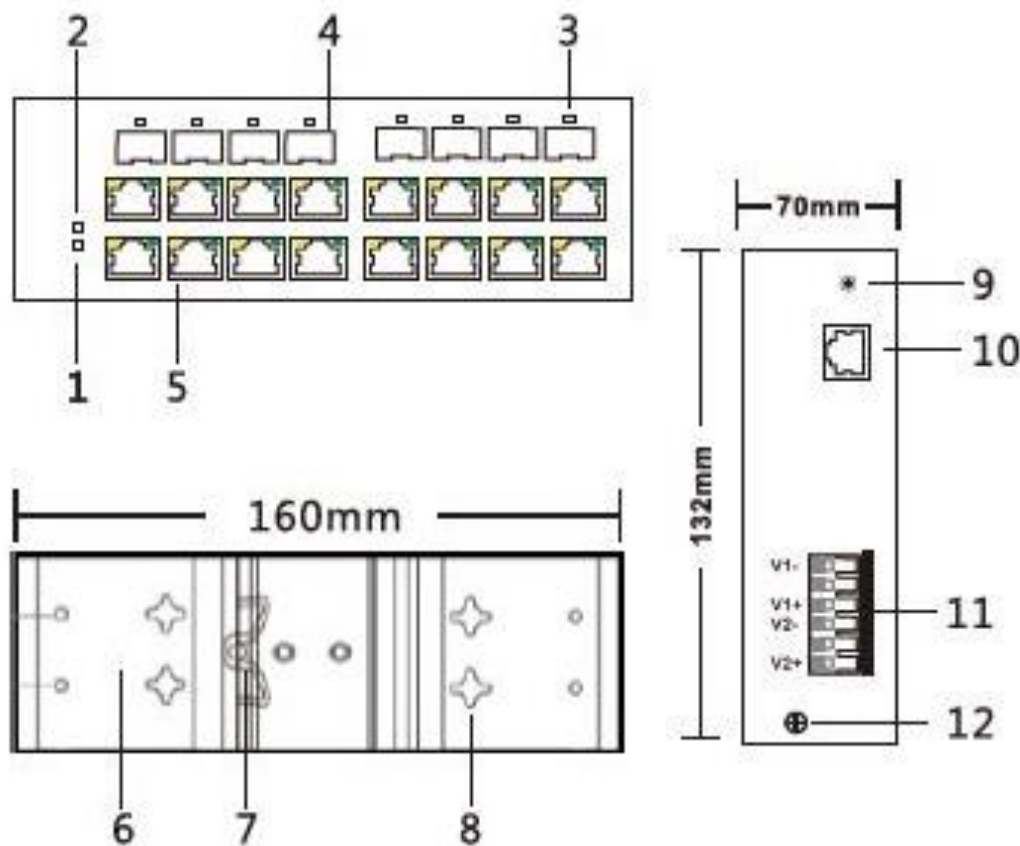
THE PANELS AND LED INDICATORS

SIL 73204MP and SIL 73208MP



Mark	Name	Function
1	Power LED	"On": Power is on and normal
2	System LED	"On": System is on and normal
3	SFP Port	"On": Fibre connection is present "Blinking": Data being transmitted
4	RJ45 Ports	Yellow LED "On": PoE connection is present Yellow LED "Blinking": Data being transmitted Green LED "On": Ethernet connected at 1000M Green LED "Off": Ethernet connected at 10/100M
5	Wall kit	Wall mounting bracket
6	DIN kit	DIN-rail mounting bracket
7	Wall kit	Wall mounting holes
8	Console Port	Connection port to access CLI
9	Reset	Reset button
10	Terminal block	Power input Terminal
11	Ground	Grounding screw

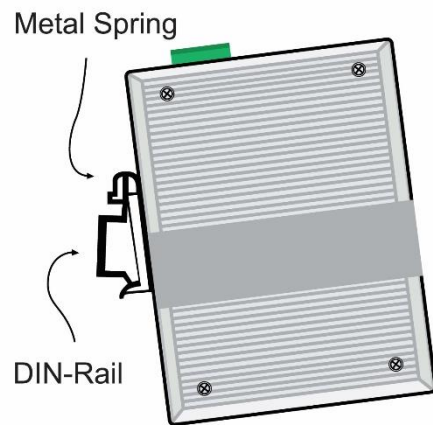
SIL 73416MP and SIL 73024MP



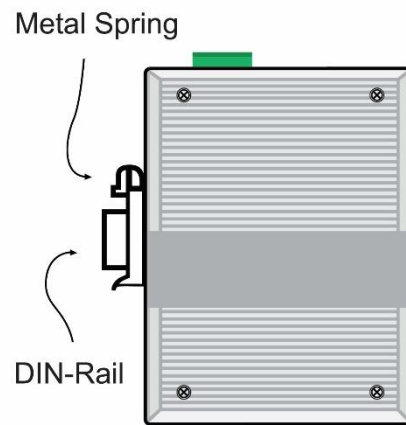
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INSTALLATION

DIN-RAIL INSTALLATION



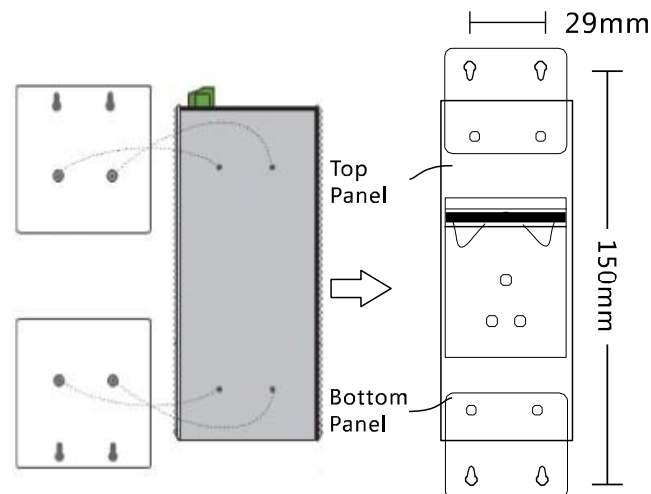
Pic 1



Pic 2

The DIN-rail installation is based on Pic 1 and Pic 2.

WALL-MOUNTED INSTALLATION



The wall mount kit is fixed to the back of the switch. Remove and re-attach the wall mounting kit as shown in the image above.

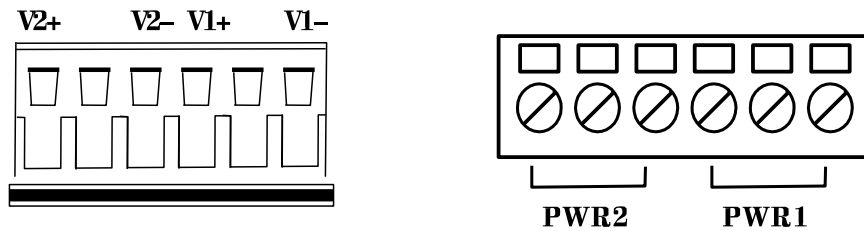
Attach the switch and bracket to the wall using appropriate screws. Do not completely tighten the screws, allow approximately 2mm of space.

Place the screw head through the large holes in the wall bracket then pull down to secure, tighten screws once in place.

POWER

The input terminal of the switch is for 6 PIN plug type terminals, V1+ and V1- is for power supply 1 (PWR1), V2+ and V2- is for power supply 2 (PWR2) and GND for the earthing terminal, as shown in image below..

The input voltage range for power 1 and power 2 is 12VDC ~ 56VDC, V1+, and V2+ are positive, V1- and V2- are negative.



The switch can be powered by two power supplies simultaneously allowing the switch to continue functioning even if one of the power supplies fails.

Note*

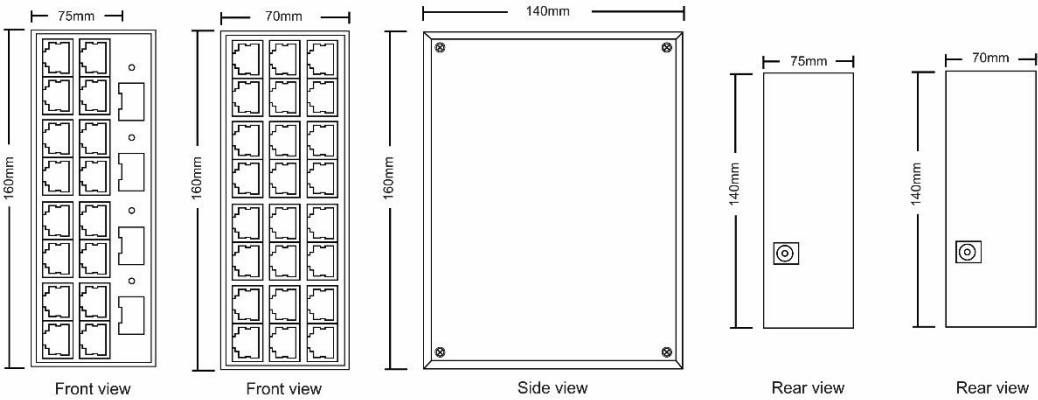
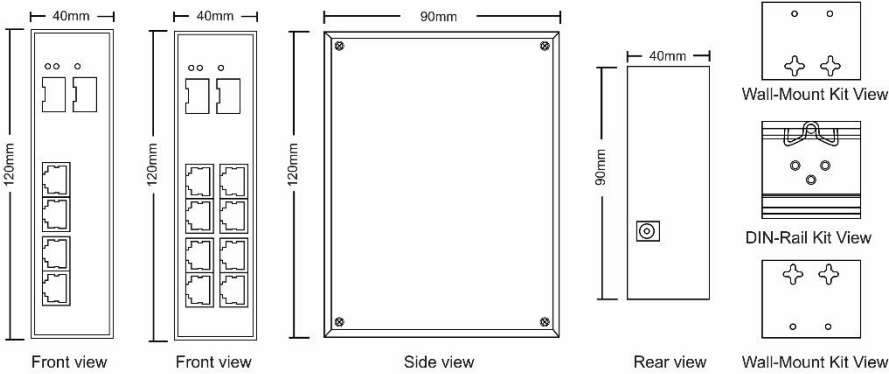
For the **SIL 73204MP** please use power supply **SIL NDR 120-48**

For the **SIL 73208MP** please use power supply **SIL NDR 240-48**

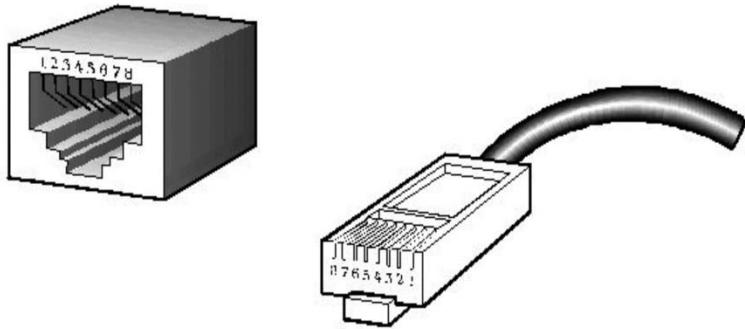
For the **SIL 73416MP** please use power supply **SIL NDR 480-48**

For the **SIL 73024MP** please use power supply **SIL NDR 480-48**

PRODUCT DIMENSION



COPPER CABLE CONNECTION



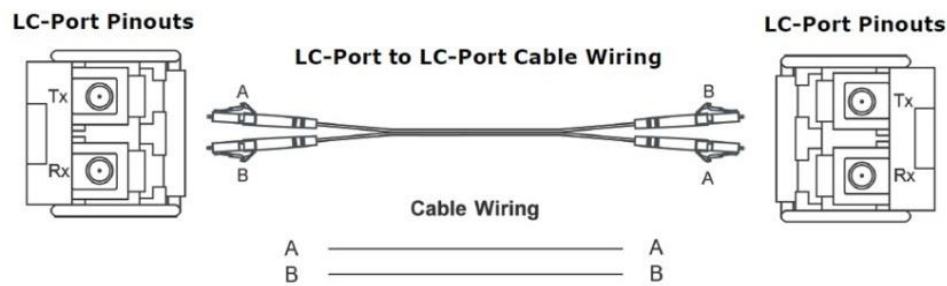
STANDARD RJ45 CONNECTOR

There are 8 wires on a standard UTP/STP cable, and each wire is colour coded. The following shows the pin allocation and colour of a straight through cable and crossover cable:

<u>Straight Cable</u>		<u>SIDE 1</u>	<u>SIDE 2</u>
1 2 3 4 5 6 7 8	<u>SIDE 1</u>	1 = White/Orange	1 = White/Orange
1 2 3 4 5 6 7 8	<u>SIDE 2</u>	2 = Orange	2 = Orange
		3 = White/Green	3 = White/Green
		4 = Blue	4 = Blue
		5 = White/Blue	5 = White/Blue
		6 = Green	6 = Green
		7 = White/Brown	7 = White/Brown
		8 = Brown	8 = Brown

<u>Cross Over Cable</u>		<u>SIDE 1</u>	<u>SIDE 2</u>
1 2 3 4 5 6 7 8	<u>SIDE 1</u>	1 = White/Orange	1 = White/Green
1 2 3 4 5 6 7 8	<u>SIDE 2</u>	2 = Orange	2 = Green
		3 = White/Green	3 = White/Orange
		4 = Blue	4 = Blue
		5 = White/Blue	5 = White/Blue
		6 = Green	6 = Orange
		7 = White/Brown	7 = White/Brown
		8 = Brown	8 = Brown

FIBRE CABLE CONNECTION



ACCESSORIES

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

Power supplies

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

TECHNICAL PARAMETERS

Power supply

Input voltage: 12V~56V (redundant dual power)

PSE Power: 0~30W

POE Pin: 1/2+, 3/6-

Copper Port

Connector: RJ-45 connector

Data Rate: 10/100MbpsAuto, 10/100/1000Mbps Auto

Twisted Pair cable: Cat5 UTP cable

Transmission distance: 100 metres

Fibre Port

Connector: SC (default), FC/ST/SFP (optional)

Data Rate: 155Mbps, 1.25Gbps

Fibre Type: SM 9/125μm, MM 50/125μm、62.5/125μm

Transmission distance: 20km ~ 120km

Environment

Storage temperature: -40~85°C

Operating temperature: -40~75°C

Relative humidity: 5%-90%

Mechanism

Enclosure: IP40, Black, Metal shell

Mounting: DIN-rail, Wall

Agreement

IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x

IEEE 802.3af, IEEE 802.3at

STANDARDS

EMI FCC Part 15 Subpart B Class A

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

IEC60068-2-27

IEC60068-2-32

IEC60068-2-6

EN60950-1

WARNINGS

This product is only suitable for indoor applications.

Ensure that the dust caps are placed over the Fibre interface connectors when not in use.

Do not stare directly into the fibre transmitter as this is very dangerous and can cause serious damage to your eyes.

Optical fibre transceivers must be used in pairs.

Single optical fibre transceivers must be used in pairs (A, B)

A: TX1310/RX1550nm B: TX1550/RX1310nm.

TROUBLESHOOTING

If you have no connection then please check that the corresponding network devices are using the same transfer rate as the Ethernet Switch (10Mbps, 100Mbps or 1000Mbps).

If you have excessive power loss in the fibre, please check and clean the fibre connectors and ports.

RESPONSIBILITY NOTE

1. SilverNet Ltd will repair or replace any product that fails within the terms of the limited warranty in effect at the time of purchase.
2. If the product has been purchased via one of our distribution partners, it should be returned to the place of purchase as their terms may differ from ours.
3. If you use a Power Supply that is not provided by SilverNet and the device is damaged, then this is not covered under the product warranty.
4. Please follow this manual when using our power supply.
5. We will not cover any damage to our equipment or persons that is caused by any changes to this equipment without prior authorisation from us.
6. We will replace any defective equipment which fails within the warranty period.

WARRANTY

The Series 7 industrial gigabit PoE+ managed Ethernet switches come with a 5-year warranty as standard. For full terms and conditions of warranty please go to www.silvernet.com/terms-and-conditions/

CONTACT SILVERNET

Email us at support@silvernet.com

Call our support team on **08712233067**

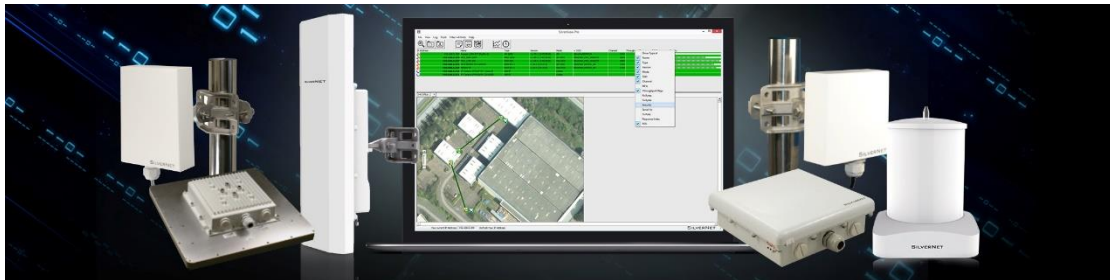
www.silvernet.com

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Intelligent Wi-Fi Solutions



Industry Leading Technical Support

