

# PRE-QD800-VR8

QSFP-DD800, VR8, 850nm, 800G, 50m, MMF,  
MPO-16 APC, C-Temp

## Product Features:

- VCSEL Transmitters
- PIN Receivers
- 50m Reach over MMF
- MPO-16/APC optical connector
- <16W Power Consumption
- Commercial Temperature Rated
- Digital Diagnostic Monitoring (DDM)
- Class 1 Laser



## Product Applications:

- Data Centers
- 8x 100GBASE-VR1
- 4x 200GBASE-VR2
- 2x 400GBASE-VR4
- 1x 800GBASE-VR8

## Standards:

- QSFP-DD MSA Type 2
- CMIS
- IEEE 802.3df-2024
- RoHS

## General Specifications:

Parameter	Min	Typical	Max	Unit
Operating Temperature	0	-	70	°C
Power Consumption	-	-	16	W
Power Supply Voltage	3.135	3.3	3.465	V
Operating Humidity	5	-	85	%
Storage Temperature	-40	-	85	°C
Transmission Distance	-	-	50	m
Data Rate (Total)	-	106.25	-	Gbps
Signaling Rate per Lane	-	53.125	-	GBd
RMS spectral width	-	-	0.6	db

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## Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Wavelength	842	850	868	nm
Average Launch Power, each lane	-4.6	-	4	dbm
Extinction Ratio	2.5	-		db
Transmitter and Dispersion Eye Closure, each lane Closure for PAM4, per Lane	-	-	4.4	dbm
Optical Return Loss Tolerance	-	-	14	db
Transmitter OFF Output Power, each lane	-	-	-30	dbm

## Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Wavelength	842	850	868	nm
Average Receive Power, each lane	-6.4	-	4	dBm
Stressed Receiver Sensitivity, each Lane	-	-	-2	dBm
Damage Threshold, each lane	5	-	-	dBm
Receiver Reflectance	-	-	-15	dB

## Product Ordering Information

Part Number	Description
PRE-QD800-VR8	QSFP-DD800, VR8, 850nm, 800G, 50m, MMF, MPO-16 APC, C-Temp

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