

Features

- Support Infiniband FDR at 56Gb/s application
- Compliant to QSFP+ Electrical MSA SFF-8436
- Multi rate of up to 14.025Gbps
- +3.3V single power supply
- Low power consumption
- Operating case temp
Commercial : 0°C to +70 °C
- RoHS compliant



Applications

- InfiniBand FDR at 56Gb/s
- Super Computing
- Other optical links

1. Absolute Maximum Ratings

Parameter	Symbol	Min.	Typical	Max.	Unit
Supply Voltage	Vcc3	-0.5	-	+3.6	V
Storage Temperature	s	-5	-	+75	°C
Operating Humidity (No condensation)	RH	+5	-	+85	%

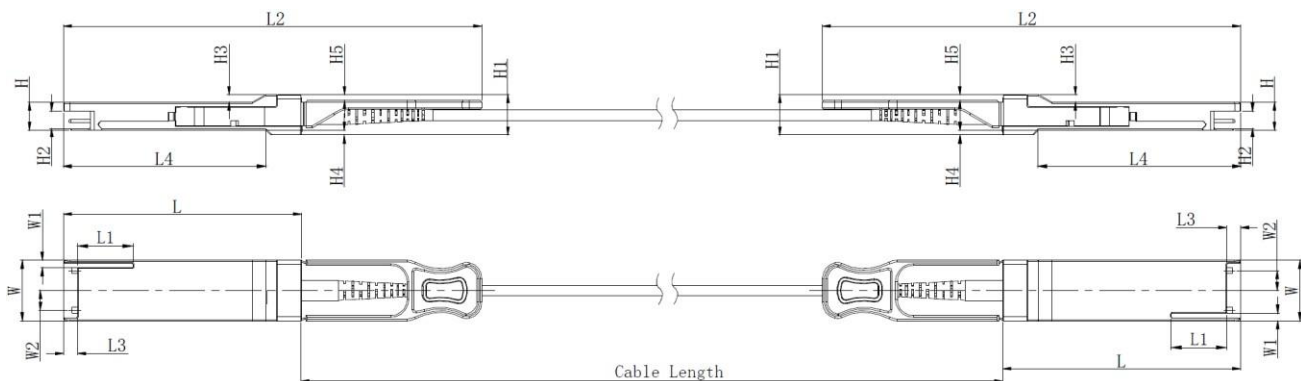
2. Recommended Operating Conditions

Parameter	Symbol	Min.	Typical	Max.	Unit
Operating Case Temperature	TC	0	-	+70	°C
Power Supply Voltage	Vcc	3.14	3.3	3.47	V
Power Dissipation (Per terminal)	Pd	-	-	1.5	W
Bit Rate	BR	1.25	14.025	-	Gbps

3. Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Units	
Transmitter						
Differential Data Input Swing	Vout	200	-	1000	mV	
Input Differential Impedance	ZD	90	100	110	Ω	
ModSelL	Module Select	VOL	VEE-0.3	-	0.4	V
	Module Unselect	VOH	2.0	-	VCC+0.3	V
LPMode	Low Power Mode	VIL	VEE-0.3	-	0.8	V
	Normal Operation	VIH	2.0	-	VCC+0.3	V
ResetL	Reset	VIL	VEE-0.3	-	0.8	V
	Normal Operation	VIH	2.0	-	VCC+0.3	V
Receiver						
Differential Data Output Swing	Vin,P-P	200	-	1000	mVPP	
Output Differential Impedance	ZD	90	100	110	Ω	
Mod PrsL	Normal Operation	VOL	VEE-0.3	-	0.4	V
IntL	Interrupt	VOL	VEE-0.3	-	0.4	V
	Normal Operation	VoH	2.0	-	VCC+0.3	V
Bit Error Rate PRBS2^31-1@14.025Gbps	BER			E- 12		

4. Mechanical Diagram



	L	L1	L2	L3	L4	W	W1	W2	H	H1	H2	H3	H4	H5
Max	72.2	-	128	4.35	61.4	18.45	-	6.2	8.6	12.4	5.35	2.5	1.6	2.0
Type	72.0	-	-	4.20	61.2	18.35	-	-	8.5	12.2	5.2	2.3	1.5	1.8
Min	68.8	16.5	124	4.05	61.0	18.25	2.2	5.8	8.4	12.0	5.05	2.1	1.3	1.6

Unit: mm

Parameter	Value	Units
Diameter	3	mm
Minimum bend radius	30	mm
Length tolerance	Length < 1 m:	+5 / -0
	1 m ≤ length ≤ 4.5 m:	+15 / -0
	5 m ≤ length ≤ 14.5 m:	+30 / -0
	Length ≥ 15.0 m	+2% / -0
Cable color	Orange(OM2), Aqua(OM3), Megenta(OM4)	

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
Mellanox	MC220731V-001-A	MSA	AN-QSFP56G-AOC-1M
Mellanox	MC220731V-002-A	MSA	AN-QSFP56G-AOC-2M
Mellanox	MC220731V-003-A	MSA	AN-QSFP56G-AOC-3M
Mellanox	MC220731V-004-A	MSA	AN-QSFP56G-AOC-4M
Mellanox	MC220731V-005-A	MSA	AN-QSFP56G-AOC-5M
Mellanox	MC220731V-007-A	MSA	AN-QSFP56G-AOC-7M
Mellanox	MC220731V-010-A	MSA	AN-QSFP56G-AOC-10M
Mellanox	MC220731V-012-A	MSA	AN-QSFP56G-AOC-12M
Mellanox	MC220731V-015-A	MSA	AN-QSFP56G-AOC-15M
Mellanox	MC220731V-020-A	MSA	AN-QSFP56G-AOC-20M
Mellanox	MC220731V-025-A	MSA	AN-QSFP56G-AOC-25M
Mellanox	MC220731V-030-A	MSA	AN-QSFP56G-AOC-30M

6. Contact Information

Tel: 800.590.9535

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