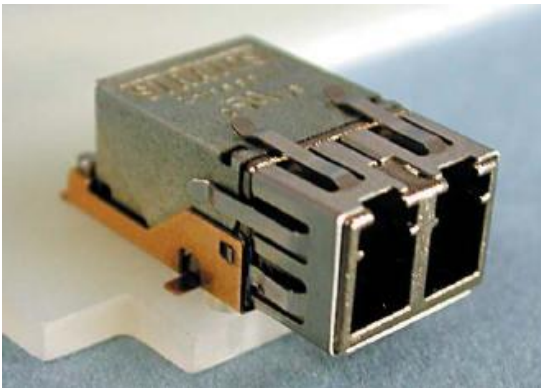


Stratos

PxF-LP11x Low Profile Optical Transceiver

Connectivity for
Business Critical Continuity™



Pluggable, Fast Ethernet Applications 3.3V, 1310nm LED, Multimode, Up to 2.0Km

Applications

The PxF-LP11x multimode optical fiber transceivers provide low profile, cost effective solutions for Fast Ethernet multimode (up to 2.0Km) optical fiber data links with a duplex LC connector interface. These transceivers are fully compliant with the IEEE 802.3u Fast Ethernet standard 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
- Pluggable Transceiver for SMT Assembly Process
- 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
- Full compliance to IEEE 802.3u Fast Ethernet
- EN-60825 / IEC-825 / CDRH Class 1 Compliant
- Optional Parylene C Conformal Coating

Ordering Information

Low Rider P X F - LP11 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

Transmitters: VCCTX = 3.15V to 3.45V, T_A = Operating Temperature Range

Parameter	Symbol	MIN	Typical	MAX	Unit
Optical Output Power ¹	P_O	-19.0		-14.0	dBm
Extinction Ratio	ER	11	13		dB
Supply Current	I_{CC}		160	200	mA

1. BER=10⁻¹⁰ @ 125Mbps, PRBS 2⁷-1, NRZ, Compliant with FDDI PMD ISO / IEC 9314-3 and IEEE-802.3u testing with 62.5 MM Fiber.

Receivers: VCCTX = 3.15V to 3.45V, T_A = Operating Temperature Range

Parameter	Symbol	MIN	Typical	MAX	Unit
Optical Sensitivity ¹	P_I	-32.0		-8.0	dBm
RX Data Output – Low	$V_{OL} - V_{CC}$	-1.810		-1.475	V
RX Data Output – High	$V_{OH} - V_{CC}$	-1.165		-0.880	V

1. BER=10⁻¹⁰ @ 125Mbps, PRBS 2⁷-1, NRZ, Compliant with FDDI PMD ISO / IEC 9314-3 and IEEE-802.3u testing with 62.5 MM Fiber.

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

Application	Fiber Specification	Distance
Fast Ethernet – IEEE 802.3u	62.5/125 – 500MHz * Km	2.0Km
FDDI PMD ISO / IEC 9314-3	50/125 – 500MHz * Km	2.0Km

For more information on this product consult the PxF-LP11x product data sheet.

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