

E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R Industrial PoE Ethernet Switch Startup Manual

Packing List

Before installation, please make sure that the following items have been shipped:

- 1 x E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R Ethernet Switch
- 2 x Wall mounting brackets with screws
- 1 x DIN-rail Mounting Bracket and Screws
- 1 E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R Startup Manual

Introduction

The E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R supports 24-48V_{DC} redundant power input and is secured with a double protection mechanism: Power Polarity Reverse Protect and an Overload Current Fuse. The E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R supports up to 4 IEEE 802.3 af/ at PoE ports, and is more convenient for users to power up their devices. Each port of the E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R has two LED's to show the link status transmission speed. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify administrators. Engineers can verify the hardware status by checking the LED, and make troubleshooting quick and easy. The compact E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R comes with IP30 rated metal housing to help against ingress from dusty industrial environments.

Specifications

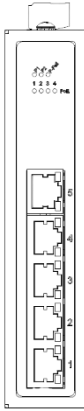
General

- **Compatibility:** IEEE 802.3, 802.3u, 802.3x, 802.3ab, 802.3af/at.
- **LAN:**
 - E-IESH-POE-2705-T-R: 4 x 10/100Mbps PoE ports (RJ-45), 1 x 10/100/1000Mbps (RJ45)
 - E-IESH-POE-2705G-T-R: 4 x 10/100/1000Mbps PoE ports (RJ-45), 1 x 10/100/1000Mbps (RJ45)
- **Ethernet RJ-45:** Up to 100 m
- **Connectors:** 5 x RJ-45
- **Switch Architecture:** Store and Forward
- **Power Input Rating:**
 - 48V_{DC}, 1.92A
 - 24V_{DC}, 4.12A
- **Power Consumption:** Max.2W
- **PoE Output (Port 1 ~ Port 4):**
 - 75°C, Total 60W, per port max. 30W
 - 60°C, Total 90W, per port max. 30W
- **Power Budget:** 90W
- **Dimensions (W x H x D):** 30 x 140 x 95 mm
- **Enclosure:** IP30
- **Operating Temperature:** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature:** -40 ~ 85°C (-40°F ~ 185°F)
- **Operating Humidity:** 10 ~ 95% (non-condensing)
- **Storage Humidity:** 10 ~ 95% (non-condensing)
- **EMC:** CE, FCC Class A
- **Altitude:** Up to 3000m

Part No. 2049270510

Version 2. 2024/08

Overview



Warning

1. Do not block air ventilation holes.
2. Use dry cloth for cleaning.
3. This is open type equipment and should be installed in a suitable enclosure.

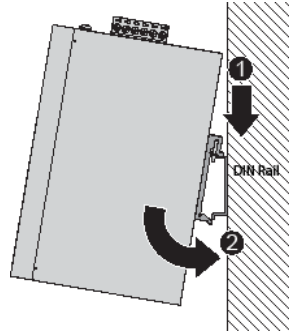
LED Definition				
	LED	Color	Description	
Status LEDs	P1	Green	On	PWR1 is being supplied to power input.
			Off	PWR1 is not being supplied to power input.
	P2	Green	On	PWR2 is being supplied to power input.
			Off	PWR2 is not being supplied to power input.
	P-fail	Red	On	When PWR1 or PWR2 is disconnected, the LED lights
			Off	When PWR1 or PWR2 is connected, the LED is off
Port LEDs	PoE (1-4)	Green	On	PoE activated
			Off	PoE non-working
	Copper Ports (1-5)	Green (top)	On	Ethernet port link has been established
			Blinking	Ethernet port active
			Off	No link
		Green/Amber (bottom)	Green On	When port data is being transmitted at 1000Mbps
			Amber On	When port data is being transmitted at 100Mbps
			Off	When the port data is being transmitted at 10Mbps

2 E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R Startup Manual

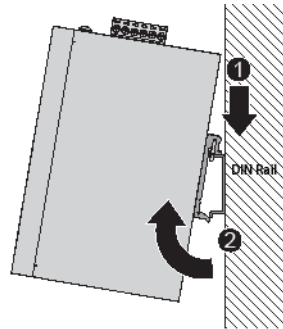
Mounting

DIN-rail Mounting

Installing the DIN-Rail Mounting Kit.



Removing the DIN-Rail



Minimum safe height: Up 10 cm/Down 10 cm

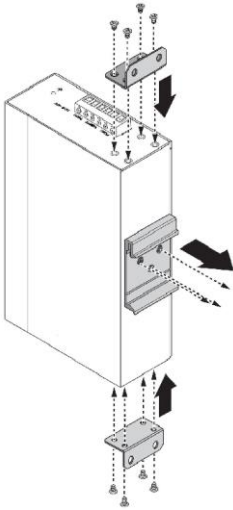
Wall Mounting

1. Remove the Din Rail.
2. Attach the brackets included to the switch with screws.
3. With the brackets attached, hang the switch to the nails on the wall.
4. Secure the wall mounting plates to the wall in the industrial panel.

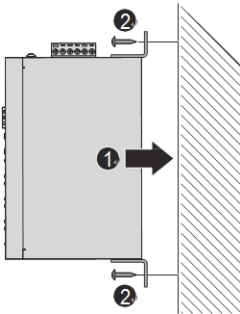
Minimum safe height: Up 10 cm/Down 10cm

M3X10L (Depth: 10mm)

Mounting (Cont.)



M3X10L (Depth: 10mm)

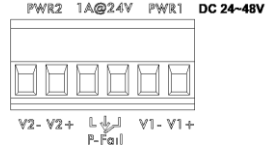


Power Connection

The E-IESH-POE-2705-T-R/ E-IESH-POE-2705G-T-R switch supports dual 24-48 V_{DC} power inputs and changes relay status when power failure occurs.

1. Insert the positive and negative wires into the V+ and V- contacts on the terminal block connector.
2. Tighten the wire-clamps screws to prevent the DC wires coming loose.
3. Take into consideration the following guidelines before wiring the device.
4. The terminal block (CN1) is suitable for 12-18 AWG (7A). Torque value 7 lb-in.
5. The cross sectional area of the earthing conductors should be at least 18AWG.
6. The temperature rating of the input connection cable should higher than 95°C.

Power Connection (Cont.)



Disconnect all power sources.

Safety Instructions

The switches support +24-48V_{DC} power inputs.

1. The switches must be powered by using UL62368-1 Listed power source, rated 24Vdc, 5A minimum or 48Vdc, 2.5A minimum and Tma 75 degree up to 3000m.
2. Ensure to connect the power cord to a socket-outlet with earthing connection.
3. If the equipment is not used for a long time, remove it from the power source to avoid damage by transient over voltage.
4. For use in pollution free environments and indoor use.
5. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
6. This equipment is not suitable for use in locations where children are likely to be present.