Coptolink

SFP+ DAC series

COL-DAC10X-XXPC

SFP+ Direct Attach Passive Copper Cables ,1m、3m、5m、7m Reach

Features

◆ Support for multi-gigabit data rates up to 10.5Gbps

◆ Data rates backward compatible to 1Gbps

◆ Support for 1x, 2x, 4x and 8x Fibre Channel data rates

◆ Hot-pluggable SFP 20PIN footprint

◆ I/O Connector designed for high speed differential signal applications

◆ Improved Pluggable FormFactor(IPF) compliant for enhanced EMI/EMC performance

◆ Compatible to SFP+ MSA

◆ Temperature Range: 0~ 70 ℃

◆ RoHS Compatible

Applications

◆ High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers

◆ Switched fabric I/O such as ultra high bandwidth switches and routers

◆ Data center cabling infrastructure

◆ High density connections between networking equipment

Product Description

The SFP+ passive cable assemblies are high performance, cost effective I/O solutions for 10G Ethernet and 10G Fiber Channel applications. SFP+ copper modules allow hardware manufactures to achieve high port density, configurability and utilization at a very low cast and reduced power budget. The high speed cable assemblies meet and exceed Gigabit Ethernet and Fiber Channel industry standard requirements for performance and reliability.

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Storage Ambient Temperature		-40		+85	°C
Operating Case Temperature	Tc	0		+70	°C

Systems

Performance	Media
10.5 Gpbs line speed, full duplex	Hot-pluggable, industry-standard Small Form-Factor
Bit error rate: better than 10E-12	Pluggable(SFP+) copper cable, available as 1m,3m or 5m.

Pin Descriptions

Pin	Logic	Symbol	Name/Description	Notes
1		VeeT	Transmitter Ground	
2	LV-TTL-O	TX_Fault	N/A	1
3	LV-TTL-I	TX_DIS	Transmitter Disable	2
4	LV-TTL-I/O	SDA	Tow Wire Serial Data	
5	LV-TTL-I	SCL	Tow Wire Serial Clock	
6		MOD_DEF0	Module present, connect to VeeT	
7	LV-TTL-I	RS0	N/A	1
8	LV-TTL-O	LOS	LOS of Signal	2
9	LV-TTL-I	RS1	N/A	1
10		VeeR	Reciever Ground	
11		VeeR	Reciever Ground	
12	CML-O	RD-	Reciever Data Inverted	
13	CML-O	RD+	Reciever Data Non-Inverted	
14		VeeR	Reciever Ground	
15		VccR	Reciever Supply 3.3V	
16		VccT	Transmitter Supply 3.3V	
17		VeeT	Transmitter Ground	
18	CML-I	TD+	Transmitter Data Non-Inverted	
19	CML_I	TD-	Transmitter Data Inverted	
20		VeeT	Transmitter Ground	

1. Signals not supported in SFP+ Copper pulled-downto VeeT with 30K ohms resistor
2. Passive cable assemblies do not support   LOS and TX_DIS

Ordering information

Part Number	Product Description
COL-DAC10G-01PC	SFP+ DAC Passive 30AWG 1m
COL-DAC10G-02PC	SFP+ DAC Passive 30AWG 2m
COL-DAC10G-03PC	SFP+ DAC Passive 30AWG 3m
COL-DAC10G-04PC	SFP+ DAC Passive 24AWG 3m
COL-DAC10G-05PC	SFP+ DAC Passive 24AWG 5m
COL-DAC10G-07PC	SFP+ DAC Passive 24AWG 7m

Note: You can be customized diameter and distance.
References
1. "Specifications for Enhanced Small Form Factor Pluggable Module SFP+", SFF-8431, Rev 4.1, July 6, 2009.
2. "Improved Pluggable Formfactor",SFF-8432, Rev 4.2,Apr 18,2007
3. IEEE802.3ae – 2002
4. "Diagnostic Monitoring Interface for Optical Transceivers" SFF-8472, Rev 10.3, Dec 1,2007

Important Notice

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