

Stratos

LxL-LT1Axx Low Profile Optical Transceiver

Connectivity for
Business Critical Continuity™



1x/2x Fiber Channel
3.3V, Mode Conditioned 1310nm FP Laser,
Multimode Applications

Applications

The LxL-LT1Axx multimode optical fiber transceivers provide low profile, cost effective solutions for 1x and 2x Fiber Channel multimode optical fiber data links with a duplex LC connector interface.

These transceivers are fully compliant with the 1x and 2x Fiber Channel standards but can be used for any other data communications purpose within their operating parameters.

Ordering Information

Low Rider	L	X	L - LT1A	X	X
Roughrider ¹	RR		L - LT1A	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.

Key Features & Benefits

- Low Profile Design - 0.386 inches max. height
- Surface mount I/O pins for high speed signal integrity
- IPC Class III assembly and construction
- Defocused 1310nm FP for Multimode applications
- All metal body, solder or screw mount options
- RX data squelch on Signal Detect deassert
- Individual (separate) +3.3 V power supply per port
- Industry standard duplex multimode LC receptacle
- Full compliance to ANSI FC requirements
- EN-60825/ IEC-825 / CDRH Class 1 Compliant
- Optional Parylene C Conformal Coating
- Optional addition of fiber pigtail

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		-3	dBm
Extinction Ratio	ER		9		dB
Total Jitter	T _j			85	pS
Optical Modulation Amplitude (p-p) 2.125 GigaBaud	OMA	213			μW
1.0625 GigaBaud		219			μW

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

Parameter	Symbol	MIN	Typical	MAX	Unit
Optical Sensitivity ¹	P _i	-20		0	dBm
Optical Modulation Amplitude (p-p)	OMA	15			μW
Optical Return Loss	ORL	12			dB

1. BER=10⁻¹² @ 2.125Gbps, PRBS 2⁷-1, NRZ, Compliant with ANSI X3.297 / FC-PH-2

2. RX Data outputs are squelched when Signal Detect is deasserted to prevent garbage data output when no optical signal is present.

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Link Distances

Fiber Specification	Application	Distance
62.5/125 (200MHz*Km)	2x Fiber Channel – ANSI X3.297 FC-PI	150M
	1x Fiber Channel – ANSI X3.297 FC-PH-2	300M
50/125 (500MHz*Km)	2x Fiber Channel – ANSI X3/297 FC-PI	300M
	1x Fiber Channel – ANSI X3.297 FC-PH-2	500M

For more information on this product consult the LxL-LT1Axx product data sheet.

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