

SPLC-20-F-1-D Optical Transceiver

4x / 2x / 1x Fiber Channel Applications
850nm SFP w/ DDMI 4.25 / 2.125 / 1.0625 GBaud

Applications

The Cinch Connectivity Solutions SPLC-20-F-1-D pluggable transceiver module is a high performance integrated duplex data link for bi-directional communication over multimode optical fiber. It is compliant with the Small Form Factor Pluggable (SFP) Multi-Source Agreement (MSA) transceiver specification. The SPLC-20-F-1-D is specifically designed for high speed data links up to 4.25GBaud.



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.

Features

- 4.25GBaud Fiber Channel Compliant
- 2.125GBaud Fiber Channel Compliant
- 1.0625GBaud Fiber Channel Compliant
- Digital Diagnostics Monitoring Interface (DDMI)
- Compliant with SFP MSA Specification
- 100 Differential AC Coupled Inputs/Outputs
- Metal Housing
- Serial ID Functionality
- Hot pluggable
- Single +3.3V Power Supply
- RoHS Compliant

Ordering Information

SPLC - 20 - F - 1 - D

Module Specifications - Electrical: 0°C<Tc<+70°C; +3.0V<Vcc<+3.6V

Parameter	Symbol	MIN	Typical	MAX	Unit	Notes
Supply Current				300	mA	0°C<Tc<+70°C; +3.0V<Vcc<+3.6V
Transmitter						
Input Swing (Differential)	V _{in}	500		2400	mVpp	R _{in} > 100K Ω @ DC
Input Impedance (Differential)	R _{in}	85	100	115	Ω	
TX_DISABLE Input Voltage – High	V _{IH}	2		3.465	V	
TX_DISABLE Input Voltage – Low	V _{IL}	0		0.8	V	
TX_FAULT Output Voltage – High	V _{toH}	V _{cc} -0.5		V _{cc} +0.3	V	I _o = 400μA; Host Vcc
TX_FAULT Output Voltage – Low	V _{toL}	0		0.8	V	I _o = 4.0mA
Receiver						
Output Swing (Differential)		300		1200	mVpp	AC Coupled Outputs
Output Impedance (Differential)	R _{out}	85	100	115	Ω	
RX_LOS Output Voltage – High	V _{roH}	V _{cc} -0.5		V _{cc} +0.3	V	I _o = 400μA; Host Vcc
RX_LOS Output Voltage – Low	V _{roL}	0		0.8	V	I _o = -4.0mA
Rate Select (1.0625GBaud)	RS _{LOW}	0		0.8	V	In Accordance to SFF Committee SFF-80-79
Rate Select (2 / 4 GBaud)	RS _{HIGH}	2		3.465	V	

Module Specifications - Optical: 0°C<Tc<+70°C; +3.0V<Vcc<+3.6V

Parameter	Symbol	MIN	Typical	MAX	Unit	Notes
50μm Core Diameter MMF		150	250		m	BER<1.0E-12 @ 4.25GBaud BER<1.0E-12 @ 2.125GBaud BER<1.0E-12 @ 1.25/1.0625GBaud
		300	500			
		550	1000			
62.5μm Core Diameter MMF		70	150		m	BER<1.0E-12 @ 4.25GBaud BER<1.0E-12 @ 2.125GBaud BER<1.0E-12 @ 1.25/1.0625GBaud
		150	300			
		300	500			
Transmitter						
Optical Center Wavelength	λ	830	850	860	nm	RMS Average @ 850nm pk-pk @ 4.125GBaud pk-pk @ 2.125GBaud pk-pk @ 1.0625GBaud Measured with -12dB optical return loss
Spectral Width	Δλ			0.85	nm	
Optical Transmit Power	P _{opt}	-9		-3	dBm	
Optical Modulation Amplitude	OMA	247			μW	
Relative Intensity Noise	RIN	196		-118	dB/Hz	
Output Eye	Complies with ANSI FC-PI specification and Class 1 Laser eye safety					
Receiver						
Optical Input Wavelength	λ	770		860	nm	BER<1.0E-12 @ 4.25GBaud BER<1.0E-12 @ 2.125GBaud BER<1.0E-12 @ 1.0625GBaud
Optical Input Power	Pr	-15		0	dBm	
Optical Return Loss	ORL	-18		0	dB	
RX_LOS – Asserted	Pa	12			dBm	Measured on transition – Low to High High to Low @ 4.25GBaud High to Low @ 2.125GBaud High to Low @ 1.25/1.0625GBaud
RX_LOS – Deasserted	Pd	-29		-15	dBm	
RX_LOS – Hysteresis	Pa-Pd		1.5	-18	dB	
				-20		
				5		

For more information on this product consult the SPLC-20-F-1-D product data sheet.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fibre Optic Transmitters, Receivers, Transceivers](#) category:

Click to view products by [Bel Fuse](#) manufacturer:

Other Similar products are found below :

[STV.2413-574-00262](#) [TRPRG1VA1C000E2G](#) [TOTX1350\(V,F\)](#) [FTLX3813M349](#) [SCN-1428SC](#) [LTK-ST11MB](#) [HFD8003-002/XBA](#)
[HFD3020-500-ABA](#) [FTLF1429P3BCVA](#) [S6846](#) [SCN-2638SC](#) [FTL410QE4N](#) [FTLC9555FEPM](#) [TQS-QG4H9-J83](#) [SCN-1570SC](#) [SCN-](#)
[1601SC](#) [SCN-1338SC](#) [SFPPT-SR3-01](#) [HFD8003-500-XBA](#) [SCN-1383SC](#) [2333569-1](#) [LNK-ST11HB-R6](#) [FTL4C1QL3L](#) [FTL4C1QE3L](#)
[FTL4C1QL3C](#) [SPTSHP3PMCDF](#) [SPTSBP4LLCDF](#) [SPTMBP1PMCDF](#) [SPTSHP2PMCDF](#) [SF-NLNAMB0001](#) [SPTSHP2SLCDF](#)
[SPTSQP4LLCDF](#) [1019682](#) [1019683](#) [1019705](#) [HFBR-1415Z](#) [AFBR-5803ATQZ](#) [AFBR-5803ATZ](#) [PLR135/T9](#) [TGW-Q14BB-FCQ](#) [AFBR-](#)
[5803AZ](#) [TQS-Q1LH8-XCA03](#) [TQS-Q1LH8-XCA05](#) [TQS-Q1LH8-XCA10](#) [TQS-Q1LH9-2CA](#) [HFBR-1414Z](#) [HFBR-1527Z](#) [HFBR-1528Z](#)
[HFBR-2406Z](#) [HFBR-2505AZ](#)