

# SM-2701CFR (Rate Converting Copper to Fiber Link Protector Card) Network Protection Chassis

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#### OTHER CARDS AVAILABLE:

Model #: SM-2701C  
Description: Advanced Copper Card

Model #: SM-2701F  
Description: Fiber Card

Model #: SM-2701CS  
Description: Standard Copper Card

Model #: SM-2701FB  
Description: Fiber Card with Optical Bypass

Model #: SM-2701IO  
Description: Contact Closure Card

Model #: SM-2701S  
Description: RS-530 Serial Card

Model #: SM-2701RF  
Description: RF Coaxial Card

Model #: SM-2701F10G  
Description: 10G Fiber Card

Model #: SM-2701CM  
Description: MPEG Packet Monitor Card

Model #: SM-2801C  
Description: Copper Bypass Card

Model #: SM-2801F  
Description: Copper or Fiber GBIC Optical Bypass Card

Model #: SM-2801F10G  
Description: Fiber Optical Bypass Card



Fully RoHS Compliant  
Weight: 6.0 oz

## PRODUCT DESCRIPTION:

Each SM-2701CFR copper/fiber port card provides two LC style duplex fiber connectors intended for primary and backup connections and one protected RJ-45 copper Ethernet port operating at 100Mb/sec full duplex. Single mode fiber versions are available by special order.

The SM-2701CFR rate converts incoming and outgoing data to match the appropriate interface speed. Using IEEE 802.3 pause capability, the SM-2701CFR generates flow control (pause) frames that are transmitted to upstream 1 GB devices to prevent packet loss due to rate conversion.

The SM-2701CFR detects link activity and an alarm is generated upon link failure. If the primary link is lost, the SM-2701CFR will automatically switch to the backup link. By default, the switch is completed within 50 milliseconds after a link problem is detected. Once the primary link is restored, the server port will revert to the primary link automatically. The link may also be forced to switch to the backup port manually.

## KEY BENEFITS:

- ◆ Auto Switch to Backup on Loss of Connectivity
- ◆ Auto Switch to Primary on Restoration of Connectivity
- ◆ Supports Switching to Backup on Loss of Traffic Flow
- ◆ External Watchdog Trigger Capability via SNMP
- ◆ Capability to Force Port to Backup Connection
- ◆ Enable/Disable of Automatic Switching (Manual Override)
- ◆ Copper Physical Layer (Protected Port) – 100BaseT Full Duplex
- ◆ Fiber Physical Layer (Primary & Backup Ports)- 1000SX, 1000LX (Optional)

## FIRMWARE FEATURES:

Corporate System (Base):	Enterprise System:
CRC Error Reporting	All Corporate System Features
Normal Mode - Port Acts Independently	Mirror Mode - Cards Provide Dual Output
Group Mode - Ports Act as a Group	Slave Mode (Port)
Latch Mode - Stays in the Backup/Bypass state until Manual Restored	Slave Mode (Group)
Enhanced Latch Mode - Latch is Automatically Released on Failure of Backup Link (Link Protection Only)	Fast Switchover via MAC Address (Link Protection Only)
Reverse Mode - Reversed Logic (Backup Ports are Default)	Total and Any Group Switch Modes
Backup Switchover Triggered by Lack of Packets on Active Link	External Watchdog Scripting

