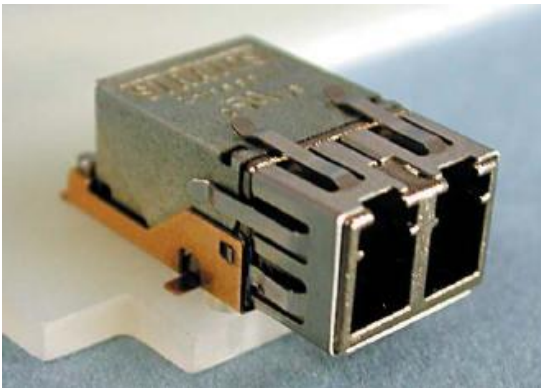


# Stratos

## 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 <sup>1</sup>	$P_o$	-19.0		-14.0	dBm
Extinction Ratio	ER	11	13		dB
Supply Current	$I_{cc}$		160	200	mA

1. BER=10<sup>-10</sup> @ 125Mbps, PRBS 2<sup>7</sup>-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 <sup>1</sup>	$P_i$	-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<sup>-10</sup> @ 125Mbps, PRBS 2<sup>7</sup>-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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