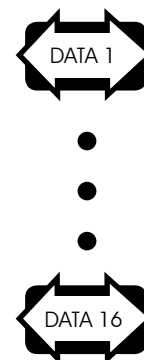


Bi-directional Sixteen RS-232 Data Channels  
 Transceiver using the Industry Standard Small  
 Form Pluggable (SFP) Optical Device



### FEATURES:

- Sixteen RS-232 Data Channels
- Multimode, Singlemode and CWDM, over One or Two Fibers via SFP modules
- 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
- LC, SC Optical Connector (SFP dependent)
- Hot Swappable Rack Cards
- Back - Biased Photo Detector Circuitry for Stable Optical Laser Output Over Full Temperature Range
- Meets NEMA TS1 / TS2 & CALTRANS Specifications Utilizes Internal Switching Power Supplies
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- DB 9 Type Connectors for Data
- DC to 125 Kb/s Data Rate
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed

### DESCRIPTION:

The DX-16D/16D-SFP series is fiber optic transmission system that takes advantage of Meridian's digital encoding technology and transmits following signals:

- Sixteen Channels of RS-232 Data

System is employing the industry standard Small Form Pluggable (SFP) optical device. This SFP gives you the option for either singlemode, multimode or CWDM wavelength selections by simply plugging in the appropriate SFP module.

The versatility of this system is enhanced by its 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 present etc. See the SpectraSmart brochure for more details.

### CONFIGURATIONS:

The DigiFlex™ product family is available as rack mount cards suitable for mounting in Meridian card chassis and utilizes 5 card slots. These products can easily be converted to a Standalone module with the SR-1002, Desk / Wall mount chassis (87- 264 VAC). See SR-1002 documentation for further details.

### MARKETS:

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

## SPECIFICATIONS:

### Data

Formats	RS-232D
Rate	DC to 125 Kb/s* (Per Channel)
Bit Error Rate	10 <sup>-9**</sup>

### Power\*\*

Card	8 Watts
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### Connectors

Data	DB 9 F
Optical	LC, SC - SFP dependent
Power	See SR-1000 Spec. Sheet

### Optical

Bandwidth	250 Mb/s.
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### Environmental

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

### Indicators (LEDs)

1 - Green	Power On
2 - Bi-color	TX Carrier/ Laser Over Current
2 - Bi-color	RX Carrier - Present / Error
2 - Bi-color	RX optical signal - Present / Absent
1 - Green	Data Present ( One Per Channel)
1 - Bi-color (Optional)	Card Diagnostics

### Physical

<b>Dimensions:</b>	
Card	160 mm (6.3") L, 100 mm (4") W 44mm (1.7") H

<b>Weight:</b>	
Card	450 g (16 oz.)
Number of Rack Slots	2

### Quality

MTBF	>200,000 hours, @ 35°C Ground Fix as per MIL 217F
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### Part Number:

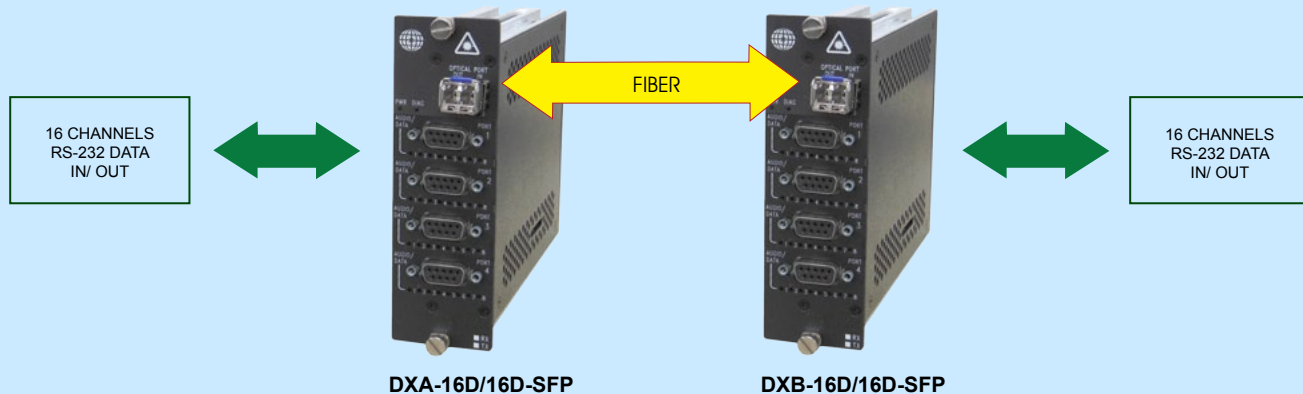
**DX — 16D/16D — SFP —**

Symmetrical Transceiver  
Fibers amount - SFP dependant

**C** - CONFORMAL  
COATING  
**D** - SpectraSmart™  
DIAGNOSTIC

\* measured @ max. optical budget

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



## SFP OPTIONS:

The SFP series products are available for both singlemode and multimode fiber applications and either one or two fiber versions. Recommended optical speed for this product is 155 Mb/s .

For more specifications on a SFP optical devices go to SFP data sheet clicking [here](#) or

go to: **WWW.MERIDIAN-TECH.COM -> PRODUCTS -> ACCESSORIES -> SFP OPTICAL DEVICES**