

Features:

- QSFP-DD Module compliant to QSFP-DD MSA
- QSFP Module compliant to SFF-8661
- Transmission data rate up to 53.125Gbps per channel
- Enable 400Gb/s to 2x200Gb/s Transmission
- Link length up to 3m
- Built-in EEPROM functions
- Operating case temperature 0°C to +70°C
- RoHS2.0 compliant



1. Absolute Maximum Ratings

Parameter	Symbol	Min	Typical	Max	Unit
Supply Voltage	Vcc	3.13	3.3	3.47	V
Storage temperature	Ts	-40	-	85	°C
Operating Case temperature	Tc	0	-	70	°C
Humidity	Rh	5	-	85	%
Data Rate	-	-	400	-	Gbps

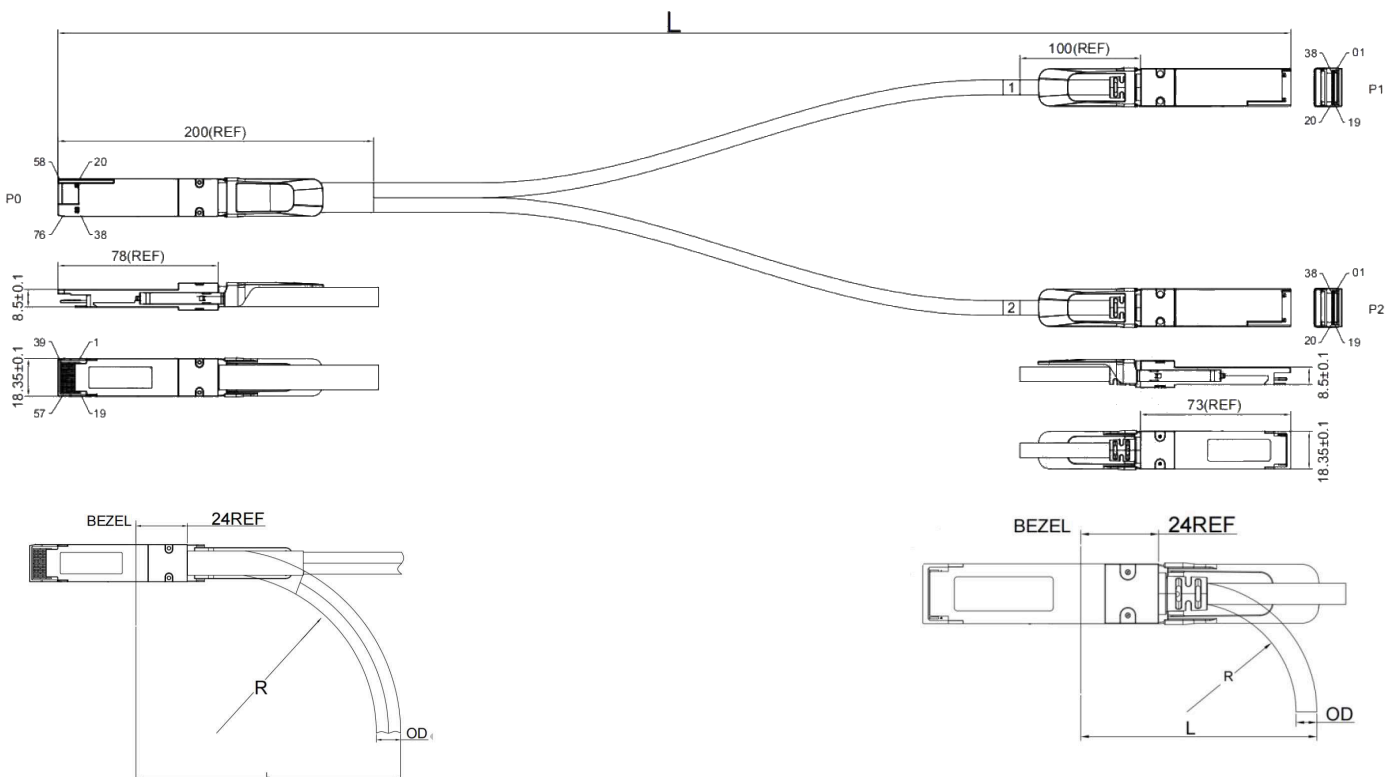
2. High Speed Characteristics

Parameter	Symbol	Min	Typical	Max	Unit
Length	L	0.5		3.0	M
AWG		30		27	AWG
Jacket material		PVC, Black (or Customization)			

3. Electrical Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Resistance	Rcon	-	-	3	ohm
Insulation Resistance	Rins	-	-	10	Mohm
Raw cable impedance	Zca	95	100	110	ohm
Mated connector Impedance	Zmated	85	100	110	ohm
Insertion loss at 13.28GHz	SDD21	8		17.16	dB
Return loss	SDD11/22	$\text{Return_loss}(f) \geq \begin{cases} 16.5-2\sqrt{f} & 0.05 \leq f < 4.1 \\ 10.66-14\log_{10}(f/5.5) & 4.1 \leq f \leq 19 \end{cases}$			dB
Differential to common-mode return loss	SCD11/22	$\text{Return_loss}(f) \geq \begin{cases} 22-(20/25.78)f & 0.01 \leq f < 12.89 \\ 15-(6/25.78)f & 12.89 \leq f \leq 19 \end{cases}$			dB
Differential to common-mode conversion loss	SCD21-SDD21	$\text{Conversion_loss}(f) - \text{IL}(f) \geq \begin{cases} 10 & 0.01 \leq f < 12.89 \\ 27-(29/22)f & 12.89 \leq f < 15.7 \\ 6.3 & 15.7 \leq f \leq 19 \end{cases}$			dB
Minimum COM	COM	3			dB

4. Mechanical Diagram



QSFP-DD				QSFP56			
Guage	OD	Bend Radius "R"	Min. Bend Radius "R"	Guage	OD	Bend Radius "R"	Min. Bend Radius "R"
30AWG	14MM	70MM	170MM	30AWG	7.0MM	35MM	80MM
27AWG	17.6MM	88MM	190MM	27AWG	8.8MM	44MM	90MM

Note: External physical characteristics are subject to variation. This may include, but is not limited to, external case designs, pull tab colors and/or shapes, removal latch styles or colors, and label sizes and placement. These variations do not affect the function or characteristics of the transceivers.

5. Ordering Information

OEM	Part Number	OEM	Part Number
Arista	CAB-D-2Q-400G-1M-A	Nvidia/Mellanox	MCP7H60-W02AR26-A
Arista	CAB-D-2Q-400-1.5-A	Nvidia/Mellanox	MCP7H60-W003R26-A
Arista	CAB-D-2Q-400G-2M-A	MSA	AN-QDD400G2Q-P-1M
Arista	CAB-D-2Q-400-2.5-A	MSA	AN-QDD400G2Q-P-1.5M
Arista	CAB-D-2Q-400G-3M-A	MSA	AN-QDD400G2Q-P-2M
Nvidia/Mellanox	MCP7H60-W001R30-A	MSA	AN-QDD400G2Q-P-2.5M
Nvidia/Mellanox	MCP7H60-W01AR30-A	MSA	AN-QDD400G2Q-P-3M
Nvidia/Mellanox	MCP7H60-W002R26-A		

6. Contact Information

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