

Features:

- QSFP Module compliant to SFF-8661
- Transmission data rate up to 25.78Gbps per channel
- Enable (4X25.78)100Gb/s Transmission
- Maximum link length up to 5m
- Built-in EEPROM functions
- Operating case temperature 0°C ~ +70°C
- RoHS compliant



1. Absolute Maximum Ratings

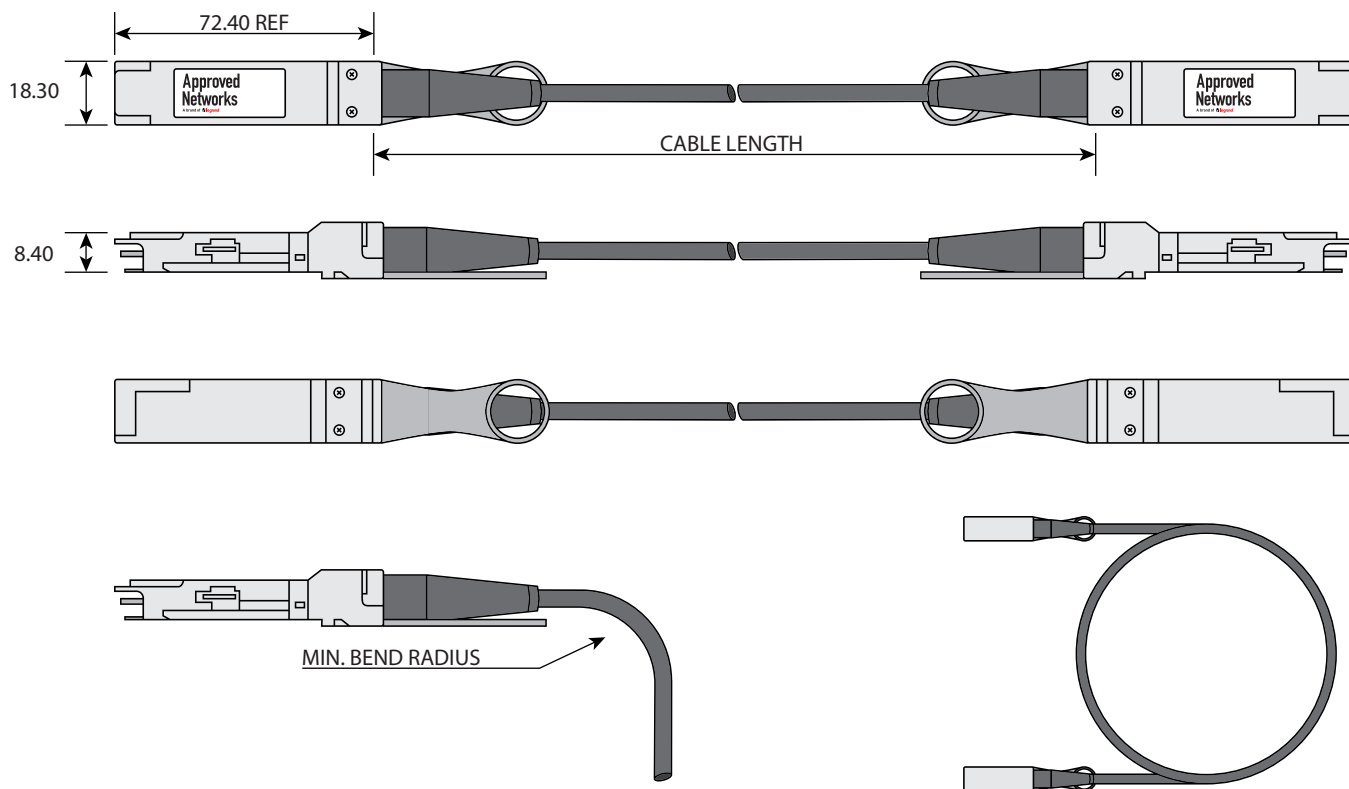
Parameter	Symbol	Min	Typical	Max	Unit
Supply Voltage	Vcc	3.13	3.3	3.47	V
Storage temperature	Ts	-40		85	°C
Operating Case temperature	Tc	0		70	°C
Humidity	Rh	5		85	%
Data Rate			100		Gbps

2. Electrical Specifications

Parameter	Symbol	Min	Typical	Max	Unit
Resistance	Rcon			3	ohm
Insulation Resistance	Rins			10	Mohm
Raw cable impedance	Zca	95	100	105	ohm
Mated connector Impedance	Zmated	85	100	115	ohm

Insertion loss at 12.89 GHz	SDD21	8		22.48	dB
Return loss at 12.89 GHz	SDD11/22	Return_loss(f) ≥ $\begin{cases} 16.5-2\sqrt{f} & 0.05 \leq f < 4.1 \\ 10.66-14\log_{10}(f/5.5) & 4.1 \leq f \leq 19 \end{cases}$			dB
Differential to common-mode return loss	SCD11/22	Return_loss(f) ≥ $\begin{cases} 22-(20/25.78)f & 0.01 \leq f < 12.89 \\ 15-(6/25.78)f & 12.89 \leq f \leq 19 \end{cases}$			dB
Differential to common-mode conversion loss	SCD21-SDD21	Conversion_loss(f) - IL(f) ≥ $\begin{cases} 10 & 0.01 \leq f < 12.89 \\ 27-(29/22)f & 0.01 \leq f < 15.7 \\ 6.3 & 15.7 \leq f \leq 19 \end{cases}$			dB
Minimum COM	COM	3			dB

3. Mechanical Diagram



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.

4. Ordering Information

OEM	Part Number	OEM	Part Number
Amphenol	NDAAFF0004-A	Juniper	JNP-100G-DAC-4M-A
Amphenol	NDAAFF0001-A	Juniper	JNP-100G-DAC-1M-A
Amphenol	NDAAFG0005-A	Juniper	JNP-100G-DAC-2M-A
Amphenol	NDAAFF0002-A	Juniper	JNP-100G-DAC-3M-A
Amphenol	NDAAFG0006-A	Juniper	JNP-100G-DAC-5M-A
Amphenol	NDAAFF0003-A	Juniper	JNP-100G-DAC-1M-C1
Amphenol	NDAAFF-0005-A	Juniper	JNP-100G-DAC-3M-C1
Amphenol	NDAAFJ-0004-A	Juniper	JNP-100G-DAC-5M-C1
Arista	CAB-Q-Q-100G-0.5M-A	Mellanox	MCP1600-C0005-A
Arista	CAB-Q-Q-100G-1M-A	Mellanox	MCP1600-C001-5-A
Arista	CAB-Q-Q-100G-1.5M-A	Mellanox	MCP1600-C002-5-A
Arista	CAB-Q-Q-100G-2M-A	Mellanox	MCP1600-C004-A
Arista	CAB-Q-Q-100G-2.5M-A	Mellanox	MCP1600-C001-A
Arista	CAB-Q-Q-100G-3M-A	Mellanox	MCP1600-C002-A
Arista	CAB-Q-Q-100G-4M-A	Mellanox	MCP1600-C003-A
Arista	CAB-Q-Q-100G-5M-A	Mellanox	MCP1600-C005-A
Brocade	100G-Q28-Q28-C-00501-A	Molex	1002971051-A
Brocade	100G-Q28-Q28-C-0101-A	Molex	1002971151-A
Brocade	100G-Q28-Q28-C-01501-A	Molex	1002971251-A
Brocade	100G-Q28-Q28-C-0201-A	Molex	1002973401-A
Brocade	100G-Q28-Q28-C-02501-A	Molex	1002971101-A
Brocade	100G-Q28-Q28-C-0301-A	Molex	1002971201-A
Brocade	100G-Q28-Q28-C-0401-A	Molex	1002971301-A
Brocade	100G-Q28-Q28-C-0501-A	Molex	1002973501-A
Cisco	QSFP-100G-CU0.5M-A	MSA	AN-QSFP28-100GB-DACP-50
Cisco	QSFP-100G-CU1M-A	MSA	AN-QSFP28-100GB-DACP-1.5M
Cisco	QSFP-100G-CU1.5M-A	MSA	AN-QSFP28-100GB-DACP-2.5M
Cisco	QSFP-100G-CU2M-A	MSA	AN-QSFP28-100GB-DACP-4M
Cisco	QSFP-100G-CU2.5M-A	MSA	AN-QSFP28-100GB-DACP-1M
Cisco	QSFP-100G-CU3M-A	MSA	AN-QSFP28-100GB-DACP-2M
Cisco	QSFP-100G-CU4M-A	MSA	AN-QSFP28-100GB-DACP-3M
Cisco	QSFP-100G-CU5M-A	MSA	AN-QSFP28-100GB-DACP-5M
Dell	470-ABPW-A	MSA Champion ONE	100GQSFP28E-DA01
Dell	470-ABPY-1.5M-A	MSA Champion ONE	100GQSFP28E-DA02
Dell	470-ABQG-2.5M-A	MSA Champion ONE	100GQSFP28E-DA03

Dell	470-ABQE-4M-A	MSA Champion ONE	100GQSFP28E-DA05
Dell	470-ABPY-A	MSA Champion ONE	CAB-QSFP-100G-DACP-1M-C1
Dell	470-ABQG-A	MSA Champion ONE	CAB-QSFP-100G-DACP-3M-C1
Dell	470-ABQE-A	MSA Champion ONE	CAB-QSFP-100G-DACP-5M-C1
Dell	470-ABPU-A	MSA Champion ONE	CAB-QSFP28-DACP-50CM-C1
Edgecore	ET7402-100DAC-50CM-A	MSA Champion ONE	CAB-QSFP28-DACP-50CM-I-C1
Edgecore	ET7402-100DAC-1M-A	MSA Champion ONE	CAB-QSFP28-DACP-1M-C1
Edgecore	ET7402-100DAC-1.5M-A	MSA Champion ONE	CAB-QSFP28-DACP-1M-I-C1
Edgecore	ET7402-100DAC-2M-A	MSA Champion ONE	CAB-QSFP28-DACP-2M-C1
Edgecore	ET7402-100DAC-2.5M-A	MSA Champion ONE	CAB-QSFP28-DACP-2M-I-C1
Edgecore	ET7402-100DAC-3M-A	MSA Champion ONE	CAB-QSFP-100G-DACP-2M-C1
Edgecore	ET7402-100DAC-4M-A	MSA Champion ONE	CAB-QSFP28-DACP-3M-C1
Edgecore	ET7402-100DAC-5M-A	MSA Champion ONE	CAB-QSFP28-DACP-3M-I-C1
Extreme	104005-A	MSA Champion ONE	CAB-QSFP28-DACP-5M-I-C1
Extreme	10411-A	MSA Champion ONE	CAB-QSFP-100G-DACP-1.5M-C1
Extreme	104115-A	NVIDIA	MCP1600-C00AE30N
Extreme	10412-A	NVIDIA	MCP1600-C001E30N
Extreme	104125-A	NVIDIA	MCP1600-C01AE30N
Extreme	10413-A	NVIDIA	MCP1600-C002E30N
Extreme	104144-A	NVIDIA	MCP1600-C02AE30L
Extreme	10414-A	NVIDIA	MCP1600-C02AE26N
Intel	100CQQH3005-A	NVIDIA	MCP1600-C003E30L
Intel	100CQQH2615-A	NVIDIA	MCP1600-C003E26N
Intel	100CQQH2625-A	NVIDIA	MCP1600-C005E26L
Intel	100CQQH2640-A	Siemon	Q1Q28P300.5-01-A
Intel	100CQQH3010-A	Siemon	Q1Q28P301.5-01-A
Intel	100CQQH2620-A	Siemon	Q1Q28P262.5-01-A
Intel	100CQQH2630-A	Siemon	Q1Q28P264.0-01-A
Intel	100CQQH2650-A	Siemon	Q1Q28P301.0-01-A
Juniper	JNP-100G-DAC-50CM-A	Siemon	Q1Q28P302.0-01-A
Juniper	JNP-100G-DAC-1.5M-A	Siemon	Q1Q28P263.0-01-A
Juniper	JNP-100G-DAC-2.5M-A	Siemon	Q1Q28P265.0-01-A

5. Contact Information

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