100G QSFP28 ER1 BIDI 1304/1309nm

Variants

40km LC

Details

100G QSFP28 BiDi ER1 Optical Transceiver – 40km LC

Key Features

Features
QSFP28 MSA package with simplex LC connector
Compliant to 100G Lambda MSA 100G-ER1
53.125GBd PAM4 lane signaling
Digital Diagnostic Monitoring (DDM)
Up to 40km transmission over SMF
Max power consumption 4.5W
KP4 FEC support (enable / disable)
Operating temperature: 0°C to +70°C
3.3V power supply, RoHS2 compliant, Class 1 laser

Applications

Applications
100 Gigabit Ethernet
Data Center Interconnect (DCI)

Absolute Maximum Ratings

Parameter	Min	Max	Unit
Storage Temperature	-40	85	°C
Humidity	5	85	%
Supply Voltage	0	3.6	V

Recommended Operating Conditions

Parameter	Min	Typical	Max
Temperature	0°C	-	70°C
Voltage	3.135V	3.3V	3.465V
Power	-	-	4.5W
Distance	-	-	40km

Optical Characteristics

Parameter	Value
Wavelength	1304 ~ 1309 nm
Tx Power	1.5 ~ 7.1 dBm
Receiver Sensitivity	-14 dBm

Extinction Ratio	? 6 dB

Electrical Characteristics

Parameter	Value
Input Impedance	100 ?
Output Voltage	? 900 mVp-p
Logic High	2.0V to VCC

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