

# PRE-QSFP112-VR4

QSFP112, VR4, 850nm, 400G, 50m, MMF,  
MPO-12/APC, C-Temp



## Product Features:

- VCSEL Transmitters
- PIN Receivers
- 50m Reach over MMF
- MPO-12/APC Optical Connector
- <9W Power Consumption
- Commercial Temperature Rated
- Digital Diagnostic Monitoring

## Product Applications:

- 1x400GBASE-VR4 Ethernet
- 2x200GBASE-VR2 Ethernet
- 4x100GBASE-VR1 Ethernet

## Standards:

- QSFP112 MSA
- CMIS
- IEEE Std 802.3ck/db
- RoHS
- Class 1 Laser

## General Specifications:

Parameter	Min	Typical	Max	Unit	Note
Operating Temperature	0	-	70	°C	
Operating Humidity	5	-	85	%	
Power Consumption	-	-	9	W	
Power Supply Voltage	3.135	3.3	3.465	V	
Transmission Distance	-	-	50	m	
Data Rate (Total)	-	425	-	Gbps	1
Signaling Rate per Lane	-	53.125	-	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	840	850	870	nm
Average Launch Power, per lane	-4.6	-	4	dBm
Transmitter OFF Output Power, per lane	-	-	-30	dBm
Transmitter and Dispersion Eye Closure for PAM4, per lane	-	-	4.4	dBm
RMS Spectral Width	-	-	0.65	dB
Extinction Ratio	2.5	-	-	dB

## Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Wavelength	840	-	948	nm
Damage Threshold, per lane	5	-	-	dBm
Average Receive Power, per lane	-6.2	-	4	dBm
Stressed Receiver Sensitivity, per lane	-	-	-1.8	dBm
Receiver Reflectance	-	-	-15	dB

## Product Ordering Information

Part Number	Description
PRE-QSFP112-VR4	QSFP112, VR4, 850nm, 400G, 50m, MMF, MPO-12/APC, C-Temp

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