



Model #SM-2801C-NE Programmable Bypass Switch Copper Interface Standard, Fiber available as custom order

The SM-2800 Series of Universal Ethernet Bypass Switches provide automatic bypass capability up to twelve 10BaseT/100BaseTX/1000BaseT or up to six 1000BaseSX inline Ethernet appliances.

The system is based on Shore Microsystems' technologies developed to sustain vital connections to/from in-line appliances and integrates into Shore's Network Protection Chassis System. The system operates independently from the inline appliance and does not require periodic interaction with a properly functioning network appliance.

In the event of a failure, the unit removes the malfunctioning device from the Ethernet link and re-connects the two external Ethernet ports to transparently reestablish end-to-end communications. The system is available in several configurations with regard to media and port count requirements.

Key Uses

- Provide Automatic Bypass for Critical 10BaseT/100Base/1000T and 1000BaseFX Appliances
- Protect Attached In-Line Equipment From Being Single Points of Failure

Key Benefits

- Universal Application Regardless of Appliance Manufacturer
- "Packet Spy" allows Appliance Bypass on Loss of Traffic
- Appliance Bypass on Loss of Link
- Maintains End-to-End Connectivity through Power Failures
- Quickly Bypasses Failing Network Appliances within 50 milliseconds
- Multiple Port Grouping Options
- Programmable Switchover Delays
- Completely Transparent to Ethernet Link Traffic
- Simple Control Interface via Serial Console and/or 10 BaseT Ethernet management port
- Flash Firmware Upgradeable
- Standard Support for 10/100/1000BaseT and 1000Base SX
- Programmable TAP Mode

Specifications

- Standards: IEEE 802.3 10BaseT/100BaseTX/1000BaseT Compliant
- IEEE 802.3u 1000BaseFX Compliant
- Connectors: 4 RJ45 Twisted Pair
- 1 RJ45 Console Port
- 1 RJ45 Agent Port
- 1, 3-Wire 110/220V AC Power (2 port Network Protection Chassis, NPC-2)
- Dimensions: 1.75" High x 10.75" Deep x 19.0" Wide (NPC-2)
- Approvals: FCC Part A Compliant, ETL US, ETL Canada, CE

Chassis Features

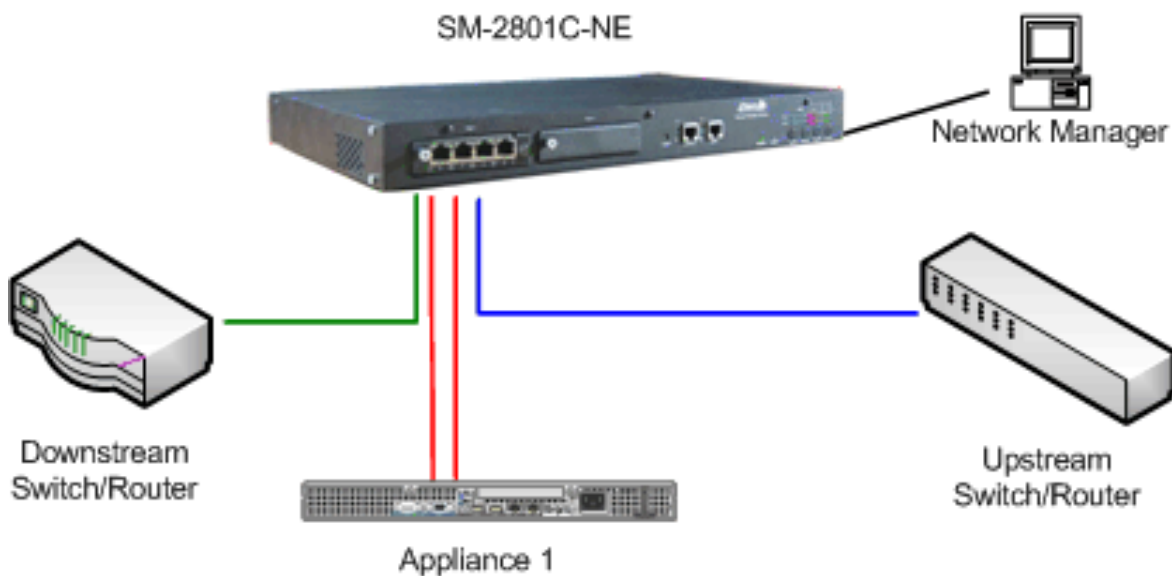
- Card Cage Design Allows Scalability for Network Size
- Removable Card Design Allows for Simple Maintenance
- 1U rack mountable
- **Interfaces:**
 - Copper: standard interface
 - Fiber: multi-mode and single-mode fiber available as a custom order

Failure Detection and Design Features

The SM-2800 switches upon failure by detecting a loss of link, loss of packets, and loss of power of any inline appliance. The bypass switch is designed to maintain operational link state to all ports (except in the power down state) making the switchover seamless and unnoticed by users. By constantly monitoring link status, the SM-2801C-NE can automatically switch to the bypass state on loss of signal. Shore's "Packet Spy" technology switches on loss of packets through the inline appliance. Packet Spy non-obtrusively monitors for packet activity and switches to bypass based on a variety of user configurable parameters. This technology also generates packets to prevent unnecessary switching during network inactivity. The SM-2801C-NE Bypass Switch incorporates its "Straight-Through Wire"™ technology which allows the bypass device to become completely transparent to the network, and thereby not sustaining network downtime.

Installation

The SM-2801C-NE is installed inline with your NetEqualizer, and will act as an automatic bypass in the event your NetEqualizer goes down. In the diagram below, the NetEqualizer is Appliance 1.



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