

# PRE-QSFP28-EZR4

QSFP28, EZR4, LWDM, 100G, 100km, SMF/LC, DDM



## Product Features:

- EML Transmitters
- SOA-PIN Receivers
- LWDM Wavelengths
- SMF Transmission Medium
- LC/UPC Connector
- Digital Diagnostic Monitoring (DDM)
- 103.125 Gbps Maximum Data Rate
- <6.5W maximum power consumption



## Product Applications:

- 100GBASE-ZR4 Ethernet
- Backhaul and WAN Networks

## Standards:

- Compliant with QSFP28 MSA
- SFF-8636/8661/8679
- IEEE 802.3ba/bm
- RoHS

## General Specifications:

Parameter	Min	Typical	Max	Unit
Case Operating Temperature (Commercial)	0	-	70	°C
Power Consumption	-	5.5	6.5	W
Power Supply Voltage	3.14	3.3	3.47	V
Storage Humidity	5	-	85	%
Storage Temperature	-40	-	85	°C
Transmission Distance <sup>1</sup>	-	-	100	km
Data Rate (Total)	-	103.125	-	Gbps
Data Rate (Per Lane)	-	25.78125	-	Gbps

Note 1: Requires Host based KR4 FEC

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## Optical Characteristics: Transmitter

Parameter	Min	Typical	Max	Unit
Center Wavelength 1	1294.53	1295.56	1296.59	nm
Center Wavelength 2	1299.02	1300.05	1301.09	nm
Center Wavelength 3	1303.54	1304.58	1305.63	nm
Center Wavelength 4	1308.09	1309.14	1310.19	nm
Transmit Power per Lane (Avg)	4	-	7	dBm
Side Mode Suppression Ratio	30	-	-	dB
Extinction Ratio	8	-	-	dB
Spectral Width	-	-	1	nm
Optical Return Loss Tolerance	-	-	20	dB
Relative Intensity Noise	-	-	-130	dB/Hz
Transmitter OFF Power per Lane	-	-	-30	dBm

## Optical Characteristics: Receiver

Parameter	Min	Typical	Max	Unit
Receiver Wavelength 1	1294.53	1295.56	1296.59	nm
Receiver Wavelength 2	1299.02	1300.05	1301.09	nm
Receiver Wavelength 3	1303.54	1304.58	1305.63	nm
Receiver Wavelength 4	1308.09	1309.14	1310.19	nm
Receive Power per Lane (Avg)	-28	-	-2	dBm
Receiver Sensitivity (OMA)	-	-	-25.5	dBm
Damage Threshold per Lane	5	-	-	dBm
LOS Assert	-30	-	-	dBm
LOS De-assert	-	-	-29	dBm
LOS Hysteresis	0.5	-	-	dBm

## Product Ordering Information

Part Number	Description
PRE-QSFP28-EZR4	QSFP28, EZR4, LWDM, 100G, 100km, SMF/LC, C-Temp, DDM