

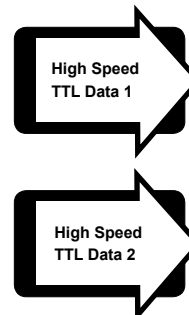
Digitally Encoded Two Channels of Unidirectional High Speed TTL Data



Card w/ Screw Terminals
Data Connectors



Card w/ BNC Data
Connectors



FEATURES:

- One slot digital module design
- Real Time Data Transmission
- Unidirectional High Speed TTL Data
- 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
- 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
- Screw Terminals or BNC Type Connector for Data

DESCRIPTION:

This module in the *DigiSlim™* product family incorporates an all-digital encoding technology that transmits two simplex, High Speed TTL data channels. These single fiber, laser based systems are available in both, Multimode and Singlemode modules. The *DigiSlim™* series is also compatible with Meridian's *SpectraSmart* Network management and diagnostic PC based system. See the *SpectraSmart* brochure for additional details.

CONFIGURATIONS:

The *DigiSlim™* 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, SR-1000, 1 or 2 slot desk / wall mount chassis (87 VAC- 264VAC)

MARKETS:

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

SPECIFICATIONS:

Data

Formats	TTL
Data Rate.....	DC to 1Mb/s
Bit Error Rate	10 ⁻⁹ *
Skew/PWD	< 40 nS

Optical

Fiber Data Rate	250 Mb/s
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Connectors

Optical	ST - MM(default), FC- SM(default)
Power (module)	See SR-500 Brochure for details
Data	Screw Terminals or BNC

Power **

Card	3 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	Data Present

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

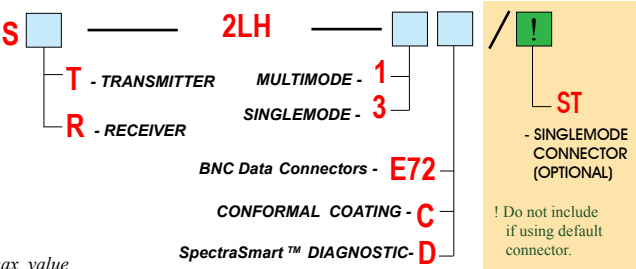
Enviromental

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

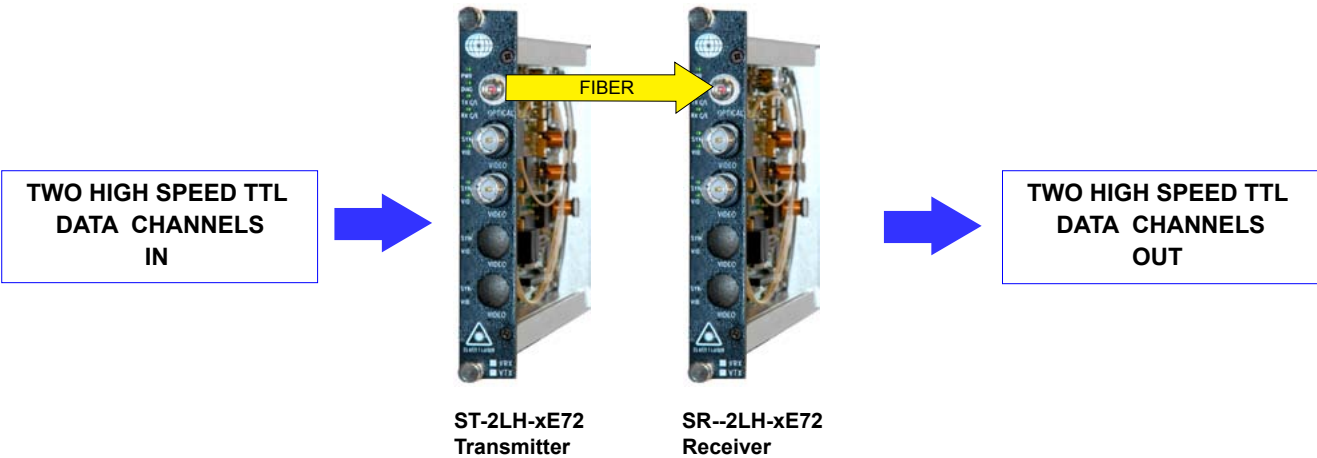
Quality

MTBF	>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:

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	8
3	Singlemode (FP Laser) 9 / 125	-5	-26	21	1310	ST, FC	26	60