

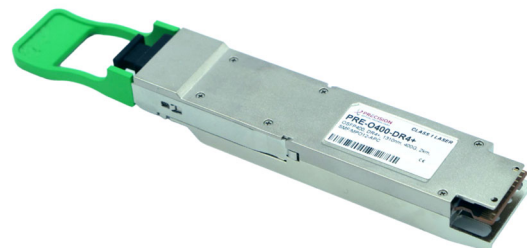
PRE-O400-DR4+

OSFP, DR4+, 1310nm, 400G, 2km,
SMF/MPO12-APC, C-Temp



Product Features:

- Up to 2km on 12 core MPO Single Mode Fiber
- Class 1 Laser
- MPO-12/APC Optical Connector
- Operating case temperature: 0°C~70°C
- Digital Diagnostic Monitoring



Product Applications:

- 400GBASE-DR4 Ethernet
- 4x100GBASE-FR Ethernet
- Switch & Router Connections
- Data Center Applications

Standards:

- OSFP MSA
- CMIS
- RoHS

General Specifications:

Parameter	Symbol	Min	Typical	Max	Unit
Case Operating Temperature	T_{op}	0	-	70	°C
Power Consumption	P_w	14	-	16.5	W
Power Supply Voltage	V_{cc}	3.135	3.3	3.465	V
Storage Humidity	H_s	0	-	85	%
Storage Temperature	T_s	-40	-	85	°C
Transmission Distance	TD	-	-	2	km
Data Rate, each lane	DR_T	-	53.125	-	Gbps

PRE-O400-DR4+

OSFP, DR4+, 1310nm, 400G, 2km,
SMF/MPO12-APC, C-Temp



Optical Characteristics: Transmitter

Parameter	Symbol	Min	Typical	Max	Unit
Transmitter Wavelength	λ_c	1304.5	1310	1317.5	nm
Average Launch Power, each lane	P_{OUT}	-2.9	-	4	dBm
Optical Modulation Amplitude (OMA), per lane	P_{OMA}	-	-	4.2	dBm
for TDECQ<1.4dB		-0.1			
for 1.4dB<TDECQ<3.4dB		-1.5+TDECQ			
Transmitter and Dispersion Eye Closure for PAM4	TDECQ	-	-	3.4	dB
Transmitter Eye Closure for PAM4	TECQ	-	-	3.4	dB
TDECQ-TECQ		-	-	2.5	dB
Average Launch Power of OFF transmitter, per lane	P_{OFF}	-	-	-15	dBm
Side Mode Suppression Ratio	SMSR	30	-	-	dB
Relative Intensity Noise (OMA)	RIN	-	-	-136	dB/Hz
Extinction Ratio	ER	3.5	-	-	dB
Transmitter Reflectance	T_R	-	-	-26	dBm

Optical Characteristics: Receiver

Parameter	Symbol	Min	Typical	Max	Unit
Receiver Wavelength	λ_r	1304	1310	1317.5	nm
Damage Threshold, each lane	TH_d	5	-	-	dBm
Average Receive Power per lane	Rx_{AVG}	-6.9	-	4	dBm
Receive Power (OMA _{OUTER}) per lane	-	-	-	4.2	dBm
Receiver Reflectance	R_R	-	-	-26	dB
Stressed Receiver Sensitivity	SRS	-	-	-2.3	dBm
LOS Assert	LOS_A	-15	-	-	dBm
LOS De-Assert	LOS_D	-	-	-9.6	dBm
LOS Hysteresis	LOS_H	0.5	-	-	dB

Product Ordering Information

Part Number	Description
PRE-O400-DR4+	OSFP, DR4+, 1310nm, 400G, 2km, SMF/MPO12-APC, C-Temp

r1_01162026