

# Stratos

## SPLC-20-4D-2-B-R6 Optical Transceiver

Connectivity for  
Business Critical Continuity™



### Applications

Gigabit Ethernet  
Switch to Switch Interface  
Proprietary Links  
File Server Interface

### Gigabit Ethernet / Fiber Channel Applications 1310nm SFP w/ DDMI – 1.25 / 1.0625 GBaud

### Product Overview

The Emerson Network Power Connectivity Solutions SPLC-20-4D-2-B-R6 pluggable transceiver module is a high performance integrated duplex data link for bi-directional communication over single mode optical fiber. It is compliant with the Small Form Factor Pluggable (SFP) Multi-Source Agreement (MSA) transceiver specification. The SPLC-20-4D-2-B-R6 is specifically designed for high speed data links up to 1.25GBaud. 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. 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.

### Ordering Information

SPLC - 20 - 4D - 2 - B - R6

### Key Features & Benefits

- Gigabit Ethernet Compliant IEEE 802.3z
- 1.0625GBaud Fiber Channel Compliant
- Digital Diagnostics Monitoring Interface (DDMI)
- Compliant with SFP MSA Specification
- 100Ω Differential AC Coupled Inputs/Outputs
- Metal Housing
- Serial ID Functionality
- Hot Pluggable
- Single +3.3V Power Supply
- RoHS Compliant

### Module Specifications – Electrical

Parameter	Symbol	MIN	Typical	MAX	Unit
Total Supply Current	Icct			300	mA
<b>Transmitter</b>					
Differential Input Voltage <sup>1</sup>	Vdt	0.5		2.4	V
Disable Input – High	Vdish	2		Vcc+0.3	V
Disable Input – Low	Vdisl	0		0.8	V
Fault Output – High	Vtxfh	2		Vcc+0.3	V
Fault Output – Low	Vtxfl	0		0.8	V
<b>Receiver</b>					
Differential Output Voltage	Vdr	0.35		2	V
LOS Load	LOSI	4.7K		10K	Ω
LOS Output – High	LOSh	2		Vcc+0.3	V
LOS Output – Low	LOSol	0		0.8	V
Output Data Rise/Fall Time (20-80%)	Tr/Tf		220		pS

1. Internally AC coupled and terminated to 100Ω load

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### Module Specifications – Optical

Parameter	Symbol	MIN	Typical	MAX	Unit
<b>Transmitter</b>					
Optical Output Power	Po	-9.5		-3	dBm
Extinction Ratio		9			dB
Center Wavelength		1274	1310	1355	nm
Spectral Width (RMS)				4	nm
Rise/Fall Time (20-80%)	Tr/Tf	0		260	pS
<b>Receiver</b>					
Sensitivity (Avg) <sup>1</sup>	Pin			-19	dBm
Input Wavelength		1270		1570	nm
LOS – Deasserted	Pd			-19	dBm
LOS – Asserted	Pa	-36			dBm
LOS – Hysteresis	Pa-Pd	0.5			dB
Overload	Pol	-3	0		dBm

1. BER of 10<sup>-12</sup>

*For more information on this product consult the SPLC-20-4D-2-B-R6 product data sheet.*

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