

QSFP-100G-ZR4-SY

100GBASE-ZR4 QSFP28, 1295.56/1300.05/1304.58/1309.14 nm, 80 km SMF TRANSCEIVER

1. FEATURES AND SPECIFICATIONS

- Form Factor: QSFP28
- > Operating Data Rate: 100G
- Protocol(s): 100GE
- Fiber Type: SMF
- Technique: ZR4
- Lane Count: 4
- Wavelength(s)/Channel(s): 1295.56/1300.05/ 1304.58/1309.14 nm
- Nominal Distance: 80 km

- Nominal Power Budget: 31.0 dB
- Connector: LC duplex
- Temperature Range: 0 to 70°C, -40 to 85°C
- Compliance: MSA QSFP28, IEEE 802.3ba, SFF-8636
- Monitoring: Digital diagnostic monitor interface
- Laser Type: EML
- Receiver Type: SOA+PIN
- Power Dissipation: 6.5 W

2. ABSOLUTE CHARACTERISTICS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SIGNAL INPUT VOLTAGE	V _{IN}	-0.3	-	3.6	V
POWER SUPPLY VOLTAGE	V _{cc}	-0.5	-	3.6	V
OPERATING TEMPERATURE	T _{CASE}	0	-	70	°C
STORAGE TEMPERATURE	Ts	-40	-	85	°C



3. ELECTRICAL OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
SUPPLY CURRENT	I _{CC}	-	-	1.4	A
SUPPLY VOLTAGE	V _{cc}	3.13	3.3	3.47	V

4. OPTICAL CHARACTERISTICS

RECEIVER

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
OPTICAL WAVELENGTH	λC		1295.56/1300.05/ 1304.58/1309.14	1296.59/1301.09/ 1305.63/1310.19	nm
LOS HYSTERESIS	LOS _H	0.5	-	-	dB
LOS ASSERT	LOS _A	-40	-	-32	dBm
LOS DE-ASSERT	LOS _D	-	-	-29	dBm
RX MAX. SENSITIVITY	P _{MIN}	-	-	-29	dBm
DAMAGE THRESHOLD	P _{MAX}	-3.5	-	-	dBm

TRANSMITTER

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT
OPTICAL WAVELENGTH	λC		1295.56/1300.05/ 1304.58/1309.14	1296.59/1301.09/ 1305.63/1310.19	nm
OPTICAL EXTINCTION RATIO	ER	8	-	-	dB
SIDE MODE SUPPRESSION RATIO	SMSR	30	-	-	dBm
SPECTRAL WIDTH	Δλ	-	-	1	dBm
OPTICAL TRANSMIT POWER	P _{OUT}	2	-	6.5	dBm



5. ORDERING INFORMATION

PART NAME	DESCRIPTION
QSFP-100G-ZR4-SY	100GBase ZR4 QSFP28, 1295.56/1300.05/1304.58/1309.14 nm, 80 km over SMF, LC duplex, speeddy
QSFP-100G-ZR4-I-SY	100GBase ZR4 QSFP28, 1295.56/1300.05/1304.58/1309.14 nm, 80 km over SMF, LC duplex, Industrial temperature -40 to 85°C, speeddy

6. COMPATIBILITY

ARISTA NETWORKS (QSFP-100G-ERL4), CISCO SYSTEMS (QSFP-100G-ER4L-S), EXTREME (100G-LR4-QSFP10KM), HUAWEI (QSFP-100G-ER4-LITE), JUNIPER (QSFP-100G-ER4L), MSA (QSFP-100G-ZR4), NOKIA/ALCATEL-LUCENT (3HE10550AA, 3HE11239AA)

7. WARNINGS AND SECURITY INFORMATION



CAUTION: Class 1 visible laser radiation present. Long term viewing of the laser can be harmful to the human eye.



This equipment has been tested according to European legislation and has been found safe, non-intervening with other electronic devices and is not subject to interference from other electronic devices



Hazardous Goods; our products are fully compliant with Directive 2011/65/EU (RoHS II) and 2002/95 EC (RoHS I)

Laser Class 1

Our products comply with 21 CFR 1040.10 and 1040.11, except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007



Only (dis)connect the transceivers in an ESD Protected Area while using certified equipment and taking all necessary precautions as specified in IEC 61340-5-1.

8. DISCLAIMER AND LEGAL NOTICES

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