RS-232 DATA 1

RS-232 DATA 3



Transceiver with Up to Three Bi-directional RS-232 Data Channels





HXA/HXB-3D/3D-x One Fiber system w/ Screw Terminal Connector HXA/HXB-3D/3D-xN One Fiber system w/ DB-9 Connector Two Fiber system

w/ Screw Terminal

Connector



- Up to Three Bi-directional RS-232 Data Channels
- DC to 250 Kb/s Data Rate
- 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
- ST, FC Optical Connector
- 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
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed
- Screw Terminal or DB-9 Type Connectors for Data

DESCRIPTION:

The HXA/HXB-3D/3D-x and HX-3D/3D-x series products incorporate a new digital encoding technology. This fiber optic system transmits Three Bi-directional RS-232 Data signals with a maximum data rate of 250 Kb/s.

Both, multimode or singlemode, one and two fibers versions are available (See "Part Numbers" section).

The functionality this system is further enhanced by its 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 Digital carrier detect, voltages, temperatures, optical levels etc. See SpectraSmart[™] brochure for further details.

CONFIGURATIONS:

The DigiCool[™] products are available as rack mount cards that can be installed in Meridian's card chassis, desk chassis and 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, 1 slot desk / wall mount chassis (87VAC-264VAC).

MARKETS:

- $\sqrt{}$ Security and surveillance
- $\sqrt{}$ Access control systems
- $\sqrt{}$ Intelligent transportation systems (ITS)
- √ SCADA

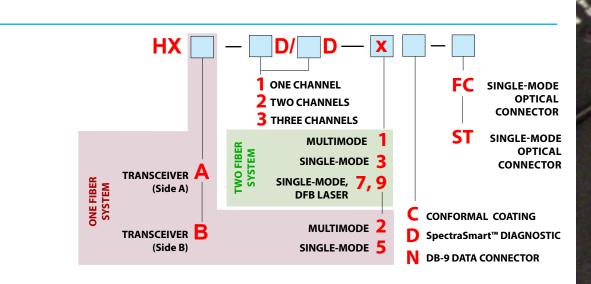
SPECIFICATIONS:

Data		Power			
Formats	RS-232 w/ full speed handshake	Card	4 Watts		
Data Rate RS-232	DC to 250 Kb/s				
Bit Error Rate	10-9*	Indicators (LEDs)			
PWD	10%	1 - Green	Power On		
		1 - Bi-color	TX Carrier/ Laser Over Current		
Connectors		1 - Bi-color	RX optical signal - Present / Error		
		1 - Green (per channel)	TX Data Present		
Data	 Screw Terminals 	1 - Green (per channel)	RX Data Present		
Optical	– ST - MM(default), FC - SM(default)	1 - Bi-color (Optional)	Card Diagnostics		
Power	_ See SR-500 Spec. Sheet	Physical			
Optical		Dimensions (Card)	20 (W) x 127 (H) x 160 (D) mm		
Fiber Data Rate	100 Mb/s		$(0.8 \times 5.0 \times 6.3 \text{ inch})$		
		Weight (Card)	450 gms (16 Oz)		
Environmental		No. of Slots	1		
Operating Temperature	-34°C to +74°C	Module	See SR-500 Brochure		
Storage Temperature Relative Humidity	55°C to +85°C 0 to 95% Non-condensing	Quality			
		MTBF	>200,000 hours, @ 35°C Ground		
*			0		

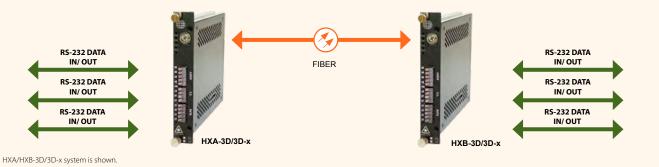
* measured @ max. optical budget

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

Part Numbers:



Fix as per MIL 217F



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	-27	22	1300	ST	27	7
3	Singlemode (FP Laser) 9 / 125	-5	-27	22	1310	ST, FC	27	60
2	Multimode (Laser) 62.5 / 125	-5	-25	20	850/1300	ST	25	7
5	Singlemode (FP Laser) 9 / 125	-5	-25	20	1310/1550	ST, FC	25	55
7, 9	Singlemode (DFB Laser) 9 / 125	+1	-27	28	1550, 1310	ST, FC	27	80

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