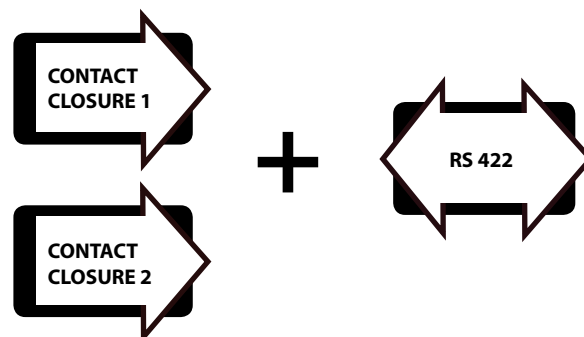




Digitally Encoded Two Uni-directional Contact Closure and One Full Duplex RS-422 Data (Manchester, Bi-Phase) over two single-mode fibers



FEATURES:

- One Slot Digital Module Design
- Real Time Contact and Data Transmission
- Meets RS-250C Short Haul Transmission Specifications
- 2 User-selectible, Contact Mapping (N.O., N.C.)
- Full Duplex RS-422 Data Channel
- Wide Optical Dynamic Range: Eliminates Need For Optical Attenuators
- 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
- ST, FC Optical Connector
- Hot Swappable Cards
- Laser Back - Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range.
- Meets EIA RS-170, RS-343A Formats
- DB25F connector for Contact/Data interfaces

DESCRIPTION:

This ST-2C1F/1F-55/57 and SR-2C1F/1F-57/55 products incorporate an all-digital encoding technology and transmit following signals over two single-mode fibers:

Tx side:

ST-2C1F/1F-55/57

- 2-ch Contact Closure = Tx @ 1550nm
- 1-ch RS-422 Data = Tx @ 1550nm & Rx @ 1570nm

Rx side:

SR-2C1F/1F-57/55

- 2-ch Contact Closure = Rx @ 1550nm
- 1-ch RS-422 Data = Rx @ 1550nm & Tx @ 1570nm

The Contact Closure channels can be configured as either Normally Open (N.O.) or Normally Closed (N.C.). The standard DB25F connector is provided for the contact/data interfaces.

The **DigiSlim** systems are also compatible with Meridian's *SpectraSmart* Network management and diagnostic PC based system. See the *SpectraSmart* brochure for additional details.

CONFIGURATIONS:

The **DigiSlim** products is available as rack mount cards that can be installed in either Meridian's desk chassis or in 19" racking frames. Shelf/surface mount modules are also available. 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, SR-1000, 1 or 2 slot desk / wall mount chassis (87 VAC- 264VAC)

MARKETS:

- Intelligent transportation systems (ITS)
- Security and surveillance
- Access Control

SPECIFICATIONS:

Contact Closure

Formats	Normally Open (N.O.) or Normally Closed (N.C.) - jumper selectable
Rate	10 Hz.(Per Channel)
Contact Rating	0.3A, 30V AC / DC
Contact Bounce Time	5 ms

Data

Formats	RS-422, Manchester, Bi-Phase
Data Rate	DC to 1Mb/s
Bit Error Rate	10 ⁻⁹ *

Optical

Fiber Data Rate	250 Mb/s
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Connectors

Optical	ST - MM(default), FC- SM(default)
Contacts/Data.....	DB25 (Female)
Power (module)	See SR-500 Brochure for details

Power **

Card	6 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
2 - Green	Contact Closure Present
1 - Green	Tx Data Present
1 - Green	Rx Data Present

Physical

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

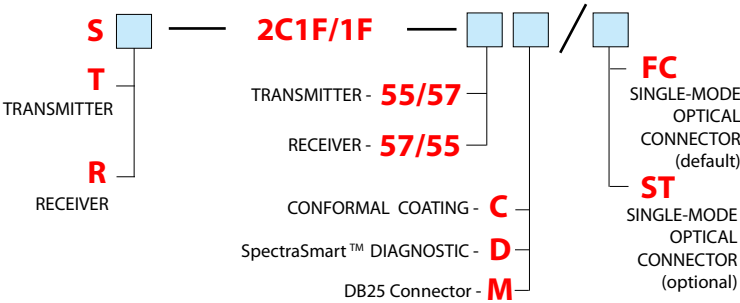
Environmental

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

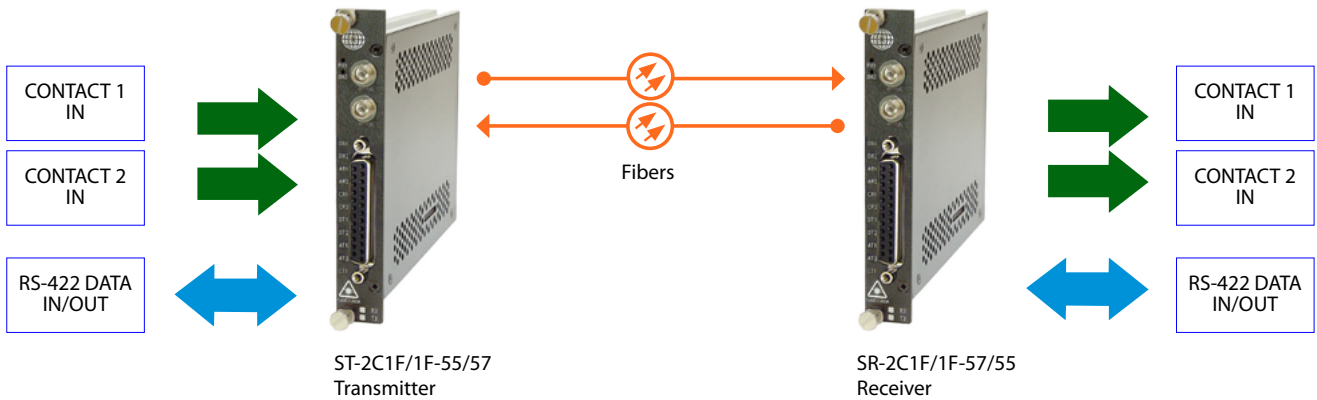
Quality

MTBF	>170,000 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)	Max Distance (Km)
Singlemode (DFB Laser) 9 / 125	+1	-24	25	1550. 1570	ST, FC	24	70