



ZEM406LP Daisy Chain SPE Switch Single Pair Ethernet

Overview

ZEM406LP by Zemfyre Inc. is a 4-port DIN-rail unmanaged switch with 2 ports of Single Pair Ethernet (SPE) 10BASE-T1L and 2 ports of 10/100BASE-TX.

The switch provides secure 10Mb/s connectivity for up to 1,700m and forwarding of up to 70W of power on the same pair of wires.

ZEM406LP allows daisy-chaining data and power forwarding on SPE ports when working with ZEM601L switch. Off-the-shelf power source 18-58VDC or 24VAC is capable of powering up to 40 devices in the chain without use of local power. This line or loop network topology greatly extends the reach for regular 10/100BASE-T(X) based devices not possible before.

Convenient for field termination industry standard 3.5mm terminal blocks for SPE ports easily wired with either screw terminals or push-in receptacle types.

ZEM406LP has a bypass relay closing the chain when using local power and the power is out. This way the rest of the network is still completely functional when one node in the chain is out.

The switch supports configuration over USB interface for advanced features like broadcast storm protection, VLAN settings, ingress/egress limiting, port mirroring, security as well as Cable and Link quality (BER/SNR) diagnostics allowing cable break or short detection and channel quality troubleshooting.

Features

- 2x 10BASE -T1L Ports (3.5mm terminal block)
- 2x 10/100BASE-T(X) Ports (RJ45 Connector).
- Up to 1700m (5577') reach on 10BASE-T1L Ports.
- 18-58VDC or 24VAC External power over a terminal block, or any SPE ports, polarity-agnostic, <2W.
- Power forwarding between SPE Port1 and Port2 supports up to 40 devices in the chain without local power.
- SPE bypass relay connects Port1 and Port2 when local power is out, assuring fail-safe chain communication.
- Industry standard 3.5mm terminal block on SPE ports support field termination for 24-16 AWG.
- 1024-entry forwarding MAC table, static table, 2KB jumbo packet support, 34 MIB counters per port, 64KByte packet buffer.
- Port and MAC based port security, 802.1Q VLAN support, IPv4/IPv6 QoS, port mirroring and IGMP snooping support.
- USB interface for advanced customer settings.
- Fanless construction in rugged ABS plastic.
- Dimensions: 3.5x4.5x1.25" (WxHxD), weight 0.25kg, DIN-rail or panel mounting options.
- -40...+70C temperature range, 5% to 95% relative humidity (non-condensing).

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