

Features

- Compliant QSFP MSA specifications
- Fully compatible with IEEE802.3ba and Infiniband QDR specifications 40 Gb/s total bandwidth
- 4 independent duplex channels operating at 10Gbps, also support for 2.5Gbps, 5Gbps data rates
- 100 ohm differential impedance system
- Low Near-End Crosstalk (NEXT)
- Operating case temperature: -40 to 85°C
- All-metal housing for superior EMI performance
- Precision process control for minimization of pair-to-pair skew
- AC coupling of PECL signals
- EEPROM for cable signature & system communications
- 30 AWG to 24 AWG cable sizes available
- RoHS compliant

Applications

- Data Servers
- Networked storage systems



- Routers
- External storage systems
- Data Center networking
- Communications
- Switches
- Routers
- Industry Standards
- InfiniBand Trade Association (IBTA)
- IEEE802.3ba
- 40Gigabit Ethernet (40G BASE – CR4)

1. Recommended Operation Conditions

Parameter	Symbol	Min	Max	Unit
Operating Case Temperature	Topc	-40	85	°C
Storage Temperature	Tst	-40	125	°C
Relative Humidity (non-condensation)	RS	-	85	%
Supply Voltage	VCC3	3.135	3.465	V

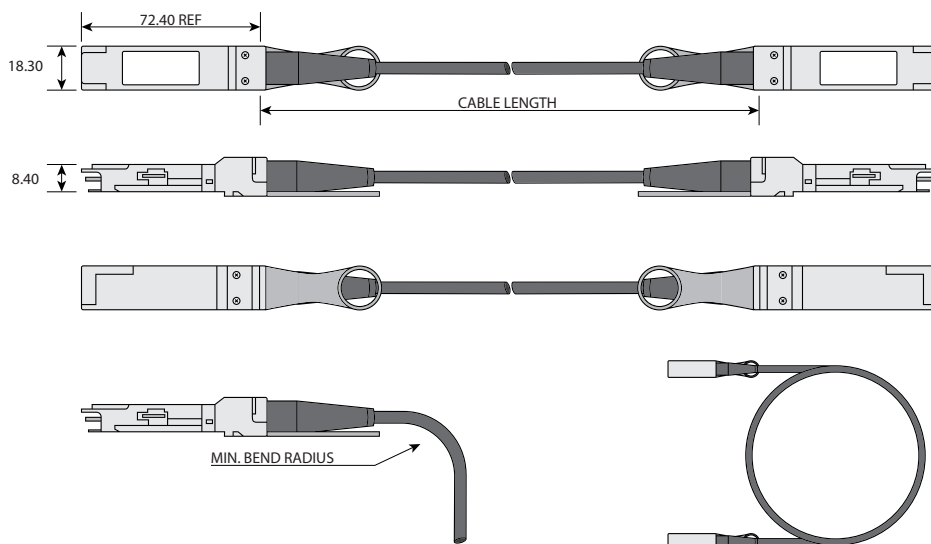
Voltage on LVTTTL Input	Vi lvttl	-0.3	VCC3 +0.2	V
Power Supply Current	ICC3	0.001	-	mA
Total Power Consumption	Pd	-	0.003	W

Note: Stress or conditions exceed the above range may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those listed in the operational sections of this specification is not applied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

2. Mechanical Specifications

Parameter	Minimum	Typical	Maximum	Unit
Cable Diameter (24 AWG)		0.255		Inches
Bend Radius (24 AWG)	1.25			Inches
Cable Diameter (30 AWG)		0.175		Inches
Bend Radius (30 AWG)	0.7			Inches
Within Pair Skew			120	ps/10m
Cable Insertion Loss		10		dB/10m
Bulk Cable Crosstalk			1	%
Bulk Cable Time Delay			4.3	ns/m
Cable Capacitance (intra-pair)			43	pF/m
Bulk Cable Impedance	95	100	105	Ohms

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	603020000-A	Siemon	QSFP30-02.5-A
Amphenol	603020008-A	Siemon	QSFP26-04-A
Amphenol	603020009-A	Siemon	QSFP26-07-A
Amphenol	603020004-A	Juniper	EX-QSFP-40GE-DAC-50CM-C1
Amphenol	603020007-A	Juniper	EX-QSFP-40GE-DAC-5M-C1
Amphenol	603020001-A	Mellanox	MC2206130-00A-A
Amphenol	603020002-A	Mellanox	MC2206130-0015-A
Amphenol	603020003-A	Mellanox	MC2210130-0025-A
Amphenol	603020005-A	Mellanox	MC2206128-004-A
Arista	CAB-Q-Q-1M-A	Mellanox	MC2206125-007-A
Arista	CAB-Q-Q-2M-A	Mellanox	MC2206130-001-A
Arista	CAB-Q-Q-3M-A	Mellanox	MC2210130-002-A
Arista	CAB-Q-Q-5M-A	Mellanox	MC2206130-003-A
Arista	CAB-Q-Q-50CM-A	Mellanox	MC2206128-005-A
Arista	CAB-Q-Q-1.5M-A	Molex	QSFP40G-CU-P-AP-MO-1M-A
Arista	CAB-Q-Q-2.5M-A	Molex	QSFP40G-CU-P-AP-MO-2M-A
Arista	CAB-Q-Q-4M-A	Molex	1110402304-A
Arista	CAB-Q-Q-7M-A	Molex	QSFP40G-CU-P-AP-MO-5M-A
Brocade	40G-QSFP-QSFP-C-0301-C1	Molex	QSFP40G-CU-P-AP-MO-50-1-A
Cisco	QSFP-H40G-CU50CM-A	Molex	QSFP40G-CU-P-AP-MO-15-1-A
Cisco	QSFP-H40G-CU1.5M-A	Molex	QSFP40G-CU-P-AP-MO-25-1-A
Cisco	QSFP-H40G-CU2.5M-A	Molex	QSFP40G-CU-P-AP-MO-4M-1-A
Cisco	QSFP-H40G-CU4M-A	Molex	QSFP40G-CU-P-AP-MO-7M-1-A
Cisco	QSFP-H40G-CU7M-A	Molex	1110401104-A
Cisco	QSFP-H40G-CU1M-A	Molex	1110401204-A
Cisco	QSFP-H40G-CU2M-A	Molex	1110401304-A
Cisco	QSFP-H40G-CU3M-A	Molex	1110401504-A
Cisco	QSFP-H40G-CU5M-A	Molex	QSFP40G-CU-P-AP-MO-50-A
Cisco	QSFP-H40G-CU1M-C1	Molex	QSFP40G-CU-P-AP-MO-15-A
Cisco	QSFP-H40G-CU5M-C1	Molex	QSFP40G-CU-P-AP-MO-25-A
Cisco	QSFP-H40G-CU6M-C1	Molex	QSFP40G-CU-P-AP-MO-4M-A
Cisco/Palo Alto	QSFP40G-CSPA-CU-5M-BL-C-C1	Molex	QSFP40G-CU-P-AP-MO-7M-A
Dell	470-AAVR-A	Molex	QSFP40G-CU-P-AP-MO-1M-1-A
Dell	470-AAIB-A	Molex	QSFP40G-CU-P-AP-MO-2M-1-A
Dell	470-AAWN-A	Molex	1110403304-A
Dell	470-AAWE-A	Molex	QSFP40G-CU-P-AP-MO-5M-1-A

Dell	470-AAXB-A	Molex	1110401054-A
Dell	DF10-QSFP-DAC-1.5M-A	Molex	1110401104-1.5M-A
Dell	DF10-QSFP-DAC-2.5M-A	Molex	1110401204-2.5M-A
Dell	470-AAWN-4M-A	Molex	1110401404-A
Dell	470-AAXI-A	Molex	1110401504-7M-A
HP/Intel	QSFP40G-HPIN-CU-2M-C1	MSA	AN-CAB-QSFP-40G-DACP-50CM
HP/Juniper	QSFP40G-HPJN-CU-1M-C1	MSA	AN-CAB-QSFP-40G-DACP-1.5M
HP/Mellanox	QSFP40G-HPMX-CU-1.5M-C1	MSA	AN-CAB-QSFP-40G-DACP-2.5M
HP/National Instruments	QSFP40G-HPNI-CU-2M-C1	MSA	AN-CAB-QSFP-40G-DACP-4M
Intel	XLDACBL05-A	MSA	AN-CAB-QSFP-40G-DACP-7M
Intel	XLDACBL1.5-A	MSA	AN-CAB-QSFP-40G-DACP-1M
Intel	XLDACBL2.5-A	MSA	AN-CAB-QSFP-40G-DACP-2M
Intel	XLDACBL4-A	MSA	AN-CAB-QSFP-40G-DACP-3M
Intel	XLDACBL7-A	MSA	AN-CAB-QSFP-40G-DACP-5M
Intel	XLDACBL1-A	MSA	CAB-QSFP-40G-DACP-1M-C1
Intel	XLDACBL2-A	MSA Champion ONE	QSFP-H40G-CU1.5M-C1
Intel	XLDACBL3-A	MSA Champion ONE	40GQSFP+E-DA01
Intel	XLDACBL5-A	MSA Champion ONE	QFX-QSFP-DAC-3M-C1
Juniper	QSFP-40GE-DAC-1M-A	MSA Champion ONE	40GQSFP+E-DA03
Juniper	QSFP-40GE-DAC-2M-A	MSA Champion ONE	CAB-QSFP-40G-DACP-3M-C1
Juniper	QSFP-40GE-DAC-3M-A	MSA Champion ONE	QSFP40G-DFDF-CU-50CM-C1
Juniper	QSFP-40GE-DAC-5M-A	MSA Champion ONE	CAB-QSFP-40G-DACP-0.5M-C1
Juniper	QSFP-40GE-DAC-50CM-A	MSA Champion ONE	CAB-QSFP-40G-DACP-5M-C1
Juniper	QSFP-40GE-DAC-1.5M-A	Siemon	QSFP30-01-A
Juniper	QSFP-40GE-DAC-2.5M-A	Siemon	QSFP30-02-A
Juniper	QSFP-40GE-DAC-4M-A	Siemon	QSFP30-03-A
Juniper	QSFP-40GE-DAC-7M-A	Siemon	QSFP26-05-A
Juniper	EX-QSFP-40GE-DAC-1M-C1	Siemon	QSFP30-00.5-A
Juniper	EX-QSFP-40GE-DAC-3M-C1	Siemon	QSFP30-01.5-A

5. Contact Information

Tel: 800.590.9535

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