

## Features

- 100GbE to 4x25GbE data rate
- SFF-8402 SFP28 compliant
- SFF-8665 QSFP28 compliant
- Single 3.3V supply voltage
- Hot pluggable
- RoHS compliant
- SFF-8432 compliant
- IEEE P802.3bj compliant



## Applications

- Low EMI radiation Switches, servers and router
- Data Center networks
- Storage area networks
- High performance computing
- Telecommunication and wireless infrastructure
- Medical diagnostics and networking
- Test and measurement equipment

## 1. Recommended Operation Condition

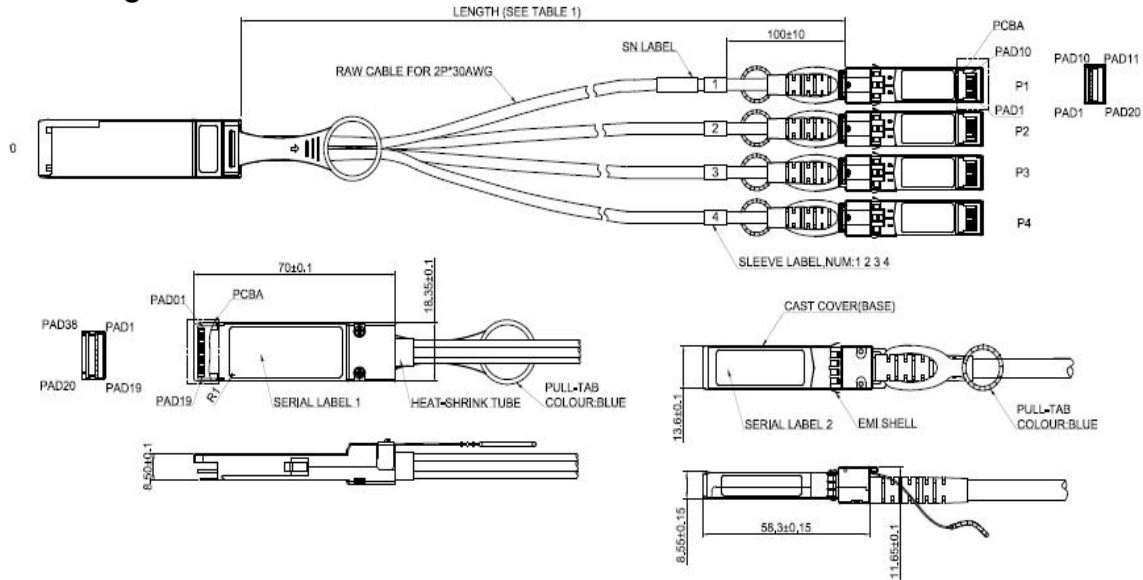
Stress or conditions exceed the above range may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions above those listed in the operational sections of this specification is not applied. Exposure to absolute maximum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

Parameter	Symbol	Min	Max	Unit
Operating Case Temperature	Topc	-20	85	°C
Storage Temperature	Tst	-40	85	°C
Relative Humidity (non-condensation)	RS	35	60	%
Supply Voltage	VCC3	3.35	3.465	V
Voltage on LVTTTL Input	Vilvttl	-0.3	VCC3+0.2	V
Power Supply Current	ICC3		15	mA
Total Power Consumption	Pd	-	0.05	W

## 2. Mechanical Specifications

Parameter	Minimum	Typical	Maximum	Unit
Cable Diameter (26 AWG)		QSFP28: 0.4409 SFP28: 0.2204		
Bend Radius (26 AWG)	QSFP28: 2.204 SFP28: 1.102			
Cable Diameter (28 AWG)		QSFP28: 0.3897 SFP28: 0.195		Inches
Bend Radius (28 AWG)	QSFP28: 1.948 SFP28: 0.9750			Inches
Cable Diameter (30 AWG)		QSFP28: 0.3622 SFP28: 0.181		Inches
Bend Radius (30 AWG)	QSFP28: 1.811 SFP28: 0.905			Inches
Within Pair Skew			60	ps/5m
Cable Insertion Loss		15.34		dB/5m
Bulk Cable Time Delay			5.2	ns/m
Bulk Cable Impedance	95	100	105	Ohms
Insertion Force	/		QSFP28: 40 SFP28: 18	N
Withdrawal Force	/		QSFP28: 30 SFP28: 12.5	N
Retention Force	90		/	N
Durability	QSFP28: 250 Cycles SFP28: 250 Cycles		/	/

### 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	NDAQGF-0001-A	NVIDIA	NA-50CM-MCP7F00-A02AR26N-A
Amphenol	NDAQGF-0002-A	NVIDIA	NA-5M-MCP7F00-A02AR30L-A
Amphenol	NDAQGF-0003-A	Lenovo	7Z57A03564-A
Amphenol	NDAQGF-0004-A	Lenovo	7Z57A03565-A
Amphenol	NDAQGF-0005-A	Lenovo	7Z57A03566-A
Amphenol	NDAQGF-0006-A	Lenovo	NA-1.5M-7Z57A03564-A
Amphenol	NDAQGG-0004-A	Lenovo	NA-2.5M-7Z57A03564-A
Amphenol	NDAQGJ-0005-A	Lenovo	NA-2M-7Z57A03564-A
Arista	CAB-Q-4S-100G-0.5M-A	Lenovo	NA-4M-7Z57A03565-A
Arista	CAB-Q-4S-100G-1.5M-A	Lenovo	NA-50CM-7Z57A03564-A
Arista	CAB-Q-4S-100G-1M-A	Mellanox	MCP7F00-A0.5M-A
Arista	CAB-Q-4S-100G-2.5M-A	Mellanox	MCP7F00-A001-A
Arista	CAB-Q-4S-100G-2M-A	Mellanox	MCP7F00-A002-A
Arista	CAB-Q-4S-100G-3M-A	Mellanox	MCP7F00-A003-A
Arista	CAB-Q-4S-100G-4M-A	Mellanox	MCP7F00-A01A-A
Arista	CAB-Q-4S-100G-5M-A	Mellanox	MCP7F00-A02A-A
Cisco	QSFP-4SFP25G-CU1-5M-A	Mellanox	NA-4M-MCP7F00-A003-A
Cisco	QSFP-4SFP25G-CU1M-A	Mellanox	NA-5M-MCP7F00-A003-A
Cisco	QSFP-4SFP25G-CU2-5M-A	Molex	1003451056-A

Cisco	QSFP-4SFP25G-CU5M-C1	Molex	1003451106-A
Cisco	QSFP-4SFP25G-CU2M-A	Molex	1003451156-A
Cisco	QSFP-4SFP25G-CU3M-A	Molex	1003451206-A
Cisco	QSFP-4SFP25G-CU4M-A	Molex	1003451256-A
Cisco	QSFP-4SFP25G-CU50CM-A	Molex	1003451306-A
Cisco	QSFP-4SFP25G-CU5M-A	Molex	1003453406-A
Dell	470-ABPR-A	Molex	1003453501-A
Dell	470-ABQF-A	MSA	AN-Q100S28-P-1.5M
Dell	470-ABQB -A	MSA	AN-Q100S28-P-1M
Intel	XXV4DACBL1.5M-A	MSA	AN-Q100S28-P-2.5M
Intel	XXV4DACBL1M-A	MSA	AN-Q100S28-P-2M
Intel	XXV4DACBL2.5M-A	MSA	AN-Q100S28-P-3M
Intel	XXV4DACBL2M-A	MSA	AN-Q100S28-P-4M
Intel	XXV4DACBL3M-A	MSA	AN-Q100S28-P-50CM
Intel	XXV4DACBL4M-A	MSA	AN-Q100S28-P-5M
Intel	XXV4DACBL50CM-A	MSA	CAB-QSFP28-4SFP25G-CU1M-C1
Intel	XXV4DACBL5M-A	MSA	CAB-QSFP28-4SFP25G-CU2M-C1
Juniper	JNP-100G-4X25G-1.5M-A	MSA	CAB-QSFP28-4SFP25G-CU3M-C1
Juniper	JNP-100G-4X25G-1M-A	MSA	CAB-QSFP28-4SFP25G-CU5M-C1
Juniper	JNP-100G-4X25G-2.5M-A	MSA / Intel	Q100X25G-MAIN-CU-2M-C1
Juniper	JNP-100G-4X25G-2M-A	NVIDIA	MCP7F00-A001R30N-A
Juniper	JNP-100G-4X25G-3M-A	NVIDIA	MCP7F00-A002R30N-A
Juniper	JNP-100G-4X25G-4M-A	NVIDIA	MCP7F00-A003R26N-A
Juniper	JNP-100G-4X25G-50CM-A	NVIDIA	MCP7F00-A003R30L-A
Juniper	JNP-100G-4X25G-5M-A	NVIDIA	MCP7F00-A005R26L-A
Juniper	JNP-100G-4X25G-1M-C1	NVIDIA	MCP7F00-A01AR30N-A
Juniper	JNP-100G-4X25G-2M-C1	NVIDIA	MCP7F00-A02AR26N-A
Juniper	JNP-100G-4X25G-3M-C1	NVIDIA	MCP7F00-A02AR30L-A
Juniper	JNP-100G-4X25G-5M-C1	NVIDIA	NA-1.5M-MCP7F00-A02AR26N-A
NVIDIA	NA-4M-MCP7F00-A003R26N-A	NVIDIA	NA-1M-MCP7F00-A02AR26N-A
NVIDIA	NA-4M-MCP7F00-A003R30L-A	NVIDIA	NA-2M-MCP7F00-A02AR26N-A
NVIDIA	NA-50CM-MCP7F00-A001R30N-A		

## 5. Contact Information

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