



ZEM600L Secure Unmanaged Switch Single Pair Ethernet

Overview

ZEM600L by Zemfyre Inc. is a 6-ports DIN-rail Secure Unmanaged Switch with 4 ports of Single Pair Ethernet (SPE) 10BASE-T1L and 2 ports of 10/100BASE-TX.

This switch provides secure 10Mb/s connectivity for up to 1,700m, optionally delivering power according to Power over Data Line (PoDL) standard.

The patent pending Secure Unmanaged Switch (SUS) technology implemented in ZEM600L provides security, diagnostics, and configuration options.

This technology enables IIoT devices secure Cloud connectivity that facilitates Industry 4.0 adoption.

Media Redundancy/Resiliency RSTP or MRP protocols can be implemented on customer request.

The switch supports Cable and Link quality (BER/SNR) diagnostics allowing cable break or short detection and channel quality troubleshooting.

Built-in Event Logging and Alarm system detects and records all significant events, malfunctions, and run-time errors. This information is used for diagnostics and troubleshooting.

*Patent pending

Features

- 4x 10BASE -T1L Ports (IEC 63171-2 Connector) 2x 10/100BASE-T(X) Ports (RJ45 Connector).
- Up to 1700m (5577') reach on 10BASE-T1L Ports.
- 9-36VDC External power over a terminal block, polarity-agnostic and 1600V isolated, <3W.
- 4-channel PoDL/SPoE/APL Power Ready.
- Trusted Platform Module (TPM2.0) Secure Element allowing data encryption/decryption as well as secure key generation and storage.
- 1024-entry forwarding MAC table, 2KB jumbo packet support, 36 MIB counters per port, 64KB packet buffer.
- Port and MAC based port security, 802.1Q VLAN support, IPv4/IPv6 QoS support.
- NFC Authentication and Configuration with a cell phone or tablet.
- Secure deployment and authenticated Field software upgrade support.
- Secondary/redundant power over USB.
- Fanless construction in rugged ABS plastic.
- Dimensions: 3.5x4.5x1.25" (WxHxD), weight 0.2kg, DIN-rail or panel mounting options.
- -40...+70C temperature range, 5% to 95% relative humidity (non-condensing).

- Industry 4.0 • Process Automation • Factory Automation • IIoT • Transportation •
- Building Security/Automation • Smart City • Robotics • Audio/Video Streaming •
- Efficient Power Delivery + Security + Range + Seamless Data Aggregation

