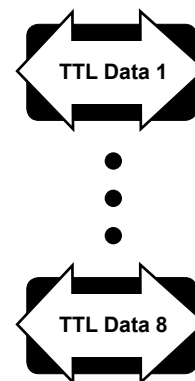


Digitally Encoded Eight Channels of Bi-directional TTL Data



FEATURES:

- Two slot digital module design
- Real Time Data Transmission
- Bi-directional 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
- DB9 Type Connector for Data

DESCRIPTION:

These the *DigiFlex™* product family cards are incorporate an all-digital encoding technology and transmit Eight Full-Duplex TTL Data channels.

Both, Multimode and Single-mode, one fiber versions are available.

The *DigiFlex™* series is also compatible with Meridian's *SpectraSmart™* Network management and diagnostic PC based system. See the *SpectraSmart* brochure for additional details.

CONFIGURATIONS:

The *DigiFlex™* 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-1000, 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 125 Kb/s
Bit Error Rate	10 ⁻⁹ *

Optical

Fiber Data Rate	250 Mb/s
-----------------------	----------

Connectors

Optical	ST, FC
Power (module)	See SR-500 Brochure for details
Data	DB 9 (Female)

Power **

Card	2 Watts
------------	---------

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
16 - Green	Data Present

Physical

Dimensions (Card)	20(W) x 127 (H) x 160 (D) mm (0.8 x 5.0 x 6.3 inch)
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

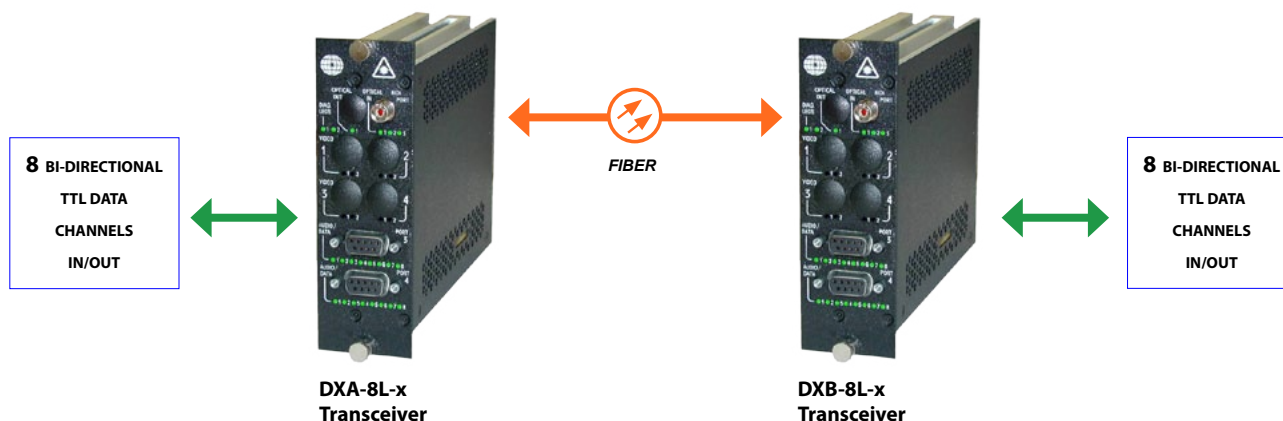
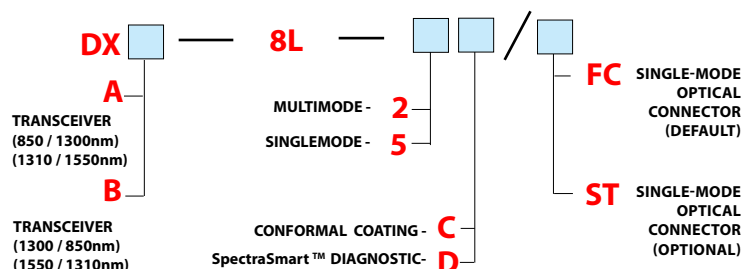
Quality

MTBF	>170,000 hours @ Ground Fix 35°C per MIL217F
------------	---

* 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)
2	Multimode (FP Laser) 62.5 / 125	-5	-26	21	1300/850	ST	24	4
5	Single-mode (FP Laser) 9 / 125	-5	-26	21	1310/1550	ST, FC	24	60

Meridian Technologies Inc.

700 Elmont Road. • Elmont, NY 11003 • 516. 285. 1000 • FAX 516. 285. 6300 • E-mail sales@meridian-tech.com
www.meridian-tech.com

ver 04/2016 B