

PRE-QD800-2DR4

QSFP-DD800, 2x400G-DR4, 1310nm, 800G, 500m,
SMF/Dual MPO12-APC, C-Temp



Product Features:

- EML Transmitters
- PIN Receivers
- 500m Reach over SMF
- Dual MPO-12/APC Optical Connector
- < 18W Power Consumption
- Commercial Temperature Rated
- Digital Diagnostic Monitoring (DDM)



Product Applications:

- 800GBASE-DR8 Ethernet
- 2x 400GBASE-DR4 Ethernet
- 8x 100GBASE-DR1 Ethernet

Standards:

- QSFP-DD MSA
- CMIS
- RoHS
- Class 1 Laser

General Specifications:

Parameter	Min	Typical	Max	Unit	Note
Operating Temperature	0	-	70	°C	
Operating Humidity	5	-	85	%	
Power Consumption	14	-	18	W	
Power Supply Voltage	3.135	3.3	3.465	V	
Transmission Distance	-	-	50	m	
Data Rate (Total)	-	850	-	Gbps	1
Signaling Rate per lane	-	106.25	-	GBd	2

Notes:

1 - Total aggregate bit rate

2 - Per lane electrical signalling rate with PAM4 modulation

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Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Wavelength	1304.5	1311	1317.5	nm
Average Launch Power, per lane	-2.9	-	4	dBm
Transmitter OFF Output Power, per lane	-	-	-30	dBm
Transmitter and Dispersion Eye Closure for PAM4, per lane	-	-	3.4	dBm
Optical Return Loss Tolerance	15.5	-	21.4	dB
Extinction Ratio	3.5	-	-	dB

Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Wavelength	1304.5	1311	1317.5	nm
Damage Threshold, per lane	5	-	-	dBm
Average Receive Power, per lane	-	-	4.2	dBm
Stressed Receiver Sensitivity, per lane	-	-	-3.9	dBm
Receiver Reflectance	-	-	-26	dB

Product Ordering Information

Part Number	Description
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