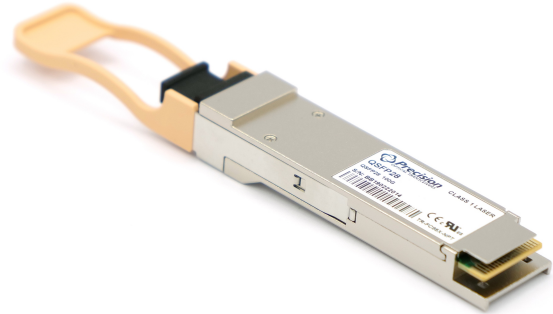


PRE-QSFP28-SR4, PRE-QSFP28M-SR4
QSFP28, 850nm, MMF, 100m, 100Gbps & 112Gbps



Product Features:

- VCSEL Transmitter
- PIN Receiver
- MMF Transmission Medium
- MPO-12 Connector Type
- Digital Diagnostics Monitoring (DDM)



Product Applications:

- 100G Ethernet
- OTN Transport

General Specifications

Parameter	Symbol	Min	Typ	Max	Unit
Case Operating Temperature (Commercial)	T_{op}	0	-	70	°C
Power Consumption	P_w	-	-	2.5	W
Power Supply Current	I_{cc}	-	-	757	mA
Power Supply Voltage	V_{cc}	3.14	3.3	3.46	V
Storage Humidity	H_s	0	-	85	%
Storage Temperature	T_s	-40	-	85	°C
Transmission Distance (OM4)	TD	-	-	0.1	km
Data Rate (Total)	DR_T	103.125	-	111.81 ¹	Gbps
Data Rate (Per Lane)	DR_{lane}	25.78125 ± 100 ppm	-	27.95249 ± 20 ppm ¹	GBd

¹ = 111.81 Gbps (27.95249 GBd per lane) is only for PRE-QSFP28M-SR4.

Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typ	Max	Unit
Center Wavelength	λ_c	840	850	860	nm
Transmit Power per lane (100GE)	P_{OUT}	-8.4	-	2.4	dBm
Transmit Power per lane (OTU4)	P_{OUT}	-9	-	2.4	dBm
Spectral Width	σ			0.6	nm
Optical Modulation Amplitude per lane (100GE)	OMA	-6.4	-	3	dBm
Optical Modulation Amplitude per lane (OTU4)	OMA	-7.1	-	3	dBm

Extinction Ratio (100GE)	ER	2	-	-	dB
Extinction Ratio (OTU4)	ER	3	-	-	dB
Transmitter OFF Output Power per lane	P_{OFF}	-	-	-30	dBm

Optical Characteristics: Receiver

Parameter	Symbol	Min	Typ	Max	Unit
Receiver Wavelength	λ_c	840	850	860	nm
Damage Threshold per lane	P_D	3.4	-	-	dBm
Receiver Sensitivity per lane (100GE)	R	-	-	-10.3	dBm
Receiver Sensitivity per lane (OTU4)	R	-	-	-10.9	dBm
LOS Assert	LOS_A	-30	-	-	dBm
LOS De-Assert	LOS_D	-	-	-12	dBm
LOS Hysteresis	LOS_H	0.5	-	-	dB

Product Ordering Information

Part Number	Description
PRE-QSFP28-SR4	QSFP28, 850nm, MMF, 100m, 100Gbps, C-Temp
PRE-QSFP28M-SR4	QSFP28, 850nm, MMF, 100m, 112Gbps, C-Temp