

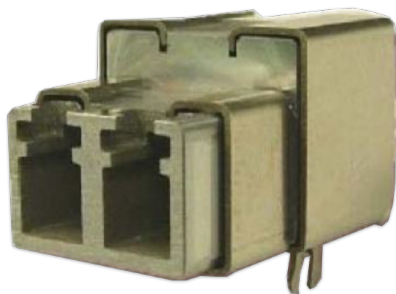
RJS-ST31

Optical Transceiver

4x / 2x / 1x Fiber Channel Applications,
850nm Micro Module 4.25 / 2.125 / 1.0625 GBaud

Applications

The Cinch Connectivity Solutions RJS-ST31 transceiver module is a high performance integrated full duplex data link for bi-directional communication over multimode optical fiber. It has been designed for use in space constrained applications, and offers the mandatory FC compliance commonly provided by SFF and SFP transceivers. 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

- 4.25 GBaud Fiber Channel Compliant
- 2.125 GBaud Fiber Channel Compliant
- 1.0625 GBaud Fiber Channel Compliant
- 100 differential DC coupled inputs/outputs
- Industry Standard LC Connector Interface
- Metal housing
- Single +3.3V Power Supply
- RoHS Compliant

Ordering Information



Module Specifications - Electrical: 0°C<Tc<+70°C, +3.135<Vcc<+3.465V

Parameter	Symbol	MIN	Typical	MAX	Unit	Notes
Supply Current			125	195	mA	0°C<Tc<+70°C; +3.135V<Vcc<+3.465V
Transmitter						
Input Swing (Differential)	V _{in}	500		2200	mVpp	
Input Impedance (Differential) ¹	R _{in}		100		Ω	Internally terminated
TX_DISABLE Input Voltage – High	V _{IH}	2		3.465	V	
TX_DISABLE Input Voltage – Low	V _{IL}	0		0.8	V	
Receiver						
Output Swing (Differential)		300		1200	mVpp	
Output Impedance (Differential)	R _{out}		100		Ω	
Single Detect Output Voltage – High ²	V _{roH}	V _{cc} -0.5		V _{cc} +0.3	V	I _o = 400μA; Host V _{cc}
Single Detect Output Voltage – Low ³	V _{roL}	0		0.8	V	I _o = -4.0mA

Module Specifications - Optical: 0°C<Tc<+70°C, +3.135<Vcc<+3.465V

Parameter	Symbol	MIN	Typical	MAX	Unit	Notes
Transmission Distance						
50µm Core Diameter MMF		150	250			BER<1.0E-12 @ 4.25GBaud
		300	500		M	BER<1.0E-12 @ 2.125GBaud
		550	1000			BER<1.0E-12 @ 1.25/1.0625GBaud
62.5µm Core Diameter SMF		70	150			BER<1.0E-12 @ 4.25GBaud
		150	300		M	BER<1.0E-12 @ 2.125GBaud
		300	500			BER<1.0E-12 @ 1.25/1.0625GBaud
Transmitter						
Optical Center Wavelength	λ	830	850	860	nm	
Spectral Width	Δλ			0.85	nm	RMS
Optical Transmit Power	Popt	-9		-3	dBm	Average @ 850nm
		247			µW	Pk-pk @ 4.25GBaud
Optical Modulation Amplitude	OMA	196			µW	Pk-pk @ 2.125GBaud
		156			µW	Pk-pk @ 1.0625GBaud
Relative Intensity Noise	RIN			-118	dB/Hz	Measured with -12dB optical return loss
Output Eye	Complies with ANSI FC-PI Specification and Class 1 Laser Eye Safety					
Receiver						
Optical Input Wavelength	λ	830		860	nm	
Optical Input Power	Pr	-15		0		BER<1.0E-12 @ 4.25GBaud
		-18		0	dBm	BER<1.0E-12 @ 2.125GBaud
		-20		0		BER<1.0E-12 @ 1.25/1.0625GBaud
Optical Modulation Input	OMA	61			µW	Pk-pk @ 4.25GBaud
		49				Pk-pk @ 2.125GBaud
		31				Pk-pk @ 1.0625GBaud
Optical Return Loss	ORL	12			dB	
SD – Deasserted	Pd	-29			dBm	
				-15		4.25GBaud
SD – Asserted	Pa			-18	dBm	2.125GBaud
SD – Hysteresis	Pa-Pd			-20		1.25/1.0625GBaud
			2.25	3.5	dB	

For more information on this product consult the RJS-ST31 product data sheet.

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