



RxF-LP11x-R6-RJ Format Optical Transceiver

Optical 1310nm LED Multimode RJ +3.3V



The Cinch Connectivity Solutions RxF-LP11x-R6 transceiver module is a high performance integrated duplex data link for bi-directional communication over multimode optical fiber. The RxF-LP11-R6 is specifically designed for high speed data links up to 200 MBaud.

The Stratos Lightwave sugar cube sized transceiver offers the functionality of the common Small Form Factor transceiver albeit in a much smaller package. This optoelectronic transceiver module is a Class 1 Laser product compliant with FDA Radiation Performance Standards, 21 CFR Subchapter J. This component is also Class 1 Laser compliant according to International Safety Standard IEC-825-1/EN 60825. The RxF-LP11x-R6 is provided with the 1310nm LED which provides highly reliable communications in excess of 2Km.



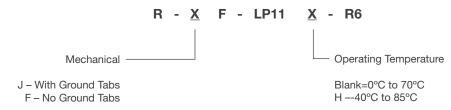
Features

- · Fast Ethernet compliant
- Enables reuse of existing RJ-45 UTP equipment cabinets
- Overall metal shield with enhanced grounding tabs
- Single +3.3V Power Supply
- DC Coupled Inputs/Outputs
- RoHS Compliant
- Wave Solderable/Aqueous Washable
- UL 1950 Approved
- Duplex Multimode LC Receptacle
- PECL Signal Detect Level





Ordering Information



Module Specifications - Electrical

Parameter	Symbol	MIN	Typical	MAX	Unit	Notes
Supply Current				200	mA	0°C <tc<+70°c; +3.135v<vcc<+3.465v<="" th=""></tc<+70°c;>
Transmitter Input Swing (Differential) Input Impedance (Differential) TX_DISABLE Input Voltage – High TX_DISABLE Input Voltage – Low TX_FAULT Output Voltage – High	Vin Rin V _⊪ V _{ι∟} VtoH	400 85 2 0 V _{cc} -0.5	100	2400 115 3.465 0.8 V _{cc} +0.3	mVpp Ω V V	Rin > 100K Ω @ DC lo = 400 μ A; Host Vcc
Receiver Output Swing (Differential) Output Impedance (Differential) Single Detect Output Voltage – Low Single Detect Output Voltage – High	Rout	600 85 1.4 2.3	100	1200 115 1.9 2.9	mVpp Ω V	DC Coupled Outputs

Module Specifications - Optical

Parameter	Symbol	MIN	Typical	MAX	Unit	Notes
Transmission Distance 62.5µm Core Diameter SMF		2				BER<1.0E-12 @ 125MBaud
Transmitter Optical Center Wavelength Optical Transmit Power Extinction Ratio Total Jitter [Pk-Pk] Output Rise/Fall Time	λ Popt ER Tj t _R , t _F	1280 -20 10	1310	1360 -14 800 3.2 1.7	nm dBm dBm ps ns	Tcase = +25°C Average @ 1310nm P1/P0 Measured with 2 ⁷ -1 PRBS 20%-80%; Measured unfiltered 20%-80%; Measured unfiltered
Receiver Optical Input Wavelength Optical Input Power SD – Asserted SD – Deasserted SD – Hysteresis	λ Pr Pa Pd Pa-Pd	1270 -31 -45	1.5	1380 -14 -29	nm dBm dBm dBm dB	BER<1.0E-12 @ 125 MBaud PRBS 7 Measured on transition – Low to High Measured on transition – High to Low

For more information on this product consult the RxF-LP11x-R6 product data sheet.

