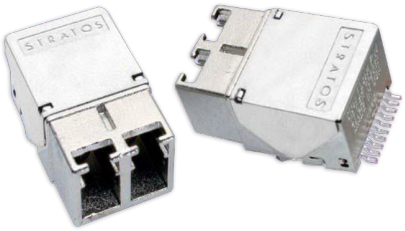
STRATOS
optical technologies

LxP-LT12xx Low Profile Optical Transceiver

Infiniband (2.5Gbps) 3.3V, 1310nm FP Laser, Singlemode, Up to 10.0 Km



Applications

The LxP-LT12xx singlemode optical fiber transceivers provide low profile, cost effective solutions for InfiniBand singlemode optical fiber data links with a duplex LC connector interface.

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

Features

- 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 singlemode LC receptacle
- Full compliance to InfiniBand requirements
- EN-60825/ IEC-825 / CDRH Class 1 Compliant
- Optional Parylene C Conformal Coating
- Optional addition of fiber pigtail

cinch
CONNECTIVITY SOLUTIONS
a bel group

+1 321.308.4100
ccsorders@us.cinch.com
belfuse.com/cinch

Please read our datasheet & drawing disclaimer here.

STRATOS
optical technologies

Ordering Information

Low Rider	**L**	**X**	**P**	**-**	**LT12**	**X**	**X**
Roughrider[1]	**RR**		**P**	**-**	**LT12**	**X**	**X**

Shell Options

N – No GND Tabs (Flat Shell)
T – GND Tabs

Mounting

BLANK – Solder Posts (0.125 length)
B – Screw Posts (0.050 length)

Temperature and Coating

H – -40 to 85°C, no coating
M – -40 to 85°C, conformal coating

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

Parameter	Symbol	MIN	Typical	MAX	Unit
Optical Output Power[1]	P_O	-10		-3	dBm
Extinction Ratio	ER		9		dB
Total Jitter	Tj			85	pS
Optical Modulation Amplitude (p-p)	OMA	186			µW

1. BER=10^{-12} @ 1.25Gbps, PRBS 2^7-1, NRZ, Compliant with InfiniBand 1X-LX

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

Parameter	Symbol	MIN	Typical	MAX	Unit
Optical Sensitivity[1]	P_I	-18		-1.5	dBm
Optical Modulation Amplitude (p-p)	OMA	24			µW
Optical Return Loss	ORL	12			dB

1. BER=10^{-12} @ 1.25Gbps, PRBS 2^7-1, NRZ, Compliant with InfiniBand 1X-LX

For more information on this product consult the LxP-LT12xx product data sheet.

cinch
CONNECTIVITY SOLUTIONS
a bel group

+1 321.308.4100
ccsorders@us.cinch.com
belfuse.com/cinch