

SM-2501 & SM-2501G Ethernet Link Protector®

SPECIFICATIONS:

Standards: IEEE 802.3
10/100/1000 Ethernet, RoHS
Compliant

Connectors: Three RJ45
Twisted Pair Jacks: One
Primary, One Backup, One
Protected Station;
One 3.5mm Alarm Contact
Jack;
One 12V DC Power

Warranty: 1 Year Parts and
Labor

Approvals: UL (on Power
Supply), FCC Part 15 Class A
Compliant

Size: 4.3"L x 2.8"W x 1.0"H

Weight: 5 oz excluding
power supply

Power: 110/220VAC, <3W
US or Multifit (optional)

CONTACT:

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PRODUCT DESCRIPTION:

The SM-2501/SM-2501G Ethernet Link Protectors provide a programmable automatic link backup capability to "mission-critical" twisted pair Ethernet links. Protects vital connections to servers, routers, and other key Ethernet devices that require fail-safe link operation. The SM-2501 operates by nonintrusively monitoring a "primary" link and, in the event of a failure, automatically switching to the backup link. The Link Protector does not require any additional network cards in a server and does not require router-level switch-overs if a failure occurs. The backup link can be connected to either another port on a hub or an entirely different hub altogether for greater protection. The unit also functions in a back-to-back configuration for redundant wiring applications.

FEATURES:

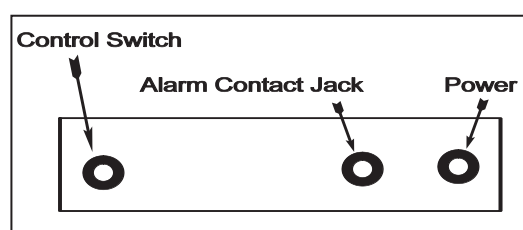
- ◆ Automatic Switching to Backup Link Occurs Within 600 to 1100 Milliseconds to Avoid Protocol-Timeouts
- ◆ Fast Switchover Option
- ◆ Power Over Ethernet Pass Through
- ◆ Automatic Switch-Back to Primary Link on Restoration of Service
- ◆ Supports Auto negotiation for 10/100BaseT (SM-2501) and 10/100/1000BaseT (SM-2501G)
- ◆ Completely Transparent in Normal Operation - Does Not Affect IEEE Repeater Budget Calculations
- ◆ Audible Alarm and Contact Closure Output for Link Failure Notification
- ◆ Default Connection to Primary Link in Case of Power Interruption
- ◆ Outbound Generation of Link Integrity Signals (10BaseT only) to avoid False Alarms on Inactive Links
- ◆ Programmable Switchover Delays
- ◆ Manual Override for Forced Switching
- ◆ Multiple LED Indicators for Status Display
- ◆ Jumper-less System Configuration Stored in Non-Volatile Memory

APPLICATIONS:

- ◆ Provide Backup for Critical Links to Servers, Routers, and other Vital Equipment
- ◆ Protect Against Failures of Primary Link Due to Cable Cuts, Disconnected Cables, and Switch Failures due to Malfunctioning Ports, Line Cards, or Power Supplies
- ◆ Add Redundant Network Wiring in conjunction with other Shore Microsystems Link Protector products.

LED
LT(Link Test) Primary Port
LT(Link Test) Protected Port
LT(Link Test) Backup Port
Alarm/OptA
AlarmAck/OptB
Disabled/OptC
Backup Active/Forced

Power and Alarm Output Connections



Network Diagram

