

## Features:

- QSFP-DD Module compliant to QSFP-DD MSA
- QSFP Module compliant to SFF-8661
- Transmission data rate up to 25.78Gbps per channel
- Enable 200Gb/s to 4x50Gb/s Transmission
- Link length up to 4.5m
- 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	-	-	200	-	Gbps

## 2. Physical Characteristics

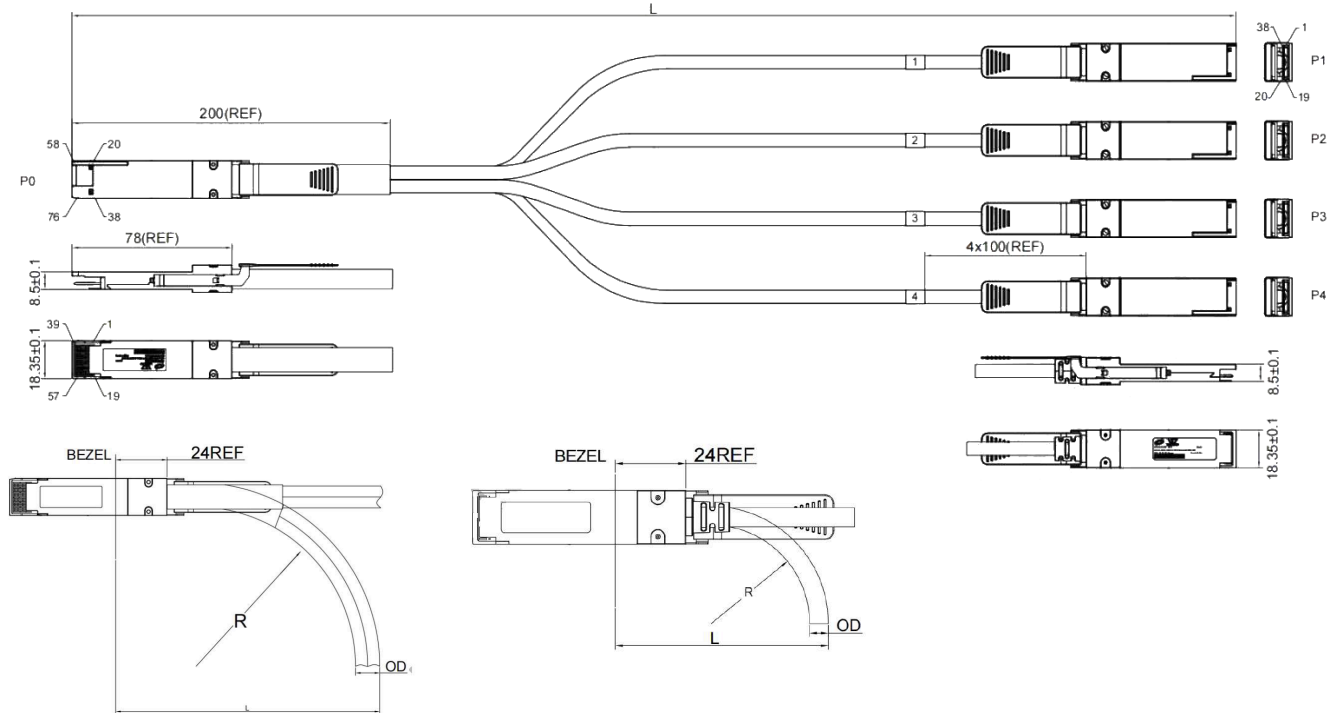
Parameter	Symbol	Min.	Typical	Max.	Unit
Length	L	0.5		4.5	M
AWG		30		27	AWG
Jacket material		PVC, Black (or Customization)			

## 3. Electrical Specifications

Parameter	Symbol	Min	Typ.	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 12.89GHz	SDD21	8		22.48	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	$\text{Return\_loss}(f) \geq \begin{cases} 22-(20/25.78)\sqrt{f} & 0.01 \leq f < 12.89 \\ 15-(6/25.78)\sqrt{f} & 12.89 \leq f \leq 19 \end{cases}$			dB
Differential to common-mode conversion loss	SCD21-SDD21	$\text{Conversion\_loss}(f) - \text{IL}(f) \geq \begin{cases} 10 & 0.01 \leq f < 12.89 \\ 27-(29/22)\sqrt{f} & 12.89 \leq f < 15.7 \\ 6.3 & 15.7 \leq f \leq 19 \end{cases}$			dB
Minimum COM	COM	3			dB

## 4. Mechanical Diagram



QSFP-DD				QSFP28			
GAUGE	OD	BEND RADIUS R	MIN. BEND RADIUS L	GAUGE	OD	BEND RADIUS R	MIN. BEND RADIUS L
30AWG	12MM	60MM	155MM	30AWG	6.0MM	30MM	68MM
28AWG	12.4MM	62MM	160MM	28AWG	6.2MM	31MM	70MM
27AWG	14.4MM	72MM	165MM	27AWG	7.2MM	36MM	85MM

**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-4Q-200G-1M-A	MSA	AN-D200G4Q-P-1M
Arista	CAB-D-4Q-200-1.5-A	MSA	AN-D200G4Q-P-1.5M
Arista	CAB-D-4Q-200G-2M-A	MSA	AN-D200G4Q-P-2M
Arista	CAB-D-4Q-200-2.5-A	MSA	AN-D200G4Q-P-2.5M
Arista	CAB-D-4Q-200G-3M-A	MSA	AN-D200G4Q-P-3M

## 6. Contact Information

Tel: 800.590.9535

Web: <http://www.approvednetworks.com>