



O400G4Q56-CU-P-xM-NDR-BK-5

400GBase-DAC OSFP Open Finned Top to 4x 100G QSFP56 Breakout, Direct Attach Cable

Features

- Compatible with IEEE 802.3cd
- Supports aggregate data rates of 4X100Gbps(PAM4)
- Passive Twinax 26AWG and 30AWG cable
- 3.3V Power supply
- Temperature Range: 0~ 70 °C
- RoHs Compliant
- OSFP open finned top
- OSFP end supports CMIS 5.0
- QSFP56 end supports SFP8636

Applications

- Switches, servers and routers
- Data Center networks
- Storage area networks
- High performance computing

Industry Standards

- 4x100G Ethernet (IEEE 802.3cd) support up to 3 meters
- InfiniBand (NDR at 400G end and HDR100 at 100G end) support up to 2 meters

OSFP to 4XQSFP56 DAC Specifications

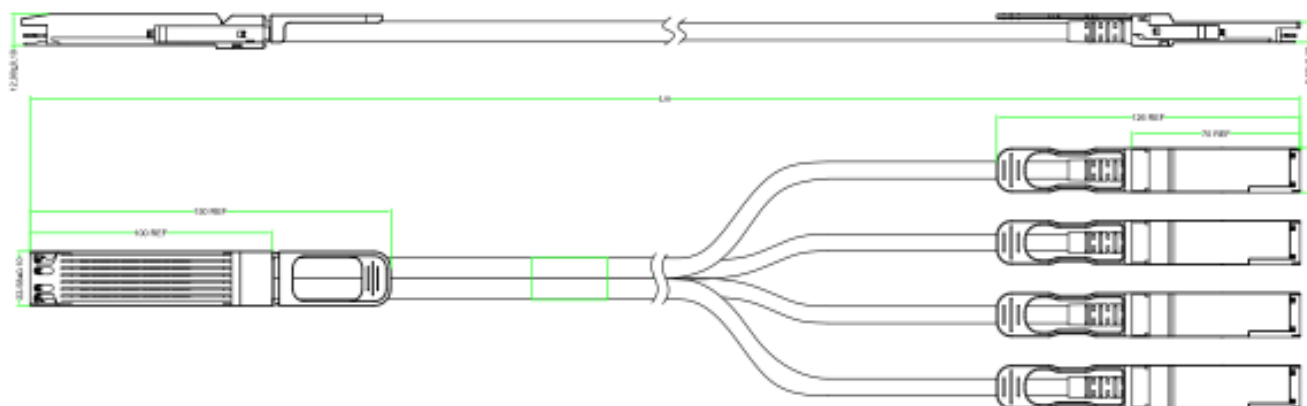
Number of Lanes	Tx8 & Rx8 (400G OSFP) Tx2 & Rx2 (4X100G QSFP56)
Channel Data Rate	53.125Gbps
Operating Temperature	0 to + 70°C
Storage Temperature	-40 to + 85°C
Supply Voltage	3.3 V nominal
Electrical Interface	60pins edge connector 38pins edge connector
Management Interface	Serial, I2C

High Speed Characteristics						
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Notes
Differential Impedance	TDR	90	100	110	Ω	
Insertion Loss	SDD21	-17.16			dB	At 13.28 GHz
Differential Return Loss	SDD11			See 1	dB	At 0.05 to 4.1 GHz
	SDD22			See 2	dB	At 4.1 to 19 GHz
Common-mode to Common-mode	SCC11			-2	dB	At 0.2 to 19 GHz
Output Return Loss	SCC22					
Differential to Common-mode Return Loss	SCD11			See 3	dB	At 0.01 to 12.89 GHz
	SCD22			See 4		At 12.89 to 19 GHz
Differential to Common Mode Conversion Loss	SCD21-IL			-10	dB	At 0.01 to 12.89 GHz
				See 5		At 12.89 to 15.7 GHz
				-6.3		At 15.7 to 19 GHz

Notes:

1. Reflection Coefficient given by equation $SDD11(dB) < -16.5 + 2 \times \text{SQRT}(f)$, with f in GHz
2. Reflection Coefficient given by equation $SDD11(dB) < -10.66 + 14 \times \log_{10}(f/5.5)$, with f in GHz
3. Reflection Coefficient given by equation $SCD11(dB) < -22 + (20/25.78)*f$, with f in GHz
4. Reflection Coefficient given by equation $SCD11(dB) < -15 + (6/25.78)*f$, with f in GHz
5. Reflection Coefficient given by equation $SCD21(dB) < -27 + (29/22)*f$, with f in GHz

Mechanical Diagram



Length (m)	Cable AWG
0.5	30
1	30
1.5	30
2	30
2.5	26
3	26

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.

Regulatory Compliance		
Feature	Test Method	Performance
Electrostatic Discharge (ESD) to the Electrical Pins	MIL-STD-883C Method 3015.7	Class 1 (>2000 Volts)
Electromagnetic Interference(EMI)	FCC Class B	Compliant with Standards
	CENELEC EN55022 Class B	
	CISPR22 ITE Class B	
RF Immunity(RFI)	IEC61000-4-3	Typically Show no Measurable Effect from a 10V/m Field Swept from 80 to 1000MHz
RoHS Compliance	RoHS Directive 2011/65/EU and it's Amendment Directives (EU) 2015/863	RoHS (EU) 2015/863 compliant
REACH Compliance	REACH Regulation (EC) No 1907/2006	REACH (EC) No 1907/2006 compliant

Ordering Information			
OEM	Part Number	OEM	Part Number
Arista	CAB-O-4Q-400G-0.5M-A	Arista	CAB-O-4Q-400G-2M-A
Arista	CAB-O-4Q-400G-1M-A	Arista	CAB-O-4Q-400G-2.5M-A
Arista	CAB-O-4Q-400G-1.5M-A	Arista	CAB-O-4Q-400G-3M-A
MSA	AN-O400G4Q56-CU-P-0.5M-ETH	MSA	AN-O400G4Q56-CU-P-2M-ETH
MSA	AN-O400G4Q56-CU-P-1M-ETH	MSA	AN-O400G4Q56-CU-P-2.5M-ETH
MSA	AN-O400G4Q56-CU-P-1.5M-ETH	MSA	AN-O400G4Q56-CU-P-3M-ETH
Nvidia	MCP7Y70-H00A-A	Nvidia	MCP7Y70-H01A-A
Nvidia	MCP7Y70-H001-A	Nvidia	MCP7Y70-H002-A

To learn more visit

approvednetworks.com

ApprovedNetworks.com

800.590.9535 | sales@approvednetworks.com

©2025 Legrand. All rights reserved. The industry-leading brands of Approved Networks, Ortronics, Raritan, Server Technology, and Starline empower Legrand's Data, Power & Control to produce innovative solutions for data centers, building networks, and facility infrastructures. Our division designs, manufactures, and markets world-class products for a more productive and sustainable future. The exceptional reliability of our technologies results from decades of proven performance and a dedication to research and development. V2330