



Single Pair Ethernet  
System Alliance



## ZEM206L Dual SPE Media Converter Single Pair Ethernet

### Overview

ZEM206L by Zemfyre Inc. is a dual DIN-rail Media Converter with 2 ports of Single Pair Ethernet (SPE) 10BASE-T1L and 2 ports of 10/100BASE-TX.

The device provides 2 channels of secure Ethernet connectivity for up to 1,700m at 10Mb/s.

ZEM206L allows remote SPE node connection to a regular 10/100BASE-T(X) port of a switch or another host device.

The Media Converter support Link Fault Pass-Through (LFPT) feature, monitoring remote SPE device link status and preventing data loss in case of the link failure.

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

A number of power options include: a local 18-58VDC/9-36VDC/24VAC, power from SPE port (PoDL/SPoE PD) or from RJ-45 port (PoE PD).

ZEM206L supports configuration over USB interface with ZemView™ app for advanced features like speed conversion, VLAN settings, ingress/egress limiting, LFTP enable/disable, flow control, 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/24VAC or 9-36VDC External power over a terminal block, or from any SPE ports, polarity-agnostic, <2W.
- Link Fault Pass-Through (LFPT) feature, monitoring remote SPE device link status and preventing data loss in case of the link failure.
- RJ-45 ports can be set to either fixed 10BASE-T mode or auto-negotiated 10/100BASE-T(X).
- Optional SPE bypass relay connects SPE Ports when local power is out during installation for channels' testing and troubleshooting.
- Industry standard 3.5mm terminal block on SPE ports support field termination for 24-16 AWG.
- Switch based media converter with 1024-entry forwarding MAC table, static table, 2KB jumbo packet support, 34 MIB counters per port, 64KByte packet buffer.
- USB interface with ZemView™ app 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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