



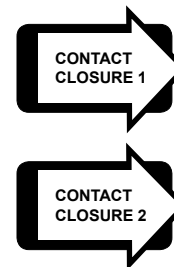
**MERIDIAN**  
TECHNOLOGIES

ST/SR-2C-x

DigiSlim™



## Digitally Encoded Two Channels of Contact Closure



### FEATURES:

- One Slot Digital Module Design
- Real Time Data Transmission
- 2 User-selectible, Contact Mapping (N.O, N.C)
- Wide Optical Dynamic Range: Eliminates Need for Optical Attenuators
- Laser Based Systems for Multimode and Singlemode
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- *SpectraSmart*™ Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics and Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Card
- Laser Back - Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range.
- Meets EIA RS-170, RS-343A Formats
- 3-pin Screw Terminal Connector for Contact Closure

### DESCRIPTION:

This module in the ST/SR-2C-x product family incorporates an all-digital encoding technology that transmits two simplex contact closures. Convenient Screw Terminal connectors is used for easy connection of the contact interface. Status indicators provide visual indication of the operational status of the contact. This single fiber, laser based system is available in both, Multimode and Singlemode modules. The versatility of the ST/SR-2C-x series is enhanced by *SpectraView* selectable on-board contact closure test signal generator and *SpectraSmart*, an optional PC Based Network Diagnostic System. If greater diagnostic capability is required, the ST/SR-2C-x series is also available with Meridian's *SpectraSmart* Network management and diagnostic PC based system. See the *SpectraSmart* or *SpectraView* brochures for additional details.

### CONFIGURATIONS:

The ST/SR-2C-x product family is available as rack mount cards and modules that can be installed in either Meridian's desk chassis or in 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These systems can be made a standalone system by using the SR-500/S, SR-1000/s, 1 or 2 slot desk / wall mount chassis. See subrack brochure for additional details.

### MARKETS:

- ✓ Intelligent Transportation Systems (ITS)
- ✓ Security and surveillance
- ✓ Access Control

SPECIFICATIONS:

Contact Closure

Rate ..... 10 Hz.(Per Channel)  
Contact Rating ..... 0.3A, 30V AC / DC  
Contact Bounce Time ..... 5 ms

Optical

Fiber Data Rate ..... 25 Mb/s

Connectors

Optical ..... ST, FC  
Power (module) ..... See SR-500 Brochure for details  
Contact Closure ..... 3-pin Screw Terminal

Power \*\*

Card ..... 4 Watts

Quality

MTBF ..... >180,000 hours @ Ground Fix  
35°C per MIL217F

Indicators (LEDs)

1 - Green ..... Power On  
1 - Bi-color ..... TX Carrier/ Laser Over Current  
1 - Bi-color ..... RX Carrier - Present / Error  
2 - Green ..... Contact Closure Present

Physical

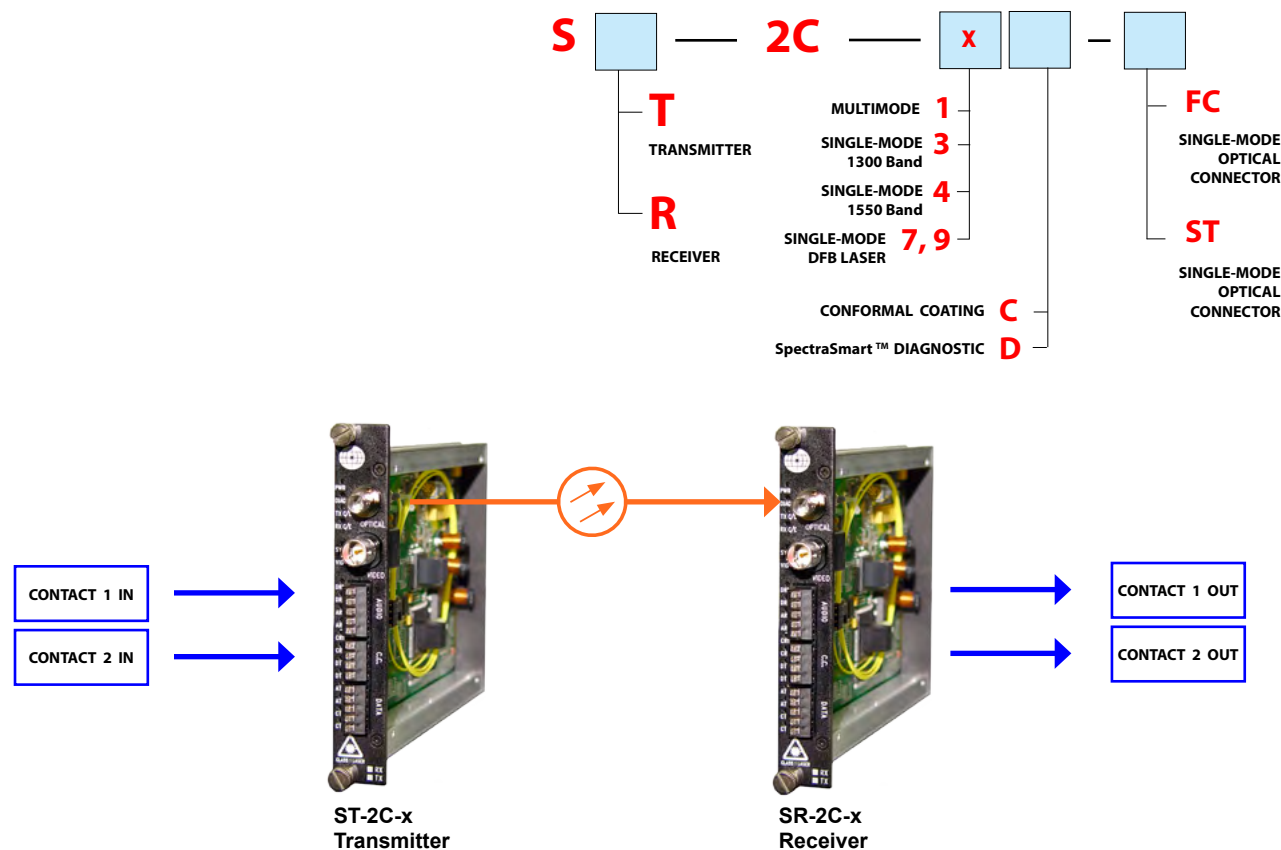
Dimensions (Card) ..... 160 mm (6.3”) D, 127 mm (5”) W  
20mm (0.80”) W  
Weight (Card) ..... 450 gms (16 Oz)  
No. of Slots ..... 1  
Module ..... See SR-500 Brochure

Enviromental

Operating Temperature ... -34°C to +74°C  
Storage Temperature ..... -55°C to +85°C  
Relative Humidity ..... 0 to 95% Non-condensing

\* measured @ max. optical budget  
\*\* Due to variations of drivers and diagnostic options, power shown @ max value

Part Numbers:



OPTICAL:

Meridian Optical Code	Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)	Max Distance (Km)
1	Multimode (Laser) 62.5 / 125	-5	-26	21	1300	ST	26	7
3	Singlemode (FP Laser) 9 / 125	-5	-26	21	1310	ST, FC	26	60
4	Singlemode (FP Laser) 9 / 125	-5	-26	21	1550	ST, FC	26	60
7, 9	Singlemode (DFB Laser) 9 / 125	+1	-26	27	1310, 1550	ST, FC	26	80