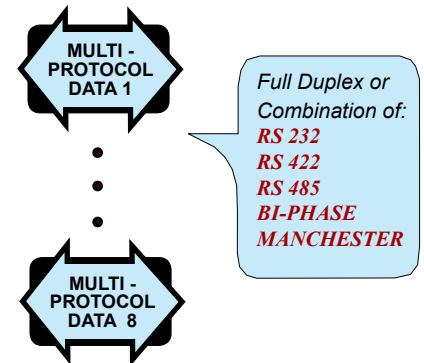


8 Channel Full Duplex Switch-Selectable Multi-Protocol Data Modem



FEATURES:

- Simultaneously transmits multi - protocol data over one fiber
- Mix and Match Data formats Options on the same System
- No user adjustments or selections necessary
- 8 switch-selectable, multi-protocol data channels. Compatible with RS-232, RS-422, RS-485, Manchester, bi-phase
- Wide optical dynamic Range: Eliminates Need For Optical Attenuators
- Laser Based Systems for Multimode and Singlemode fiber applications
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- SpectraSmart™ Network Management Compatible - PC Based Diagnostics
- Local LED Status Indicators to Monitor Critical System Diagnostics for Performance Parameters
- Laser Back - Biased Photo Detector Circuitry for Stable Optical Output Over Full Temperature Range
- DB 9 Type Connector

DESCRIPTION:

The DX-8G series products incorporate Real time digital encoding technology. The DX-8G fiber optic module is capable of Simultaneously transmitting up to 8 full-duplex channels of switch-selectable multi-protocol data (RS-232, RS-422 and RS-485 (2 or 4-wire)) over one optical fiber. These data formats are also compatible with bi-phase & Manchester encoding schemes. Both Multimode and Singlemode fiber versions are available. Meridian's digital product line incorporates plug-in personality signal cards to easily configure a wide variety of module types. The functionality of the DX-8G series products is enhanced by their compatibility with Meridian's PC based SpectraSmart Network Management & Diagnostic Software system. SpectraSmart supervises the operating parameters of the transmission system such as the status on video levels, sync, digital carrier detect, voltages, temperatures, optical levels etc. See SpectraSmart brochure for further details.

CONFIGURATIONS:

The DX -8G product family is available as rack mount cards and modules that can be installed in Meridian's desk chassis or 19" racking frames. This system can be configured in either star (module to rack) or trunking (rack to rack) configurations. These modems can be converted to surface mount modems by using the SR-1000/s, 2 slot desk / wall mount chassis (87VAC-264VAC).

MARKETS:

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

SPECIFICATIONS:

Data

Formats	RS-485, RS-422, RS-232
Data Rate RS-422 / 485	DC to 1Mb/s
Data Rate RS-232	DC to 125 Kb/s
Bit Error Rate	10 ⁻⁹ *

Optical

Fiber Data Rate	500Mbps
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Connectors

Optical	ST - MM FC - SM for ST / SM please Specify
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Data	DB9 Female
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Power

Card	20 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
16 - Green	Data Present

Physical

Dimensions:	
Card	160 mm (6.3") L, 105 mm (4") W 100mm (1.7") H
Weight:	
Card	450 gms (16 Oz)
No. of Slots	5

Enviromental

Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Humidity	0 to 95% Non-condensing
Relative Humidity	(98% with Conformal Coating, with min. condensation)

Quality

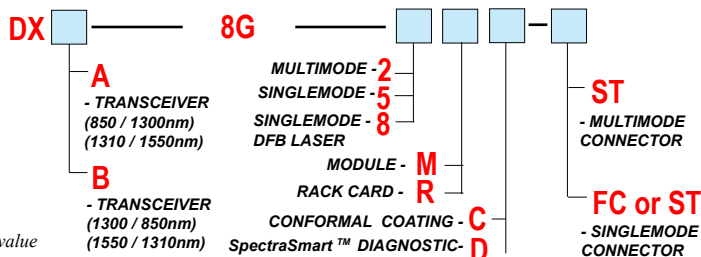
MTBF	>200,000 hours @ Ground Fix 35°C per MIL217F
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Part Numbers:

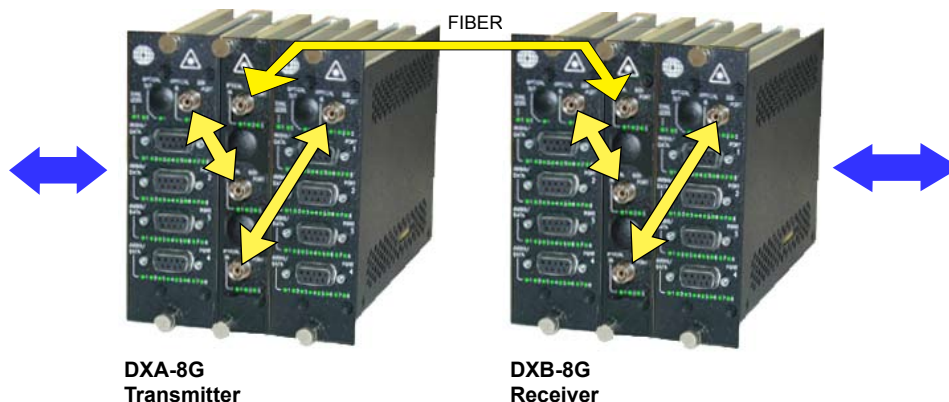
DXA-8G-2. Transmitter, 850nm/ 1300nm, MM, Laser
 DXB-8G-2. Receiver, 1300nm/ 850nm, MM, Laser
 DXA-8G-5. Transmitter, 1310nm/1550nm,SM, Laser
 DXB-8G-5. Receiver, 1550nm/1310nm,SM, Laser
 DXA-8G-8. Transmitter, 1310nm/1550nm,SM, DFB
 DXB-8G-8. Receiver, 1550nm/1310nm,SM, DFB

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

Part Numbers:



8 FULL DUPLEX CHANNELS OR COMBINATION OF RS-232, RS-422, RS-485, BI-PHASE OR MANCHESTER IN/OUT



8 FULL DUPLEX CHANNELS OR COMBINATION OF RS-232, RS-422, RS-485, BI-PHASE OR MANCHESTER IN/OUT

OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Receiver Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP Laser) 62.5 / 125	-3	-24	21	1300 / 850	ST	24
Singlemode (FP Laser) 9 / 125	-3	-24	21	1310 / 1550	ST, FC	24
Singlemode (DFB Laser) 9 / 125	+3	-24	27	1310 / 1550	ST, FC	24

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