

PRE-QD800-2LR4

QSFP-DD800, 2x400G-LR4, 1310nm, 800G, 10km, SMF/LC



Product Features:

- 8x100G PAM4 Modulation
- EML Transmitters
- PIN Receivers
- 10km Reach
- SMF Transmission Medium
- Dual Duplex LC/UPC Connector
- Digital Diagnostic Monitoring
- C-Temp Rated
- <18W Power Consumption



Product Applications:

- 2x400G Ethernet

Standards:

- 100G Lambda MSA 400G-LR4-10
- IEEE 802.3cu for 400GBASE-LR4-6
- QSFP-DD800 MSA
- CMIS 5.0 or later
- RoHS

General Specifications:

Parameter	Min	Typical	Max	Unit
Case Operating Temperature	0	-	70	°C
Power Consumption	-	-	18	W
Power Supply Voltage	3.14	3.3	3.46	V
Operating Humidity	5	-	85	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	-	10	km
Data Rate (Total)	-	850	-	Gbps
Signaling Rate (Per Lane)	-	106.25	-	Gbps

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Optical Characteristics: Transmitter

Parameter		Min	Typical	Max	Unit
Wavelength 1, 5		1264.5	1271	1277.5	nm
Wavelength 2, 6		1284.5	1291	1297.5	nm
Wavelength 3, 7		1304.5	1311	1317.5	nm
Wavelength 4, 8		1324.5	1331	1337.5	nm
Transmit Power per Lane (Avg) ¹		-2.7	-	5.1	dBm
Tx Power in OMA _{Outer} per	TDECQ < 1.4dB	0.3	-	4.4	
	1.4dB ≤ TDECQ ≤ 3.9dB	-1.1+TDECQ	-	4.4	
Extinction Ratio		3.5	-	-	dB
Side Mode Suppression Ratio		30	-	-	dBm
Optical Return Loss Tolerance		-	-	15.6	dB
Transmitter OFF Output Power (Per Lane)		-	-	-16	dBm

Note 1: This value is informative and not the principal indicator of signal strength

Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Wavelength 1, 5	1264.5	-	1277.5	nm
Wavelength 2, 6	1284.5	-	1297.5	nm
Wavelength 3, 7	1304.5	-	1317.5	nm
Wavelength 4, 8	1324.5	-	1337.5	nm
Damage Threshold (Per Lane)	6.1	-	-	dBm
Receiver Sensitivity (Per Lane)	-	-	-6.8	dBm
Receive Power Per lane (Avg)	-9	-	5.1	dBm
Receiver Reflectance	-	-	-26	dB

Product Ordering Information

Part Number	Description
PRE-QD800-2LR4	QSFP-DD800, 2x400G-LR4, 1310nm, 800G, 10km, SMF/LC, C-Temp, DDM

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