

# SM-2402/04F Multiport Programmable Bypass Switch

## SPECIFICATIONS:

### Standards:

IEEE 802.3 1000BaseF  
Compliant, Fully RoHS  
Compliant

### Connectors:

Four LC Connectors per Port,  
One Router, Two Server  
(Appliance), One Switch, DB9  
RS-232 Terminal, USB Port,  
2 3-Wire 110/220V AC Power

### Power:

Two 100-120/200-240V AC  
0.50-0.25A 50-60 Hz  
Autosensing Internal Power  
Supplies

### Warranty:

1 Year Parts and Labor

### Approvals:

UL (on Power Supply), FCC  
Part 15 Class A Compliant,  
CE, CB

**Size:** 19.0"L x 12.0"W x  
1.75"H

### Weight:

2 Port: 7.0 lbs 10.8 oz  
4 Port: 8.0 lbs 2.6 oz

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## PRODUCT DESCRIPTION:

The SM-2402/04F Multiport Programmable Bypass Switch provides the ability to automatically bypass a malfunctioning network appliance. The unit operates in a standalone mode or as an intelligent watchdog that expects periodic interaction with a properly-functioning network appliance via a serial communication link. In the event of a failure, the unit removes the failing device from the Ethernet link. After bypassing (removing) the failing device, the SM-2402/04F directly connects the two external Ethernet ports to reestablish end-to-end communications. The unit is available in several configurations for end-user or OEM applications.

## FEATURES:

- ◆ Patented Design Quickly Bypasses Failed 2 or 4 Port Group Network Appliances
- ◆ Independent Watchdog Function Responds to System Failures
- ◆ Completely Transparent to Ethernet Link Traffic
- ◆ Simple Control Interface via Serial or USB Connection
- ◆ Maintains End-to-End Connectivity thru Power Failures
- ◆ Programmable Switchover Delays
- ◆ Flash Firmware Upgradeable
- ◆ Supports Gigabit Fiber (1000BaseF SX, LX Optional) Ethernet
- ◆ 1U Chassis with Redundant Power

## 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 Hub Failures from Malfunctioning Ports, Plug-in Cards, or Power Supplies

## FAILURE DETECTION/ DESIGN FEATURES:

The SM-2402/04F will switch upon failure by detecting a loss of communication with a serial control script on the appliance. With the use of the script and the RS232 and USB console capabilities, the SM-2402/04F will switch on loss of communication. The SM-2402/04F is compatible with scripts written for any OS and can be designed to switch to bypass using either a simple loss of script or more elaborate definition of appliance malfunction. Shore Microsystems can provide sample scripts for Linux-based Network Appliances but is compatible with scripts written for any OS. The bypass device does not add a single point of failure to the network. By incorporating Shore Microsystems's "Straight Through Wire"™ Technology into the SM-2402/04F Programmable Bypass Switch, the device is completely transparent to the network, therefore is independent of network protocols.

