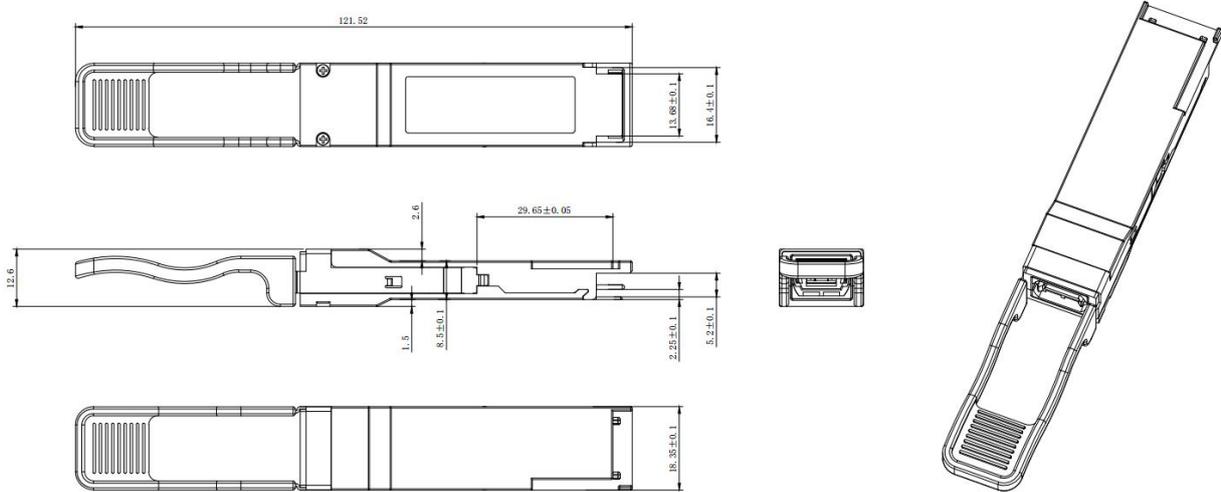




Product specification

QSFP+ 40G MPO/MPO 850NM

15-QSFPCMM40G



Description

This optical transceiver is intended for up to 20km reach with 10.3125G data rate. It is based on 3.3V DC power supply. Suitable for 40G BASE Ethernet, infiniband EDR interconnects and enterprise networking applications. MPO-12/APC optical interface QSFP MSA compliant and hot pluggable.

Specification

Transmitter Electrical Specifications		
Differential data input swing	Min. 180mV Max. 900mV	
Tx Differential Input Impedance	Typical 100Ω	
Tx Differential Output Impedance	Typical 50Ω	
ResetL Disable Voltage	≥2.0V	
ResetL Enable Voltage	≤0.8V	
Receiver Electrical Specifications		
Differential Data Output Swing	Min. 180mV Max. 900mV	
Rx Differential Output Impedance	Typical 100Ω	
IntL Assert Voltage	VCC-0.5~VCC+0.3	
IntL De-assert Voltage	0~0.4V	
Transmitter Optical Specification		
Signal Rate	10.3125±100ppm Gbps	
Lane Wavelength	L0	1310nm
	L1	1310nm
	L2	1310nm
	L3	1310nm
Side Mode Suppression Ratio	≥30dB	
Average Launch Power	≤2.5dBm	

The facts and figures contained herein are carefully compiled to the best of our knowledge, but they are intended for general informational purposes only.

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Product specification

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Optical Modulation Amplitude	≤2dBm	
Transmitter and dispersion penalty	≤2.6dB	
Eye Mask Coordinates: X1, X2, X3, Y1, Y2, Y3	{0.25, 0.4, 0.45, 0.25, 0.28, 0.4}	
Average launch power of OFF transmitter	≤-30dBm	
Extinction Ratio	≥3.5dB	
Spectral Width	≤1nm	
Transmitter Reflectance	≤-12dB	
Optical return loss tolerance	≤20dB	
Receiver Optical Specification		
Signal Speed per Lane	10.3125±100ppm Gbps	
Lane Wavelength	L0	1310nm
	L1	1310nm
	L2	1310nm
	L3	1310nm
Damage Threshold	≥2.5dBm	
Average Receive Power	≥-12.6dBm ≤2dBm	
Receiver reflectance	≤-26dB	
Sensitivity OMA	≤-12dBm	
Stressed Receiver Sensitivity	≤-8.6dBm	
LOS Assert	≥-30dBm	
LOS Deassert	≤-17dBm	
LOS Hysteresis	0.5~5dB	
Vertical Eye Closure Penalty	≥1.9	
Stressed Eye J2 Jitter	≥0.3	
Stressed Eye J4 Jitter	≥0.47	
Operating Conditions		
Storage Temperature	-40~+95°C	
Case Operating Temperature	0~+70°C	
Relative humidity – Storage	≤95%	
Relative humidity – Operating	≤85%	
Supply Voltage	≤3.6V (3.135~3.465V Recommended)	

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