FxFIBER Industrial Fiber Optic Transceivers

Sixnet Networking Series



Industrial Rated Fiber Optic Transceivers

PRODUCT HIGHLIGHTS

- Multimode and singlemode models available
- Noise immune fiber optic runs up to 120 km
- Industrial rated for -40 to 85°C operation
- Available in SC or ST duplex connectors (FC available special order)
- Fully compliant with IEEE 802.3u Fast Ethernet (100 Mbps) standards
- Low power consumption



RECOMMENDED OPERATING CONDITIONS

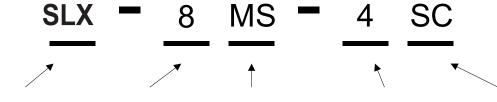
PARAMETER	MIN.	TYP.	MAX	UNIT	NOTE
Operating Temperature	-40	-	85	° C	-
Storage Temperature	-40	-	85	° C	-
Data Rate	50	155	200	Mbit/s	-

THESE INDUSTRIAL RATED FIBER OPTIC TRANSCEIVERS ARE INTEGRATED IN MANY SIXNET INDUSTRIAL ETHERNET SWITCHES.



ORDERING GUIDE

Note: This doesn't apply to all models. Refer to the datasheet of each model for exact ordering information.)



Product Line SLX = Slim Line Port Count 2 thru 18 or more

Switch Type ES = Ethernet (unmanaged) RS = Ring MS = Managed MG = Gigabit Managed

RG = Gigabit Ring

Fiber Ports

2 = 1 MM up to 4km3 = 1 SM up to 20km 4 = 2 MM up to 4km5 = 2 SM up to 20km

6 = 3 MM up to 4km 7 = 3 SM up to 20km 8 = 4 MM up to 4 km9 = 4 SM up to 20km

Connector Type SC = SC DuplexST = ST Duplex

industrial networking



FxFIBER Industrial Fiber Optic Transceiver Specifications

PARAMETER	RATING ¹	MIN.	TYP.	MAX.	UNIT	NOTE				
Optical Transmit Power	4km (LED) -1914 20km (FP) -157 40km (FP) -5 - 0		-ID	A						
	60km (FP) 80km (DFB) 120km (DFB)	-3 -5 0	- -2.5 2.5	2 0 5	dBm	Average				
Extinction Ratio	4km, 20km 40, 60, 80, 120KM	8.2 10	-	- -	dB	P1/P0				
Output Center Wavelength	4km, 20km, 40km 80km, 120km	1260 1480	1310 1550	1360 1580	nm					
Spectral Width (-20dB)	4km 20km 40km, 60km 80km, 120km	- - -	- - -	80 7.7 4 1	nm					
Side Mode Suppression Ratio	80km, 120km	30	-	-	dB					
Rise/Fall time (10%-90%)	all models	-	-	2	ns					
Relative Intensity Noise	-	-	-	-117	dB/Hz					
Output Eye	Compliant with Bellcore TR-NWT-000253 and ITU-T G.957/OC-3									
RECEIVER OPTICAL CHARAC	TERISTICS:									
Wavelength Operation	all models	1200	-	1600	nm					
Sensitivity	4km 20km 40km, 80km 60km 120km	- - - -	- - - -	-32 -31 -34 -36 -35	dBm	2				
Saturation Input Power	all models	-3	-	-	dBm	2				
Signal Detect-Asserted	4km 20km 40km, 80km 60km 120km	- - - -	- - - -	-32 -31 -34 -36 -35	dBm					
Signal Detect- Deasserted	all models	-45	-	-	dBm					
Signal Detect- Hysteresis	all modela	1		6	dB					

Notes:

- 1. The distance rating is for reference only. The actual transmission distance will depend on the system setup and the power budget should be used for distance estimation.
- 2. Minimum sensitivity and saturation levels measured at 10-10 BER for 223 1 PRBS

All specifications are subject to change. Consult factory for latest info.



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Europe Middle East Africa europe@redlion.net As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our award-winning technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. For more information, please visit www.redlion.net. Red Lion is a Spectris company.

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