O800G2O-CU-P-xM-NDR-BK

800GBASE, OSFP FINNED TOP TO 2X 400G OSFP FLAT TOP
PASSIVE TWINAX COPPER BREAKOUT

Features

- Hot Pluggable OSFP form factor with 800G open finned top heat sink and 400G OSFP Flat Top RHS design
- Maximum Aggregate Data Rate: 800Gb/s (8 x 100G/Per Lane)
- Based on 8-channels of 100G-PAM4 modulation
- 26 AWG ~28 AWG support up to 3m length
- SFF-8665 compliant
- OSFP MSA based CMIS 5.2 compliant I2C management interface
- C-Temperature: 0°C to 70°C
- Contains EEPROM & programmable to customized
- DAC supports both InfiniBand and Ethernet
- Passive Twinax copper cable with 0.1 watts per 800G or 400G end

Applications

- Infiniband 2x400Gb/s NDR switch-to-DGX H100
- Ethernet switch-to-NIC
- Data storage and communication industry
- Switch / Router / HBA
- Enterprise network
- Data Center Network

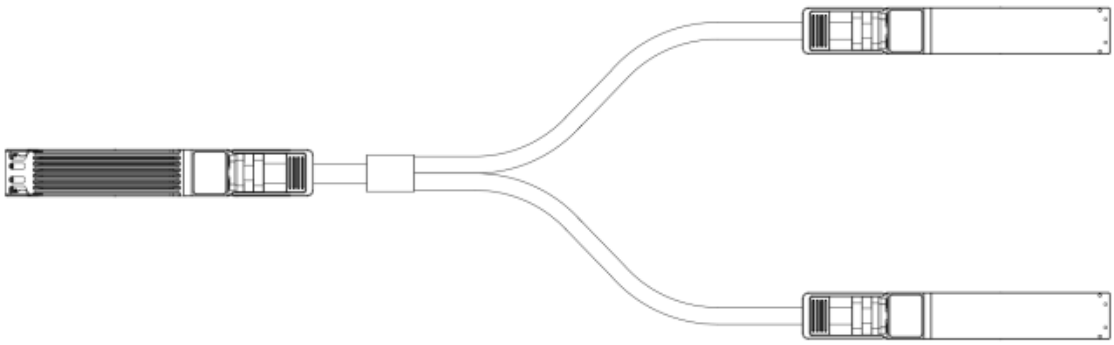
Absolute Maximum Ratings				
Parameter	**Symbol**	**Minimum**	**Maximum**	**Unit**
Storage Temperature	Ts	-20	85	°C
Case Operating Temperature	Tc	0	70	°C
Humidity (non-condensing)	Rh	5	95	%

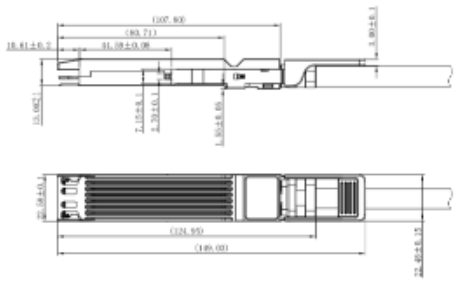
Recommended Operating Conditions					
Parameter	**Symbol**	**Minimum**	**Typical**	**Maximum**	**Unit**
Operating Case Temperature	Tc	0		70	ºC
Baud Rate per Lane (PAM4)	fd		53.125		GBaud/s
Humidity	Rh	5		85	%

Electrical Specifications					
Parameter	**Minimum**	**Typical**	**Maximum**	**Unit**	**Note**
Characteristic impedance	90	100	110	Ω	
Time propagation delay	--	--	4.5	ns/m	Informative Reference

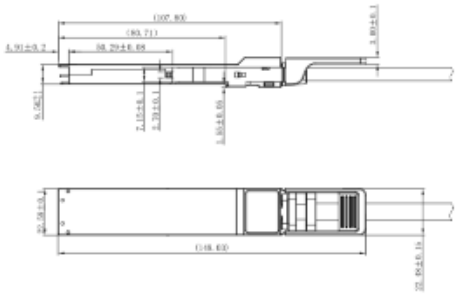
SI Requirements		
Test Items	**Specification**	**Notes**
SDD21 & SDD12	Please reference only, when the length is more than 1.5m) ≤19.75 dB Min. @26.56 GHz; ≥ 11.0 dB max. @26.56GHz;	From 0.01GHz to 26.56GHz
ERL	Minimum cable assembly ERL(*) : ≥ 8.25dB	
SCD12 - SDD12 SCD21 - SDD21	≥ 10 0.05GHz ≤f <12.89GHz ≥ 14-0.3108f 12.89GHz ≤f ≤40GHz	(up to 40GHz)

Mechanical Diagram





Length (m)	Cable AWG
0.5	28
1	28
1.5	28
2	26
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.

Ordering Information			
OEM	**Part Number**	**OEM**	**Part Number**
MSA	AN-O800G2O-P-0.5M	MSA	AN-O800G2O-P-1M
MSA	AN-O800G2O-P-1.5M	MSA	AN-O800G2O-P-2M
MSA	AN-O800G2O-P-2.5M	MSA	AN-O800G2O-P-3M
Nvidia	MCP7Y00-N00A-A	Nvidia	MCP7Y00-N001-A
Nvidia	MCP7Y00-N01A-A	Nvidia	MCP7Y00-N002-A
Nvidia	MCP7Y00-N02A-A	Nvidia	MCP7Y00-N003-A

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