## 1 Unpacking

Open the carton and unpack the items. Your package should include:

- One EX41922 hardened unmanaged switch

If any items are missing or damaged, notify your EtherWAN representative. If possible, save the carton and packing material in case you need to ship or store the switch in the future.

## 2 Equipment Needed

- Appropriate cables for data ports
- SFP modules

## 3 Select a Location

- Installations: DIN-Rail mount
- Select 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).
- Be sure there is adequate airflow.

## 4 Connect to the Data Ports

The EX41922-T is equipped with:

- Two 10/100/1000BASE ports
- Two 100/1000 SFP slots

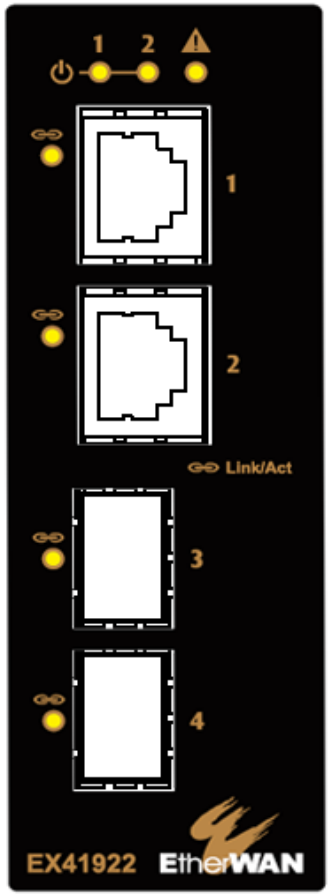
### 10/100/1000BASE Ports

The switch is equipped with two 10/100/1000 Mbps RJ-45 ports. These ports can be connected to routers, other switches, or end devices. Use category 5e or higher UTP/STP cable.

### 100/1000 SFP Slots

Your switch model has two SFP slots. SFP transceivers can be installed directly into these ports. Ensure that the same type of transceiver is used at both ends of the link and that the correct type of fiber cable is used.

## 5 Front Panel Layout

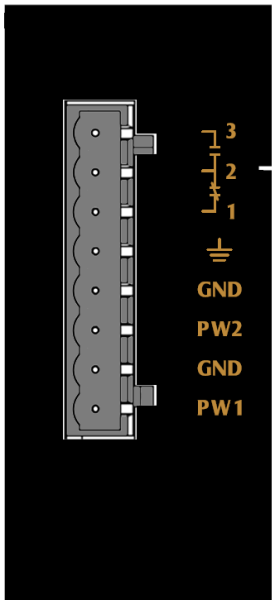



| LED | State | Status |
|---|---|---|
| **PWR 1, 2 (Green)** | ON | Switch is receiving power |
| **Fault (Red)** | ON | Alarm state - Relay alarm action |
| | OFF | Non-alarm state |
| **10/100/1000TX Ports** | | |
| **Link/Activity (Green)** | ON | Network connection at 10/100Mbps |
| | OFF | No data transmission on port |
| **Link/Activity (Amber)** | ON | Valid network connection at 1000Mbps |
| | Flashing | Port is sending or receiving data |
| **100/1000SFP Ports** | | |
| **Link/Activity (Green)** | ON | Network connection at 10/100Mbps |
| | OFF | No data transmission on port |
| **Link/Activity (Amber)** | ON | Network connection at 1000Mbps |
| | Flashing | Port is sending or receiving data |

## 6 Apply DC Power

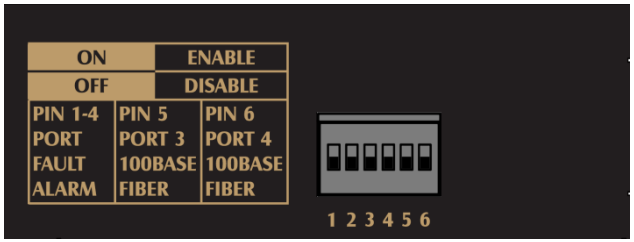
The switch is equipped with an 8-pin terminal block, with two power inputs having operating voltage of 12~48VDC, and a relay output with current 0.6A @ 30VDC.

Only one power input is required to operate the switch. However, redundant power supply functionality is supported.




## 7 Set DIP Switches

The switch has a 6-position DIP switch that controls the alarm status on each port. Alarms are sent through the relay output.




| DIP Switch | Setting and Description |
|---|---|
| 1 | ON = Port 1 Alarm is enabled.<br>OFF = Port 1 Alarm disabled. |
| 2 | ON = Port 2 Alarm is enabled.<br>OFF = Port 2 Alarm disabled. |
| 3 | ON = Port 3 Alarm is enabled.<br>OFF = Port 3 Alarm disabled. |
| 4 | ON = Port 4 Alarm is enabled.<br>OFF = Port 4 Alarm disabled. |
| 5 | ON = Port 3 100SFP is enabled.<br>OFF = Port 3 100SFP disabled. |
| 6 | ON = Port 4 100SFP is enabled.<br>OFF = Port 4 100SFP disabled. |

## 8 Relay Output Alarm

Alarm Contact (for two power inputs: PW1, PW2). Default state is PW1 and PW2 both off, Points 1 & 2 closed and Points 2 & 3 open.

| Relay contact | PW1 | PW2 | Points 1 & 2 | Points 2 & 3 |
|---|---|---|---|---|
| Alarm state | Off | Off | Closed | Open |
| Alarm state | Off | On | Closed | Open |
| Alarm state | On | Off | Closed | Open |
| Non-Alarm | On | On | Open | Closed |

Manufacturer information:

**EtherWAN Systems, Inc.**

33F, No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City, 221 Taiwan

The full product manual can be downloaded from:

www.etherwan.com