

SFP+ Direct Attach Passive Copper Cables 1m, 3m and 5m reach

Overview

The DAC SFP+ cable assemblies are high-performance, cost effective I/O solutions for 10Gb Ethernet and 10G Fibre Channel applications. SFP+ passive copper modules allow hardware manufacturers to achieve high port density, configurability and utilization at a very low cost and to reduce power budget. The high-speed cable assemblies meet and exceed the performance and reliability requirements stipulated by Gigabit Ethernet and Fibre Channel industry standard.

Features

- Support for multi-gigabit data rates up to 10.5Gbps
- Data rates backward compatible to 1Gbps
- 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 °C
- Comply with RoHS 2.0



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

Recommended Operating Conditions

Parameter	Symbol	Min	Typical	Max	Unit
Storage Ambient Temperature		-40		+85	°C
Operating Case Temperature	T _c	-40		+85	°C

Systems

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

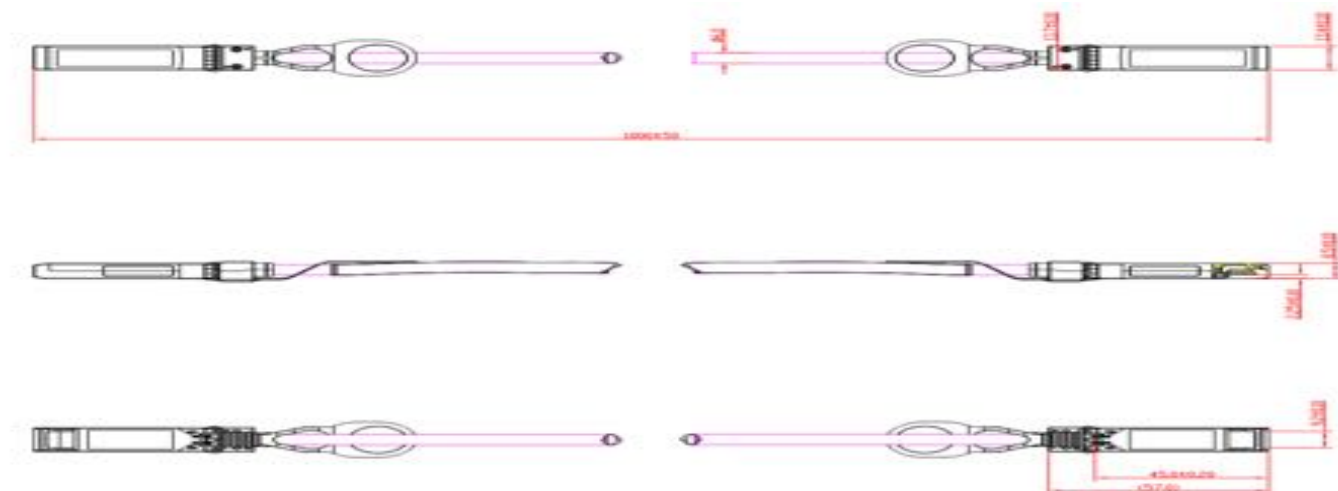
Pin Descriptions

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-down to VeeT with 30K ohms resistor

2. Passive cable assemblies do not support LOS and TX_DIS

Mechanical Dimensions



Ordering information

Part Number	Product Description	Coded
TR0101	SFP+ Direct Attach Passive Cable, 10Gb, CU, 1m, 0°C ~ +70°C	Juniper
TR0201	SFP+ Direct Attach Passive Cable, 10Gb, CU, 1m, 0°C ~ +70°C	Open platform
TR0301	SFP+ Direct Attach Passive Cable, 10Gb, CU, 1m, 0°C ~ +70°C	HP
TR0401	SFP+ Direct Attach Passive Cable, 10Gb, CU, 1m, 0°C ~ +70°C	Cisco
TR0102	SFP+ Direct Attach Passive Cable, 10Gb, CU, 2m, 0°C ~ +70°C	Juniper
TR0202	SFP+ Direct Attach Passive Cable, 10Gb, CU, 2m, 0°C ~ +70°C	Open platform
TR0302	SFP+ Direct Attach Passive Cable, 10Gb, CU, 2m, 0°C ~ +70°C	HP
TR0402	SFP+ Direct Attach Passive Cable, 10Gb, CU, 2m, 0°C ~ +70°C	Cisco
TR0103	SFP+ Direct Attach Passive Cable, 10Gb, CU, 3m, 0°C ~ +70°C	Juniper
TR0203	SFP+ Direct Attach Passive Cable, 10Gb, CU, 3m, 0°C ~ +70°C	Open platform
TR0303	SFP+ Direct Attach Passive Cable, 10Gb, CU, 3m, 0°C ~ +70°C	HP
TR0403	SFP+ Direct Attach Passive Cable, 10Gb, CU, 3m, 0°C ~ +70°C	Cisco
TR0105	SFP+ Direct Attach Passive Cable, 10Gb, CU, 5m, 0°C ~ +70°C	Juniper
TR0205	SFP+ Direct Attach Passive Cable, 10Gb, CU, 5m, 0°C ~ +70°C	Open platform
TR0305	SFP+ Direct Attach Passive Cable, 10Gb, CU, 5m, 0°C ~ +70°C	HP
TR0405	SFP+ Direct Attach Passive Cable, 10Gb, CU, 5m, 0°C ~ +70°C	Cisco

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by company before they become applicable to any particular order or contract. In accordance with company policy of continuous improvement specifications may change without notice. The publication of information in this data sheet does not imply freedom from patent or other protective rights of company or others. Further details are available from any company sales representative.