EX41941F Hardened PoE Switch

Installation Guide

1 Unpacking

Unpack the items. Your package should include:

- One EX41941F PoE switch
- Power input terminal block
- Wall and DIN-Rail mounting hardware brackets

If items are missing or damaged, notify your EtherWAN representative. Keep the carton and packing material.

More information available at:

https://www.etherwan.com/us

For warranty information, visit:

https://www.etherwan.com/us/support/warranty-policy

2 Equipment Needed

- Category 5e or better cable for RJ-45 ports
- 48VDC power supply with voltage adjustable up to 56VDC and power output to handle 120W PoE power budget.

3 Select a Location

- DIN-rail installations: Attach the bracket on the unit using the included screws and then mount on a DIN-rail.
- Wall installations: Attach the brackets on the unit using the included screws and then mount on a wall.
- Identify a power source within 6 feet (1.8 meters).
- Choose a dry area with ambient temperature between -40 and 75°C (-40 and 167°F).
- Keep away from heat sources, sunlight, warm air exhausts, hot-air vents, and heaters.
- Make sure there is adequate airflow.

4 Connect to the Ports

The EX41941F has the following ports:

- 4 10/100/1000 Mbps PoE ports
- 1 10/100/1000 Mbps RJ-45 uplink port

10/100/1000BASE-T Ports

Ports 1 to 4 are gigabit copper ports that are compliant with IEEE 802.3af/at PoE protocol, with up to 30W power output per port. Port 5 is a gigabit copper port that can be utilized for data uplink.

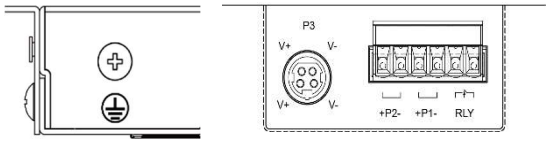
5 Connect Power

Terminal Block

Connect the unit to a suitable power supply using appropriate wire, 18-24 AWG, rated for 105°C or higher.

Redundant power is supported. However, only one power input is required to operate the unit.

1. Connect power wires to the appropriate P1+/- or P2+/- pins on the terminal block.
2. Connect the grounding wire to the ground screw.
3. Plug the terminal block into the socket.
4. Alternatively, connect power 3 to an external power adapter.



Relay Output Alarm

The switch provides relay output contacts for redundant power. The relay output can be connected to an alarm signaling device. The current capacity is 1A@24VDC.

- When dual power sources are connected, the circuit is open.
- When a single power source is connected the circuit is closed.
- The relay works with only power 1 and power 2. It is not connected to power 3.

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6 Front Panel LEDs

LED Panel Layout

LED	Color	Status
Power 1/2	Green	ON = power detected OFF = power not detected
Power 3	Green	ON = power detected OFF = power not detected
⚠	Amber	ON = One power source connected (P1 or P2) OFF = Both power sources connected (P1 and P2)
PoE (1-4)	Amber	ON = PD is detected Off = No PD detected
Link/ACT	Green	ON = Connection established Off = Link not detected Flashing = Port is sending or receiving data
TX (5)	Green	ON = Connection established Off = Link not detected Flashing = Port is sending or receiving data

7 Notes

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