Stratos
LxS-ST11xx Low Profile Optical Transceiver

Connectivity for Business Critical Continuity™

2x/4x Fiber Channel (2.125G – 4.25Gbps)
3.3V, 850nm VCSEL, Multimode, Up to 300Meters

Applications

The LxS-ST11xx multimode optical fiber transceivers provide low profile, cost effective solutions for rate agile 2x/4x Fiber Channel multimode optical fiber data links, with a duplex LC connector interface.

These transceivers are fully compliant with the ANSI Fiber Channel standards but can be used for any other data communications purpose within their operating parameters.

Key Features & Benefits

- Low Profile Design - 0.386 inches max. height
- Surface mount I/O pins for high speed signal integrity
- All metal body, solder or screw mount options
- Industrial Temp Range, Vibration tolerant design
- RX data squelch on Signal Detect deassert
- Individual (separate) +3.3 V power supply per port
- Industry standard duplex multimode LC receptacle
- Compliant with ANSI Fiber Channel FC-PI / PH2
- EN-60825 / IEC-825 / CDRH Class 1 Compliant
- Optional Parylene C Conformal Coating
- Optional addition of fiber pigtail

Ordering Information

Low Rider	L	X	S	-	ST11	X	X
Roughrider[1]	RR		S	-	ST11	X	X

Shell Options
N= No GND Tabs (Flat Shell)
T= GND Tabs

Temperature and coating
H= -40 to 85 C, No Coating
M= -40 to 85 C, Conformal Coating

Mounting
BLANK= Solder Posts (0.125 length)
B= Screw Posts (0.050 length)

1. See product data sheet for information on Roughrider products.

Transmitters: VCCTX = 3.135V to 3.465V, T_A = Operating Temperature Range

Parameter	Symbol	MIN	Typical	MAX	Unit
Optical Output Power[1]	P_O	-9.5		-4	dBm
Extinction Ratio	ER		10		dB
Optical Modulation Amplitude (p-p) 4.25 GigaBaud 2.125 GigaBaud	OMA	 196 196			 µW µW
Total Jitter[1]	Tj			85	ps

Receivers: VCCRX = 3.135V to 3.465V, T_A = Operating Temperature Range

Parameter	Symbol	MIN	Typical	MAX	Unit
Optical Sensitivity[3] 4.125 GigaBaud[1] 2.0625 GigaBaud[2]	P_I	 -15.0 -17.0		 0 0	 dBm dBm
Optical Modulation Amplitude 4.25 GigaBaud 2.125 GigaBaud	OMA	 49 49			 µW µW

1. BER=10^{-12}@ 2.125 GigaBaud, PRBS = 2^7-1, NRZ, Compliant with FC-PH-2.
2. BER=10^{-12} @ 1.0625 GigaBaud, PRBS = 2^7-1, NRZ, Compliant with FC-PH.
3. Assuming an Extinction Ration of 9dB

Link Distances

Fiber Specification	Application	Distance
62.5/125 (200MHz*Km)	4x Fiber Channel – ANSI X3.297 FC-PI	70M
	2x Fiber Channel – ANSI X3.297 FC-PI	150M
50/125 (500MHz*Km)	4x Fiber Channel – ANSI X3.297 FC-PI	150M
	2x Fiber Channel – ANSI X3.297 FC-PI	300M

For more information on this product consult the LxS-ST11xx product data sheet.

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