

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
Industrial temperature: -40°C ~ +85°C
- RoHS2.0 compliant



1. Absolute Maximum Ratings

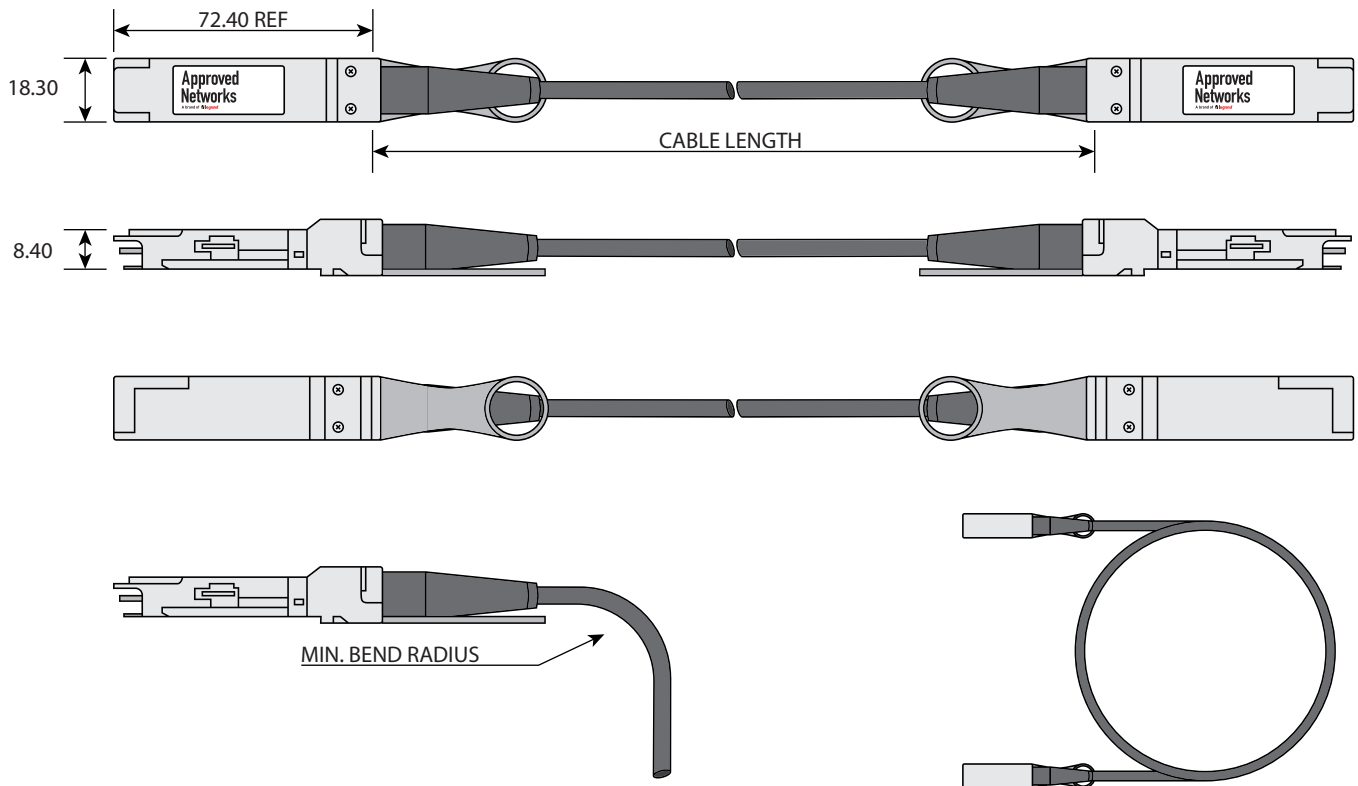
Parameter	Symbol	Min	Typical	Max	Unit
Supply Voltage	Vcc	3.13	3.3	3.47	V
Storage temperature	Ts	-40		85	°C
Operating Case temperature	Tc	-40		85	°C
Humidity	Rh	5		85	%
Data Rate			100		Gbps

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) ≥	$\left\{ \begin{array}{ll} 16.5-2\sqrt{f} & 0.05 \leq f < 4.1 \\ 10.66-14\log_{10}(f/5.5) & 4.1 \leq f \leq 19 \end{array} \right\}$		dB
Differential to common-mode return loss	SCD11/22	Return_loss(f) ≥	$\left\{ \begin{array}{ll} 22-(20/25.78)f & 0.01 \leq f < 12.89 \\ 15-(6/25.78)f & 12.89 \leq f \leq 19 \end{array} \right\}$		dB
Differential to common-mode conversion loss	SCD21-SDD21	Conversion_loss(f) - IL(f) ≥	$\left\{ \begin{array}{ll} 10 & 0.01 \leq f < 12.89 \\ 27-(29/22)f & 0.01 \leq f < 15.7 \\ 6.3 & 15.7 \leq f \leq 19 \end{array} \right\}$		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	NVIDIA	MCP1600-C002E30N-A
Amphenol	NDAAFF0001-A	NVIDIA	MCP1600-C003E40L-A
Amphenol	NDAAFG0005-A	NVIDIA	MCP1600-C001E30N-A
Amphenol	NDAAFF0002-A	NVIDIA	QSFP28-100GB-DACP-AP-NV-25-A
Amphenol	NDAAFG0006-A	NVIDIA	MCP1600-C003E30L-A
Amphenol	NDAAFF0003-A	NVIDIA	MCP1600-C005E26L-A
Amphenol	NDAAFF-0005-A	Siemon	Q1Q28P300.5-01-A
Amphenol	NDAAFJ-0004-A	Siemon	Q1Q28P301.5-01-A
Arista	CAB-Q-Q-100G-0.5M-A	Siemon	Q1Q28P262.5-01-A
Arista	CAB-Q-Q-100G-1M-A	Siemon	Q1Q28P264.0-01-A
Arista	CAB-Q-Q-100G-1.5M-A	Siemon	Q1Q28P301.0-01-A
Arista	CAB-Q-Q-100G-2M-A	Siemon	Q1Q28P302.0-01-A
Arista	CAB-Q-Q-100G-2.5M-A	Siemon	Q1Q28P263.0-01-A
Arista	CAB-Q-Q-100G-3M-A	Siemon	Q1Q28P265.0-01-A
Arista	CAB-Q-Q-100G-4M-A	Juniper	JNP-100G-DAC-2.5M-A
Arista	CAB-Q-Q-100G-5M-A	Juniper	JNP-100G-DAC-4M-A
Brocade	100G-Q28-Q28-C-00501-A	Juniper	JNP-100G-DAC-1M-A
Brocade	100G-Q28-Q28-C-0101-A	Juniper	JNP-100G-DAC-2M-A
Brocade	100G-Q28-Q28-C-01501-A	Juniper	JNP-100G-DAC-3M-A
Brocade	100G-Q28-Q28-C-0201-A	Juniper	JNP-100G-DAC-5M-A
Brocade	100G-Q28-Q28-C-02501-A	Juniper	JNP-100G-DAC-1M-C1
Brocade	100G-Q28-Q28-C-0301-A	Juniper	JNP-100G-DAC-3M-C1
Brocade	100G-Q28-Q28-C-0401-A	Juniper	JNP-100G-DAC-5M-C1
Brocade	100G-Q28-Q28-C-0501-A	Mellanox	MCP1600-C0005-A
Cisco	QSFP-100G-CU0.5M-A	Mellanox	MCP1600-C001-5-A
Cisco	QSFP-100G-CU1M-A	Mellanox	MCP1600-C002-5-A
Cisco	QSFP-100G-CU1.5M-A	Mellanox	MCP1600-C004-A
Cisco	QSFP-100G-CU2M-A	Mellanox	MCP1600-C001-A
Cisco	QSFP-100G-CU2.5M-A	Mellanox	MCP1600-C002-A
Cisco	QSFP-100G-CU3M-A	Mellanox	MCP1600-C003-A
Cisco	QSFP-100G-CU4M-A	Mellanox	MCP1600-C005-A
Cisco	QSFP-100G-CU5M-A	Molex	1002971051-A
Dell	470-ABPW-A	Molex	1002971151-A
Dell	470-ABPY-1.5M-A	Molex	1002971251-A
Dell	470-ABQG-2.5M-A	Molex	1002973401-A

Dell	470-ABQE-4M-A	Molex	1002971101-A
Dell	470-ABPY-A	Molex	1002971201-A
Dell	470-ABQG-A	Molex	1002971301-A
Dell	470-ABQE-A	Molex	1002973501-A
Dell	470-ABPU-A	MSA	AN-QSFP28-100GB-DACP-50
Edgecore	ET7402-100DAC-50CM-A	MSA	AN-QSFP28-100GB-DACP-1.5M
Edgecore	ET7402-100DAC-1M-A	MSA	AN-QSFP28-100GB-DACP-2.5M
Edgecore	ET7402-100DAC-1.5M-A	MSA	AN-QSFP28-100GB-DACP-4M
Edgecore	ET7402-100DAC-2M-A	MSA	AN-QSFP28-100GB-DACP-1M
Edgecore	ET7402-100DAC-2.5M-A	MSA	AN-QSFP28-100GB-DACP-2M
Edgecore	ET7402-100DAC-3M-A	MSA	AN-QSFP28-100GB-DACP-3M
Edgecore	ET7402-100DAC-4M-A	MSA	AN-QSFP28-100GB-DACP-5M
Edgecore	ET7402-100DAC-5M-A	MSA Champion ONE	100GQSFP28E-DA01
Extreme	104005-A	MSA Champion ONE	100GQSFP28E-DA02
Extreme	10411-A	MSA Champion ONE	100GQSFP28E-DA03
Extreme	104115-A	MSA Champion ONE	100GQSFP28E-DA05
Extreme	10412-A	MSA Champion ONE	CAB-QSFP-100G-DACP-1M-C1
Extreme	104125-A	MSA Champion ONE	CAB-QSFP-100G-DACP-3M-C1
Extreme	10413-A	MSA Champion ONE	CAB-QSFP-100G-DACP-5M-C1
Extreme	104144-A	MSA Champion ONE	CAB-QSFP28-DACP-50CM-C1
Extreme	10414-A	MSA Champion ONE	CAB-QSFP28-DACP-50CM-I-C1
Intel	100CQQH3005-A	MSA Champion ONE	CAB-QSFP28-DACP-1M-C1
Intel	100CQQH2615-A	MSA Champion ONE	CAB-QSFP28-DACP-1M-I-C1
Intel	100CQQH2625-A	MSA Champion ONE	CAB-QSFP28-DACP-2M-C1
Intel	100CQQH2640-A	MSA Champion ONE	CAB-QSFP28-DACP-2M-I-C1
Intel	100CQQH3010-A	MSA Champion ONE	CAB-QSFP-100G-DACP-2M-C1
Intel	100CQQH2620-A	MSA Champion ONE	CAB-QSFP28-DACP-3M-C1
Intel	100CQQH2630-A	MSA Champion ONE	CAB-QSFP28-DACP-3M-I-C1
Intel	100CQQH2650-A	MSA Champion ONE	CAB-QSFP28-DACP-5M-I-C1
Juniper	JNP-100G-DAC-50CM-A	MSA Champion ONE	CAB-QSFP-100G-DACP-1.5M-C1
Juniper	JNP-100G-DAC-1.5M-A	NVIDIA	MCP1600-C00AE30N-A
		NVIDIA	MCP1600-C01AE30N-A

5. Contact Information

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