Stratos

SPLC-20-2-4-Bx-R6 Optical Transceiver





Product Overview

The Emerson Network Power Connectivity Solutions SPLC-20-2-4-BX-R6 pluggable transceiver module is a high performance integrated duplex data link for bi-directional communication over multimode optical fiber. It is compliant with the MSA Small Form Factor Pluggable (SFP) specification. The Stratos Lightwave SFP transceiver is hot pluggable which allows a suitably designed enclosure to be changed from one type of external interface to another simply by plugging in a SFP having the alternative external interface. The SPLC-20-2-4-BX-R6 operates at +3.3V. This optoelectronic transceiver module is a Class 1 Laser product compliant with FDA Radiation Performance Standards, 21 CFR Subchapter J. This component is also a Class 1 Laser compliant according to the International Safety Standard IEC-825-1. The SPLC-20-2-4-BX-R6 is provided with the 1310nm LED which provides highly reliable communications in excess of 2km.

Ordering Information



Key Features & Benefits

- Fast Ethernet Compliant
- ESCON Compliant
- SONET OC-3/ST-1 Compliant
- Compliant with MSA SFP specification
- AC coupled Inputs/Outputs
- Hot pluggable
- Single +3.3V Power Supply
- Serial ID functionality
- RoHS compliant

Module Specifications – Electrical: +3.15V<Vcc<+3.45V

	Module Specifications Electrical Strategy Strategy Strategy									
Parameter	Sym	MIN	Тур	MAX	Unit	Notes				
Supply Current	lcc		180	250	mA	Tc = 25°C, Vcc = +3.3V				
Surge Current	Isurge			300	i mA	-40°C <tc<+85°c;+3.15v<vcc<+3.45v< td=""></tc<+85°c;+3.15v<vcc<+3.45v<>				
				30		Surge above steady value				
Transmitter										
PECL Inputs (Differential)		400		2400	mVpp	AC Coupled Inputs				
Input Impedance (Differential)	Zin	95	100	105	Ω	Rin > 100K Ω @ DC				
TX_DISABLE Input Voltage – High	ViH	2		3.45	V					
TX_DISABLE Input Voltage – Low	ViL	0		0.8	V					
TX_FAULT Output Voltage – High	VtoH	Vcc-0.5		Vcc+0.3	V	Io = 400μA; Host Vcc				
TX_FAULT Output Voltage – Low	VtoL	0		0.5	V	Io = -4.0mA				
Receiver										
PECL Outputs (Differential)		600	1200	1860	mVpp	AC Coupled Outputs				
RX_LOS Output Voltage – High	VroH	Vcc-0.5		Vcc+0.3	V	Io = 400μA; Host Vcc				
RX_LOS Output Voltage – Low	VroL	0		0.8	V	Io = -4.0mA				
MOD_DEF (0:2)	VoH	2.5		Vcc+0.3	V	With Serial ID				
	VoL	0		0.5						





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Module Specifications – Optical: +3.15V<Vcc<+3.45V

Module Specifications Optical.	viodale specifications – optical. 13.13V Wee 13.43V								
Parameter	Sym	MIN	Тур	MAX	Unit	Notes			
62.5μm Core Diameter SMF		2				BER<1.0E-12 @ 125Mbaud ¹ BER<1.0E-10 @ 155Mbaud ²			
						BER<1.0E-15 @ 200Mbaud ³			
Transmitter									
Optical Center Wavelength	λ	1280	1310	1360	nm	Tcase = +25°C			
Optical Transmit Power	Popt	-20		-14	dBm	Average @ 1310nm			
Extinction Ratio	ER	10			dBm	P1/P0			
Total Jitter [Pk – Pk]	Tj			800	ps	Measured with 2 ⁷ -1 PRBS ¹			
Output Rise/Fall Time	t_R , t_F			3.2	ns	20%-80%; Measured unfiltered ¹			
				1.7		20%-80%; Measured unfiltered ³			
Receiver									
Optical Input Wavelength	λ	1270		1380	nm				
						BER<1.0E-12 @ 125Mbaud PRBS 7 1			
Optical Input Power	Pr	-31		-14	dBm	BER<1.0E-10 @ 155Mbaud PRBS 23 ²			
						BER<1.0E-15 @ 200Mbaud PRBS 7 ³			
RX_LOS – Asserted	Pa	-45			dBm	Measured on transition – Low to High			
RX_LOS – Deasserted	Pd			-29	dBm	Measured on transition – High to Low			
RX_LOS – Hysteresis	Pa-Pd		1.5	5	dB				

- 1. Fast Ethernet 125Mbps
- 2. SONET OC-3/STM-1 155Mbps
- 3. ESCON 200Mbps

For more information on this product consult the SPLC-20-2-2M-Bx-R6 product data sheet.

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