

## PRE-QSFP28-SRBD

QSFP28, 850nm/900nm, MMF OM4, 100m, 100Gbps



### Product Features:

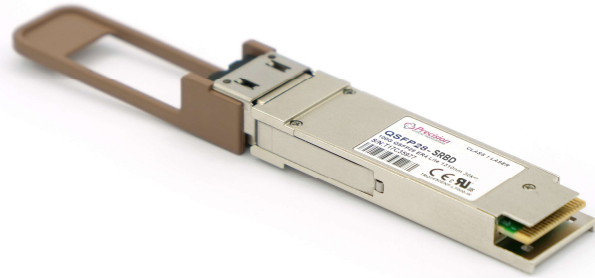
- VCSEL transmitters
- PIN receivers
- MMF Transmission Medium
- LC Connector Type
- Digital Diagnostics Monitoring (DDM)

### Applications:

- 100G Ethernet

### Compliance:

- IEEE 802.3bm (Annex 83E CAUI-4)
- SFF-8665
- SFF-8679
- SFF-8636
- SFF-8661, 8662, 8663
- EN61000-4-2
- FCC Part 15 Class A, EN55022 Class A, VCC9 Class 1
- IEC 61000-4-3
- RoHS



### General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	$T_{op}$	10	-	70	°C
Power Consumption	$P_w$	-	-	3.5	W
Power Supply Current	$I_{cc}$	-	-	1130	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	-	-	0.07	km
Transmission Distance (OM4)	TD	-	-	0.1	km
Transmission Distance (OM5)	TD	-	-	0.15	km
Data Rate (Total) – (no FEC)	$DR_T$	-	-	106.25	Gbps

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**Optical Characteristics**

Parameter	Symbol	Min	Typ	Max	Unit	Notes
<b>Transmitter</b>						
Center Wavelength 1	$\lambda_{c1}$	847	855	863	nm	
Center Wavelength 2	$\lambda_{c2}$	900	908	916	nm	
Data Rate per lane	-	26.5625 $\pm$ 100 ppm			GBd	PAM4
Average Launch Power per lane	$P_{TX\_AVG}$	-6	-	4	dBm	
Optical Modulation Amplitude per lane	$P_{TX\_OMA}$	-4	-	3	dBm	
OMA minus TDECQ per lane	-	-5.9	-	-	dBm	
Transmitter and Dispersion Eye Closure per lane	TDECQ	-	-	4.9	dB	
Extinction Ratio per lane	ER	3	-	-	dB	
Optical Return Loss Tolerance	TOL	-	-	12	dB	
Average Launch Power of OFF Transmitter	$P_{OFF}$	-	-	-30	dBm	
<b>Receiver</b>						
Center Wavelength 1	$\lambda_{c1}$	847	855	863	nm	
Center Wavelength 2	$\lambda_{c2}$	900	908	916	nm	
Data Rate	-	26.5625 $\pm$ 100 ppm			GBd	PAM4
Damage Threshold	$TH_d$	7.5	-	-	dBm	
Average Receive power per lane	$P_{RX\_AVG}$	-7.9	-	4	dBm	
Receive Power (OMA) per lane	$P_{RX\_OMA}$	-5.9	-	3	dBm	
Stressed Receiver Sensitivity (OMA) per lane	SRS	-	-	-3	dBm	
Receiver Reflectance	$R_R$	-	-	-15	dB	
Stressed eye closure (SECQ)		-	-	4.9	dB	
LOS Assert	$LOS_A$	-30	-	-	dBm	
LOS De-Assert	$LOS_D$	-	-	-5.9	dBm	
LOS Hysteresis	$LOS_H$	0.5	-	-	dB	

**Product Ordering Information**

Part Number	Description
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