



### Features:

- Support 100GBASE-SR4/EDR application
- Compliant to QSFP28 Electrical MSA SFF-8636
- Multi rate of up to 25.78125Gbps per lane
- +3.3V single power supply
- Low power consumption
- UL certification cables (optional)
- Operating case temp Industrial: -40°C to +85 °C
- RoHS compliant

### Applications:

- 100GBASE-SR4 at 25.78125Gbps per lane
- InfiniBand QDR, EDR
- Other optical links

### 1. Absolute Maximum Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit.	Notes
Supply Voltage	Vcc3	-0.5	-	+3.6	V	
Storage Temperature	Ts	-5	-	+75	°C	
Operating Humidity	RH	+5	-	+85	%	1

**Note 1:** No condensation.

### 2. Recommended Operating Conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit.	Notes
Operating Case Temperature	TC	-40	-	+85	°C	
Power Supply Voltage	Vcc	3.14	3.3	3.47	V	
Power Dissipation	Pd	-	-	2.5	W	1
Bit Rate	BR	10.3125	25.78125	-	Gbps	1

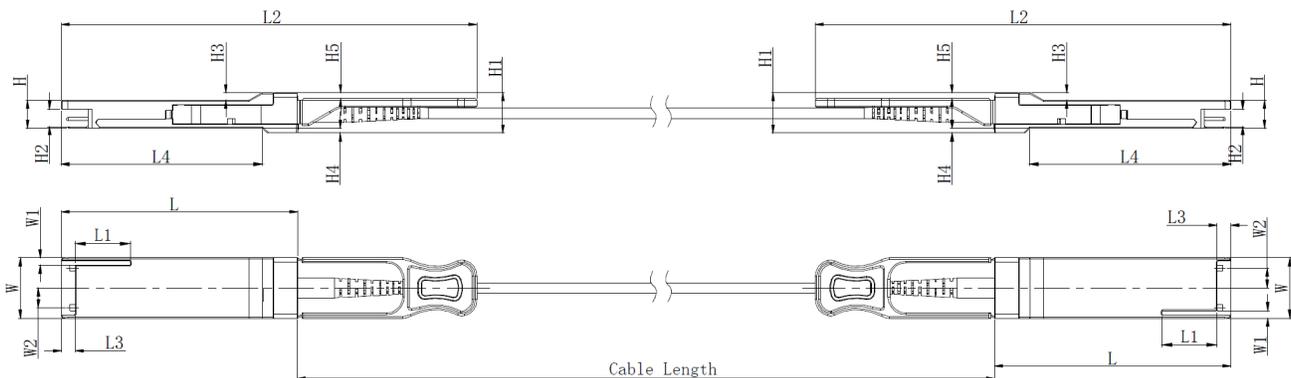
**Note 1:** Per terminal

### 3. Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit.	Notes
<b>Transmitter</b>						
Differential Data Input Swing	Vout	200	-	1000	mV	
Input Differential Impedance	ZD	90	100	110	$\Omega$	
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
<b>Receiver</b>						
Differential Data Output Swing	Vin,P-P	200	-	1000	mVPP	
Output Differential Impedance	ZD	90	100	110	$\Omega$	1
ModPrsL	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	BER			E-12		1

**Note 1:** PRBS2<sup>31</sup>-1@25.78125Gbps, E-12, FEC is ON;

### 4. 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.

### Unit mm

	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

### 5. Cable Length

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

### 6. Ordering Information

OEM	Part Number	OEM	Part Number
Arista	AOC-Q-Q-100G-1M-I-A	Juniper	JNP-100G-AOC-10M-I-A
Arista	AOC-Q-Q-100G-2M-I-A	Juniper	JNP-100G-AOC-12M-I-A
Arista	AOC-Q-Q-100G-3M-I-A	Juniper	JNP-100G-AOC-15M-I-A
Arista	AOC-Q-Q-100G-4M-I-A	Juniper	JNP-100G-AOC-20M-I-A
Arista	AOC-Q-Q-100G-5M-I-A	Juniper	JNP-100G-AOC-40M-I-A
Arista	AOC-Q-Q-100G-7M-I-A	Juniper	JNP-100G-AOC-30M-I-A
Arista	AOC-Q-Q-100G-10M-I-A	Lenovo	4Z57A10844-I-A
Arista	AOC-Q-Q-100G-12M-I-A	Lenovo	4Z57A108442-I-A
Arista	AOC-Q-Q-100G-15M-I-A	Lenovo	7Z57A03546-I-A
Arista	AOC-Q-Q-100G-20M-I-A	Lenovo	7Z57A035464-I-A
Arista	AOC-Q-Q-100G-25M-I-A	Lenovo	7Z57A03547-I-A
Arista	AOC-Q-Q-100G-30M-I-A	Lenovo	7Z57A035477-I-A
Brocade	100G-QSFP-QSFP-AOC-0101-I-A	Lenovo	7Z57A03548-I-A
Brocade	100G-QSFP-QSFP-AOC-0201-I-A	Lenovo	7Z57A0354812-I-A
Brocade	100G-QSFP-QSFP-AOC-0301-I-A	Lenovo	7Z57A03549-I-A
Brocade	100G-QSFP-QSFP-AOC-0401-I-A	Lenovo	7Z57A03550-I-A
Brocade	100G-QSFP-QSFP-AOC-0501-I-A	Lenovo	7Z57A0355025-I-A
Brocade	100G-QSFP-QSFP-AOC-0701-I-A	Lenovo	00MP556-I-A

Brocade	100G-QSFP-QSFP-AOC-1001-I-A	Mellanox/NVIDIA	MFA1A00-C001-I-A
Brocade	100G-QSFP-QSFP-AOC-1201-I-A	Mellanox/NVIDIA	MFA1A00-C002-I-A
Brocade	100G-QSFP-QSFP-AOC-1501-I-A	Mellanox/NVIDIA	MFA1A00-C003-I-A
Brocade	100G-QSFP-QSFP-AOC-2001-I-A	Mellanox/NVIDIA	MFA1A00-C004-I-A
Brocade	100G-QSFP-QSFP-AOC-2501-I-A	Mellanox/NVIDIA	MFA1A00-C005-I-A
Brocade	100G-QSFP-QSFP-AOC-3001-I-A	Mellanox/NVIDIA	MFA1A00-C007-I-A
Cisco	QSFP-100G-AOC1M-I-A	Mellanox/NVIDIA	MFA1A00-C010-I-A
Cisco	QSFP-100G-AOC2M-I-A	Mellanox/NVIDIA	MFA1A00-C012-I-A
Cisco	QSFP-100G-AOC3M-I-A	Mellanox/NVIDIA	MFA1A00-C015-I-A
Cisco	QSFP-100G-AOC4M-I-A	Mellanox/NVIDIA	MFA1A00-C020-I-A
Cisco	QSFP-100G-AOC5M-I-A	Mellanox/NVIDIA	MFA1A00-C025-I-A
Cisco	QSFP-100G-AOC7M-I-A	Mellanox/NVIDIA	MFA1A00-C030-I-A
Cisco	QSFP-100G-AOC10M-I-A	MSA Generic	CAB-QSFP28-AOC-1M-I-A
Cisco	QSFP-100G-AOC12M-I-A	MSA Generic	CAB-QSFP28-AOC-2M-I-A
Cisco	QSFP-100G-AOC15M-I-A	MSA Generic	CAB-QSFP28-AOC-3M-I-A
Cisco	QSFP-100G-AOC20M-I-A	MSA Generic	CAB-QSFP28-AOC-4M-I-A
Cisco	QSFP-100G-AOC25M-I-A	MSA Generic	CAB-QSFP28-AOC-5M-I-A
Cisco	QSFP-100G-AOC30M-I-A	MSA Generic	CAB-QSFP28-AOC-7M-I-A
Dell	AOC-QSFP-100G-1M-I-A	MSA Generic	CAB-QSFP28-AOC-10M-I-A
Dell	AOC-QSFP-100G-2M-I-A	MSA Generic	CAB-QSFP28-AOC-12M-I-A
Dell	470-ACLU-I-A	MSA Generic	CAB-QSFP28-AOC-15M-I-A
Dell	AOC-QSFP-100G-4M-I-A	MSA Generic	CAB-QSFP28-AOC-20M-I-A
Dell	470-ABYD-I-A	MSA Generic	CAB-QSFP28-AOC-25M-I-A
Dell	470-ABPI-I-A	MSA Generic	CAB-QSFP28-AOC-30M-I-A
Dell	470-ABXX-I-A	MSA OnePort	OP-Q100-AOC-1M-I
Dell	AOC-QSFP-100G-12M-I-A	MSA OnePort	OP-Q100-AOC-2M-I
Dell	470-ABXY-I-A	MSA OnePort	OP-Q100-AOC-3M-I
Dell	470-ABXZ-I-A	MSA OnePort	OP-Q100-AOC-4M-I
Dell	AOC-QSFP-100G-25M-I-A	MSA OnePort	OP-Q100-AOC-5M-I
Dell	AOC-QSFP-100G-30M-I-A	MSA OnePort	OP-Q100-AOC-7M-I
Edgecore	ET7402-100AOC-1M-I-A	MSA OnePort	OP-Q100-AOC-10M-I
Edgecore	ET7402-100AOC-2M-I-A	MSA OnePort	OP-Q100-AOC-12M-I
Edgecore	ET7402-100AOC-3M-I-A	MSA OnePort	OP-Q100-AOC-15M-I
Edgecore	ET7402-100AOC-4M-I-A	MSA OnePort	OP-Q100-AOC-20M-I
Edgecore	ET7402-100AOC-5M-I-A	MSA OnePort	OP-Q100-AOC-25M-I
Edgecore	ET7402-100AOC-7M-I-A	MSA OnePort	OP-Q100-AOC-30M-I
Edgecore	ET7402-100AOC-10M-I-A	Palo Alto	PAN-QSFP28-AOC-1M-I-A

Edgecore	ET7402-100AOC-12M-I-A	Palo Alto	PAN-QSFP28-AOC-2M-I-A
Edgecore	ET7402-100AOC-15M-I-A	Palo Alto	PAN-QSFP28-AOC-3M-I-A
Edgecore	ET7402-100AOC-20M-I-A	Palo Alto	PAN-QSFP28-AOC-4M-I-A
Edgecore	ET7402-100AOC-25M-I-A	Palo Alto	PAN-QSFP28-AOC-5M-I-A
Edgecore	ET7402-100AOC-30M-I-A	Palo Alto	PAN-QSFP28-AOC-7M-I-A
Finisar	FCBN425QE1C01-I-A	Palo Alto	PAN-QSFP28-AOC-10M-I-A
Finisar	FCBN425QE1C02-I-A	Palo Alto	PAN-QSFP28-AOC-12M-I-A
Finisar	FCBN425QE1C03-I-A	Palo Alto	PAN-QSFP28-AOC-15M-I-A
Finisar	FCBN425QE1C04-I-A	Palo Alto	PAN-QSFP28-AOC-20M-I-A
Finisar	FCBN425QE1C05-I-A	Palo Alto	PAN-QSFP28-AOC-25M-I-A
Finisar	FCBN425QE1C07-I-A	Palo Alto	PAN-QSFP28-AOC-30M-I-A
Finisar	FCBN425QE1C10-I-A	Siemon	Q1Q28F-V01.0M13-I-A
Finisar	FCBN425QE1C12-I-A	Siemon	Q1Q28F-V02.0M13-I-A
Finisar	FCBN425QE1C15-I-A	Siemon	Q1Q28F-V03.0M13-I-A
Finisar	FCBN425QE1C20-I-A	Siemon	Q1Q28F-V04.0M13-I-A
Finisar	FCBN425QE1C25-I-A	Siemon	Q1Q28F-V05.0M13-I-A
Finisar	FCBN425QE1C30-I-A	Siemon	Q1Q28F-V07.0M13-I-A
Intel	100FRRL0010-I-A	Siemon	Q1Q28F-V10.0M13-I-A
Intel	100FRRL0020-I-A	Siemon	Q1Q28F-V12.0M13-I-A
Intel	100FRRL0030-I-A	Siemon	Q1Q28F-V15.0M13-I-A
Intel	100FRRL0040-I-A	Siemon	Q1Q28F-V20.0M13-I-A
Intel	100FRRL0050-I-A	Siemon	Q1Q28F-V25.0M13-I-A
Intel	100FRRL0070-I-A	Siemon	Q1Q28F-V30.0M13-I-A
Intel	100FRRL0100-I-A	Supermicro	CBL-QSFP28AOC-1M-I-A
Intel	100FRRL0120-I-A	Supermicro	CBL-QSFP28AOC-2M-I-A
Intel	100FRRL0150-I-A	Supermicro	CBL-QSFP28AOC-3M-I-A
Intel	100FRRL0200-I-A	Supermicro	CBL-QSFP28AOC-4M-I-A
Intel	100FRRL0250-I-A	Supermicro	CBL-QSFP28AOC-5M-I-A
Intel	100FRRL0300-I-A	Supermicro	CBL-QSFP28AOC-7M-I-A
Juniper	JNP-100G-AOC-1M-I-A	Supermicro	CBL-QSFP28AOC-10M-I-A
Juniper	JNP-100G-AOC-2M-I-A	Supermicro	CBL-QSFP28AOC-12M-I-A
Juniper	JNP-100G-AOC-3M-I-A	Supermicro	CBL-QSFP28AOC-15M-I-A
Juniper	JNP-100G-AOC-4M-I-A	Supermicro	CBL-QSFP28AOC-20M-I-A
Juniper	JNP-100G-AOC-5M-I-A	Supermicro	CBL-QSFP28AOC-25M-I-A
Juniper	JNP-100G-AOC-7M-I-A	Supermicro	CBL-QSFP28AOC-30M-I-A

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