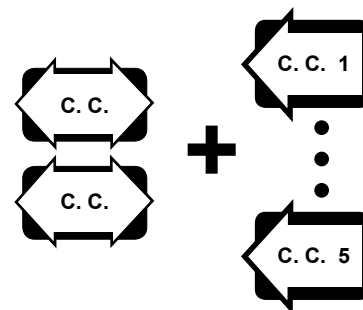


Digitally Encoded Two Bi-Directional and  
Five Returning Channels of Contact Closure



### FEATURES:

- Two Bi-directional and Five Returning Contact Closure Channels
- Supports RS-422, Manchester or Bi-Phase
- Meets RS-250C transmission specifications
- 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 for performance parameters
- Hot swappable cards
- Laser Back - Biased Photo Detector Circuitry for stable optical output over full temperature range
- Meets NEMA TS1 / TS2 & CALTRANS Specifications
- Meets EIA RS-170, RS-343A formats
- DC to 1 Mb/s data rate
- DB-25 Connector for Contacts

### DESCRIPTION:

The ST-2C/7C-51/53 & SR-2C/7C-53/51 products incorporate digital encoding technology. This fiber optic modules transmits and receive 2 channels of Bi-directional and 5 channels of Returning Contact Closure over two Singlemode or Multimode fibers. These Contact Closure channels can be individually configured as either Normally Open (N.O.) or Normally closed (N.C.). The functionality of DigiFlex series are further enhanced by their compatibility with Meridian's PC based SpectraSmart, Network Management and Remote Diagnostic Software System. SpectraSmart supervises the operating parameters of the transmission system such as status on video levels, sync, carrier detect, voltage, temperature, optical levels, data activity etc. See the SpectraSmart brochure for more details.

Tx side:

ST-2C/7C-51/53

- 2-ch Contact Closure = Tx @ 1510nm & Rx @ 1530nm
- 5-ch Contact Closure = Rx @ 1530nm

Rx side:

SR-2C/7C-53/51

- 2-ch Contact Closure = Tx @ 1530nm & Rx @ 1510nm
- 5-ch Contact Closure = Tx @ 1530nm

### CONFIGURATIONS:

The DigiSlim family is available as rack mount cards and modules that can be installed in all of Meridian's card chassis, desk chassis and 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-1000/s, 2 slot desk / wall mount chassis (87VAC-264VAC)

### MARKETS:

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

SPECIFICATIONS:

Contact Closure

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

Optical

Fiber Data Rate	500 Mb/s
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Connectors

Optical	ST, FC
Power	See SR-500 Brochure for details
Contact	DB-25 Female

Power \*\*

Card	7 Watts
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Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	RX optical signal - Present / Absent
2 - Green	Transmit Contact Closure
2 - Green	Recieve Contact Closure

Physical

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

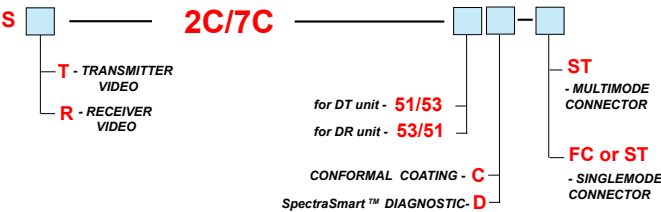
Enviromental

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

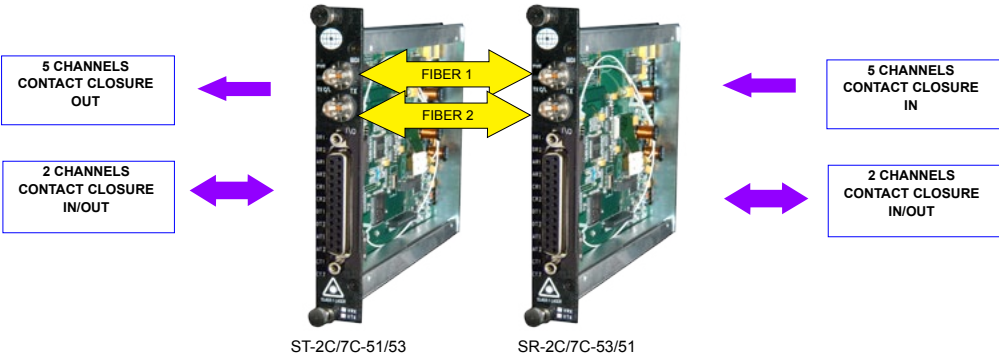
Quality

MTBF	>240,000 hours @ Ground Fix 35°C per MIL217F
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Part Numbers:



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



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Singlemode (DFP Laser) 9 / 125	-3	-24	21	1510 / 1530	ST, FC	24