



ET4222PpH-S-DR

Self-Configured Hardened 4-port 10/100/1000Base-T + 2-port 1000Base-X SFP Ethernet Switch with PoE+/PSE

This quick start guide describes how to install and use the Self-Configured Hardened Ethernet Switch with PoE+. This is the Switch of choice for harsh environments.

Overview

The ET4222PpH-S-DR product is a Self-Configured Hardened Ethernet switch which provides 4 port 10/100/1000Base-TX + 2x1000Base-FX SFP port. The 10/100/1000Base-TX ports supports PoE+ (Power Sourcing Equipment) and compliant with IEEE 802.3at.

Comply with IEEE 802.3 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE 802.3x, and IEEE802.3at. The product will provide PoE power to any IEEE802.3at/af compliant network device. It supports IGMP snooping which significantly saves the network bandwidth and reduces network load. With its reliable design and ease of use, the product is a great choice for integrating networks consisting of network devices such as IP cameras and wireless access points between remote locations.

General

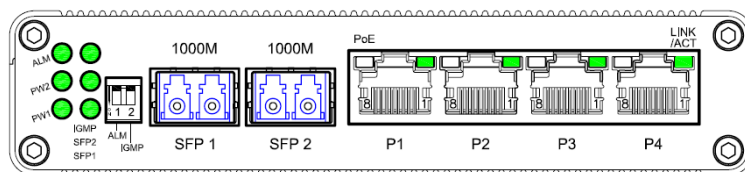
To ensure trouble free transportation and storage, all OT Systems products must be thoroughly inspected, tested and well packed before delivery. Check the product upon receipt for any visible damage which may have been caused during shipping.

Package Content

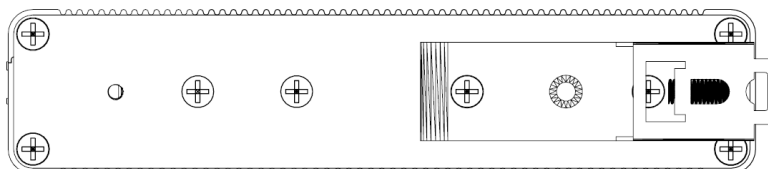
- Self-Configured Hardened 4-port 10/100/1000Base-T + 2-port 1000Base-X SFP Ethernet Switch with PoE+/PSE x 1
- Quick Start Guide x 1

Physical Description

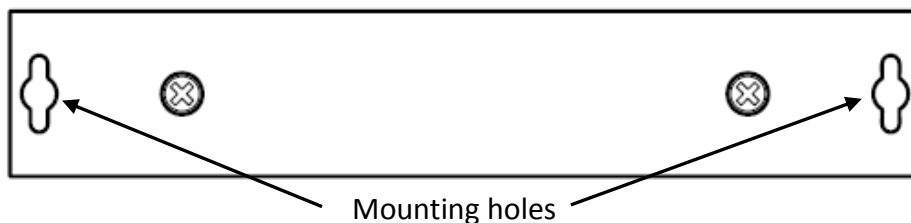
Front Panel



Rear Panel (Din-Rail)



Rear Panel (Wall mount)

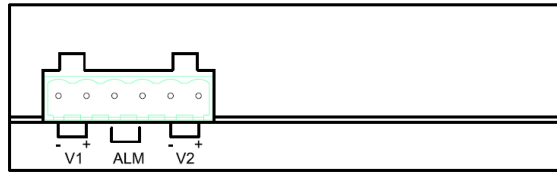




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Left Side view

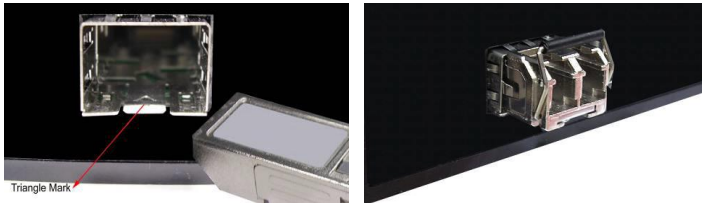


Installation

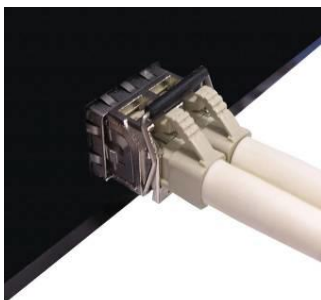
SFP Optical Module

You can select different SFP modules as required (Please refer to our SFP Ordering Options for the appropriate module).

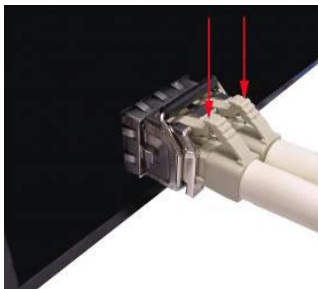
To insert/remove the SFP, the procedures are as follows:



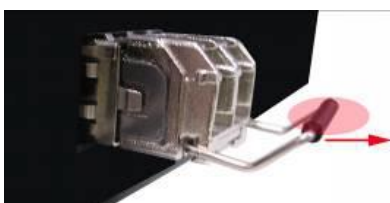
1. On the front panel, insert the SFP module into the SFP port until it is securely locked.



2. Connect the optical fiber (1/2 core) to the LC connector(s) of the SFP.



3. To remove the SFP module, press down the lock of the LC connector of the optical fiber to pull out the fiber cable.



4. Pull down the SFP lever and hold its position. Pull out the SFP module from the SFP port.

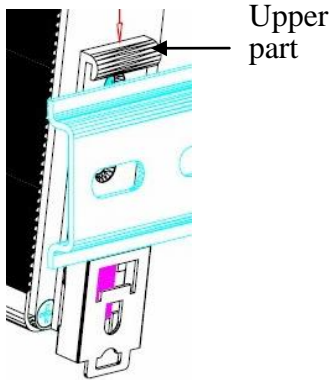


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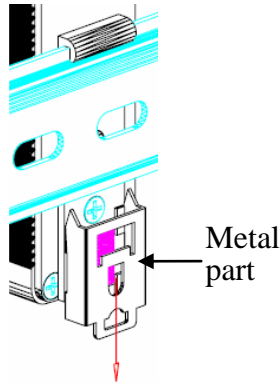
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DIN Rail Installation

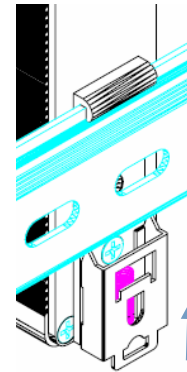
ET4222PpH-S-DR can be installed on a DIN rail. Installation steps are as follows:



1. Put the switch close to the DIN rail track. Lock the upper part of the DIN rail clip on the upper side of the track.



2. Press the switch until the metal part move downward and a “click” sound is heard.

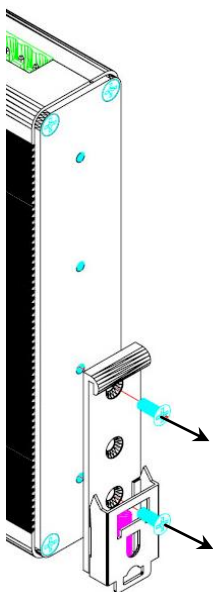


3. The metal part is then moved back to its original position. The switch is securely locked on the track. The installation is completed.

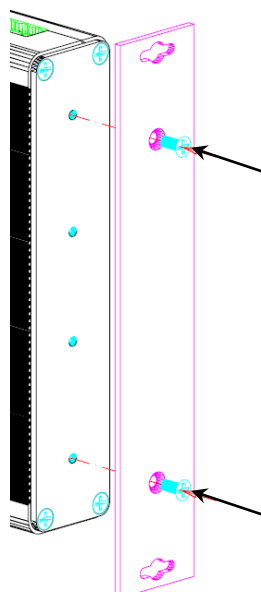
Removal:

1. Pull down the metal part, pull out the lower part of the DIN rail clip until it leaves the track.
2. Lift up the upper part of the clip until the switch separate from the track.

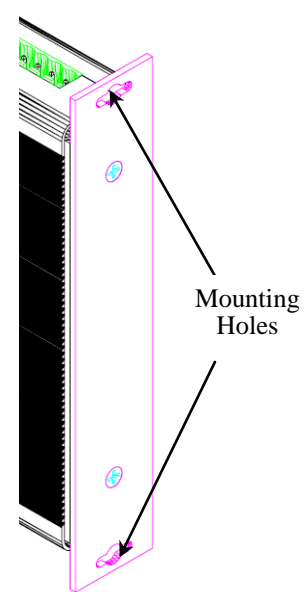
Wall Mount Installation



1. Remove the screws to take out the DIN rail clip from the switch.



2. Tighten the screws to fix the wall mount plate and the switch together.



3. Mount the switch on the wall or on a flat surface with 2 screws piercing through the mounting holes to secure it in position.



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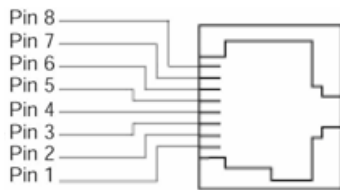
Setup

1. Connect one end of the Ethernet cables to their corresponding ports on the product. Connect the other end to the network equipment such as IP cameras, Switches or PCs. Insert the SFP and connect the optical fiber cables to its connectors.
2. Connect the product with the power adapter and switch on the product, the PWR indicator should then be ON. If it is not, please check whether the power cable is connected properly and the power supply functions normally.

After all cables are connected, corresponding indicators will be on. Please refer to the **Operational Instructions** for detail descriptions.

Interface

RJ-45 Pin Assignment



Pin	Signal Name
1	TP0+
2	TP0-
3	TP1+
4	TP2+
5	TP2-
6	TP1-
7	TP3+
8	TP3-

Power and Alarm Connection:

Description	Pin	V1 -	V1 +	ALM	V2 -	V2 +
	Power Input		GND	+48V (DC)	Normal Open	GND

Cable Connections

Signal Type	Cable Type	Connector
Ethernet	Cat. 5 or above	RJ45
Optical	SM/MM Optical fiber cable (depends on SFP)	LC
Power supply 1	Power cable	6-pin Terminal Block (Pin 1/2)
Power supply 2	Power cable	6-pin Terminal Block (Pin 5/6)
ALM	2 wire	6-pin Terminal Block (Pin 3/4)



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LED Indicators

Indicator	Color	Status	Description	
PW1	Green	ON	Powered on	
PW2	Green	ON	Powered on	
ALM	Green	ON	Alarm contact close when either of the power supplies is off	
SFP1,2	Green	ON	Fiber link up	
		OFF	Fiber is not connected or fiber link down	
IGMP	Green	ON	Enable IGMP Snooping	
		OFF	Disable IGMP Snooping	
RJ45 Port (P1-P4)	PoE	Crystal	ON (Green)	PoE is activated.
			Blinking	A Power Device (PD) is being detected.
			OFF	No device is connected or the connected device is not a PD.
	LINK/ACT	Green	ON	A network device is connected
			Blinking	The connected device is transmitting or receiving data.
			OFF	No network device is connected

Dip Switch

ALM	ON	Enable Power Failure Alarm (Default setting)
	OFF	Disable Power Failure Alarm
IGMP	ON	Enable IGMP Snooping (Default setting)
	OFF	Disable IGMP Snooping

Ports

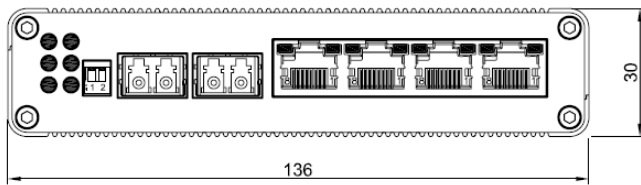
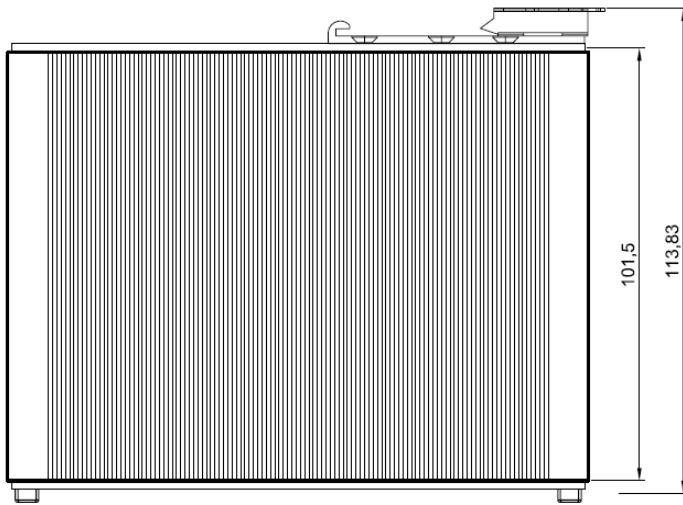
P1-P4	Ethernet ports
SFP1, SFP2	Fiber port
Power Input	DC 48V input (Double power input)



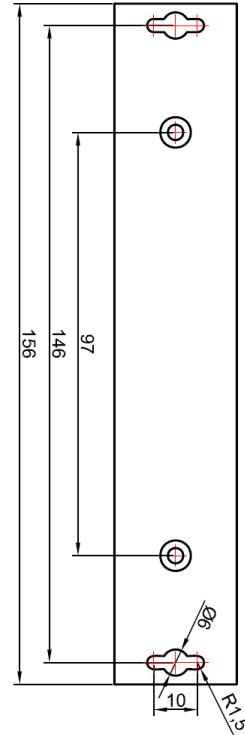
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Dimensions Drawing of the Product (Unit: mm)



DIN Rail



Wall Mount Panel

Functional Description

- 2048 MAC address
- 1M bits buffer memory
- Supports 9K Bytes Jumbo Frame
- Supports Energy Efficient Ethernet IEEE802.3az
- Supports IEEE 802.3at Power over Ethernet (PoE) Power Sourcing Equipment (PSE)
- Support 10/100/1000Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX
- Supports Light Hardware IGMP V1, V2, V3; DIP switch selectable
- Support Relay output (Dry Contact, 1A@DC 24V) for power fail alarm; DIP switch selectable.
- -40°C to 75°C (-40°F to 167°F) operating temperature range
- Supports Wall-mount and DIN-Rail installation

Manual Earth Green manual is available in our website www.ot-systems.com