Digital Full Duplex of Two RS-485 (2 wire) Data Channels





FEATURES:

- 2 Channels of Full Duplex RS 485 (2 wire)
- 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
- SpectraSmartTM 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 NEMA TS1 / TS2 & CALTRANS Specs.
- DB 9 Type Connector for Data
- DC to 1 Mb/s Data Rate

DESCRIPTION:

The DXA/DXB-2J-x product is a reliable, cost effective, one fiber, state-of-the-art, 2 Channels of full duplex RS-485 (2-wire) Data transmission system. This fiber optic system transmits in real-time on one Singlemode or Multimode fiber. The functionality of DXA/DXB-2J-x system are further enhanced by their 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 Audio Parameters, carrier detect, voltage, temperature, optical levels, data activity etc. See the SpectraSmart brochure for more details.

CONFIGURATIONS:

The DXA/DXB-2J-x system is available as rack mount cards and modules that can be installed in all of Meridian's card chassis, desk chaises and 19" racking frames. These 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/S, 2 slot desk / wall mount chassis (87VAC-264VAC)

MARKETS:

- √ Security and Surveillance
- √ Access Control Systems
- √ Intercomms

SPECIFICATIONS: -

Data

Formats	RS-485 (2 wire			
Data Rate	DC to 1Mb/s			
Bit Error Rate	10-9*			

Optical Fiber Data Rate

270 Mb/s

Connectors

Video	75 Ohm BNC (Gold Center Pin)
Optical	ST, FC
Power	See SR-1000 Brochure for details
Data & Audio	DB9 Female

Power **

Card 8 Watts

Quality

MTBF >240,000 hours @ Ground Fix 35°C per MIL217F

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
4 - Green	Data Present

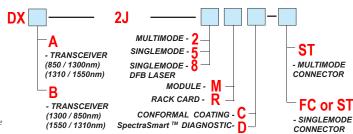
Physical

Dimensions:	
Card	160 mm (6.3") L, 100 mm (4") W
	44 mm (1.7") H
Weight:	(,(,
Card	450 gms (16 Oz)
No. of Slots	2.

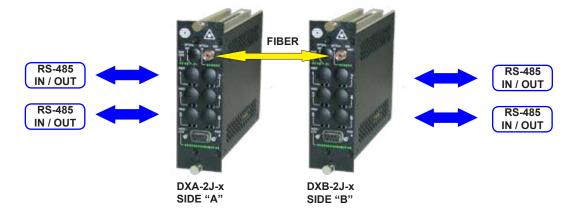
Enviromental

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

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)
Multimode (FP Laser) 62.5 / 125	-3 / -5	-23 / -22	20 / 17	1300 / 850	ST	23
Singlemode (FP Laser) 9 / 125	-3 / -3	-23 / -23	20 / 20	1310 / 1550	ST, FC	23
Singlemode (DFB Laser) 9 / 125	+3 / +3	-23 / -23	26 / 26	1310 / 1550	ST, FC	23