



## SM-2503 Ethernet Link Protector

### PRODUCT DESCRIPTION

The SM-2503 Link Protector provides a fully managed automatic link backup capability to three "mission-critical" 10BaseT/100BaseTX Ethernet links. The system protects vital connections to servers, routers, firewalls, and other key Ethernet devices that require fail-safe link operation. The SM-2503 operates by non-intrusively monitoring a "primary" link and, in the event of a failure, automatically switches to the backup link; or switching can be controlled externally via SNMP, RS232, Telnet, or front panel commands. The Link Protector does not require any additional network cards in a server; is completely transparent in normal operation; and does not affect IEEE 10BaseT/100BaseT repeater budget. The SM-2503 fills the need for a smaller port count system (than the larger SM-2512 system) without sacrificing management or control features. The SM-2503 is ideally sized for backup of critical servers and/or firewalls and contains sufficient ports to switch the internal and external connections as well as DeMilitarized Zone (DMZ) attached proxy segments. The SM-2503 is designed for either tabletop use or may be mounted in a standard 19" datacom/telecom rack with optional mounting brackets.

### APPLICATIONS

- Provide Automatic Backup for Critical 10BaseT/100BaseTX Links to Servers, Routers, and other Vital Equipment
- Protect Attached Equipment From Failures of Primary Link Due to Cable Cuts, Disconnected Cables, and Hub Failures (Malfunctioning Ports, Plug-in Cards, or Power Supplies)
- Provide Immediate Notification via SNMP of Link Failures
- Control Network Configuration/Topology via SNMP Scripts
- Simplify Network Maintenance Thru Forced Switching to Hot Standby

### SYSTEM FEATURES

- Provides and Manages Redundant Connections for 3 10BaseT/100BaseTX Ports
- Automatic Switching to Backup on Loss of Service
- Automatic Switch-Back to Primary Link on Restoration of Service
- Alarm on Loss of Primary Backup Link and/or Server Links
- Telnet Access to Control, Status, and Setup Information
- BOOTP Automatic Network Address Recovery
- "Ping"-able using ICMP
- Simple Network Management Protocol (SNMP)
- SNMP Trap Message on Alarm for Link Failure Notification
- SNMP MIB II Compliant (RFCs 1155, 1157, 1213)
- Port Switching Capabilities include Individual Port, Group, and Gang Modes
- Forced Switchover to Backup, Port Enable/Disable, and Alarm Acknowledgement Functions

Available Through SNMP, RS232, Telnet and Front Panel Switches

- LED Indicators for Transmit, Receive, and Link Status for 10BaseT Management Port
- System Configuration and Firmware Stored in Non-Volatile Upgradeable EEPROM
- 110/220V Auto Sensing Redundant Power Supplies (-48VDC Redundant Optional)
- RS-232 Console Interface (300 to 38.4K bps) for System Configuration
- Programmable Password Protection
- Compatible with SM-2500/SM-250 Single Port Link Protectors
- Online Help

## PORT FEATURES

- Auto Switch to Backup on Loss of Service
- Auto Switch to Primary on Restoration of Service
- Alarm Notification Via SNMP Traps
- Default Connection to Primary Link on Loss of Power
- Enable/Disable of Automatic Switching
- Capability to Force Port to Backup Condition
- Front Panel Display of Link Status on Primary, Backup, and Server Connections; Alarm Status; Active Connection Status (Primary or Backup); Port Enable/Disable Status; Override Status

## SPECIFICATIONS

- Standards: IEEE 802.3 10BaseT/100BaseTX Compliant
- Connectors: 3 RJ45 Twisted Pair Per Port for each of 3 Ports, 1 RJ45 Management Port, 1 RJ45 Secondary Management Port, 1 3-Wire 110/220V AC Power or Optional -48VDC 2-Pin Screw Terminal Power
- Dimensions: 2.7" High x 9.0" Deep x 12.0" Wide
- Approvals: FCC Part A Compliant
- Warranty: 1 Year Parts and Labor

---

Shore Microsystems, Inc., 45 Memorial Parkway, Long Branch, NJ 732-870-0800, 732-870-1912(Fax),  
www.shoremicro.com

---