

PRE-SFP32G-SR

SFP28, 850nm, MMF, 100m OM4, 28Gbps

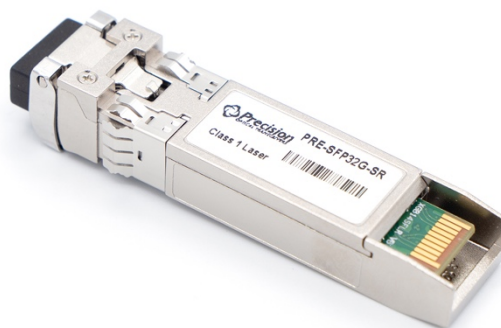


Product Features:

- VCSEL Transmitter
- PIN Receiver
- MMF Transmission Medium
- LC-UPC Connector Type
- Digital Diagnostics Monitoring (DDM)

Applications:

- 25G Ethernet
- Fiber Channel



Compliance:

- SFF-8431
- SFF-8472
- FC-P1-4, FC-P1-6
- IEC/EN 61000-4-2
- EN 61000-3
- FCC Part 15 Class B / EN55022 Class B
- FDA 21CFR 1040.10,11 / IEC/EN 60825-1,2
- RoHS

General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	T_{op}	0	-	70	°C
Power Consumption	P_w	-	-	1	W
Power Supply Current	I_{cc}	-	-	300	mA
Power Supply Voltage	V_{cc}	3.14	3.3	3.47	V
Storage Humidity	H_s	5	-	95	%
Storage Temperature	T_s	-40	-	85	°C
Transmission Distance (OM3)	TD	-	-	70	m
Transmission Distance (OM4)	TD	-	-	100	m
Data Rate (Total)	DR_T	8.5	14.025	28.05	Gbps

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**Optical Characteristics: Transmitter**

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	λ_c	840	850	860	nm
Transmit Power (8.5 Gbps)	P_{OUT}	-8.4	-	2.4	dBm
Transmit Power (14.025 Gbps)	P_{OUT}	-7.8	-	2.4	dBm
Transmit Power (28.05 Gbps)	P_{OUT}	-6.7	-	2.4	dBm
Spectral Width (28.05 Gbps)	σ	-	-	0.57	nm
Transmitter Waveform & Dispersion Penalty (8.5 Gbps)	TWDP	-	-	4.3	dB
Vertical Eye Closure Penalty (14.025 Gbps)	VECPQ	-	-	2.56	dB
Vertical Eye Closure Penalty (28.05 Gbps)	VECPQ	-	-	3.13	dB
Extinction Ratio	ER	3.0	-	-	dB
Relative Intensity Noise (8.5 & 14.05 Gbps)	RIN	-	-	-128	dB/Hz
Relative Intensity Noise (28.05 Gbps)	RIN	-	-	-129	dB/Hz

Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength	λ_r	770	850	860	nm
Input Saturation Power	P_{SAT}	2.0	-	-	dBm
Receiver Sensitivity (8.5 Gbps) ¹	R	-	-	-11.2	dBm
Receiver Sensitivity (14.025 Gbps) ¹	R	-	-	-10.5	dBm
Receiver Sensitivity (28.05 Gbps) ¹	R	-	-	-10.2	dBm
Optical Return Loss	ORL	12	-	-	dB
LOS Assert	LOS_A	-30	-	-	dBm
LOS De-Assert	LOS_D	-	-	-12	dBm
LOS Hysteresis	LOS_H	0.5	-	-	dB

1 = PRBS 2^7-1 @ 1×10^{-12} for 8.5 Gbps (8G-FC)2 = PRBS $2^{31}-1$ @ 1×10^{-12} for 14.025 Gbps (16G-FC)3 = Using FEC @ 1×10^{-6} for 28.05 Gbps (32G-FC)

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Product Ordering Information

Part Number	Description
PRE-SFP32G-SR	SFP28, 850nm, MMF, 100m OM4, 28Gbps, C-Temp