## Features

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

✧ Data rates backward compatible to 1Gbps

✧ Hot-pluggable SFP 20 PIN footprint

✧ Copper link length up to x (x=0.5~7m)

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

✧ Improved Pluggable Form Factor (IPF) compliant for enhanced EMI/EMC performance

✧ Compatible to SFP+ MSA

✧ Temperature Range: 0～70°C

✧ RoHS compliant

## 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

## Ordering Information

| Part Number | Description | Wiregauge（AWG） |
|---|---|---|
| OP39Tx | SFP+ Passive Direct Attach Copper Cable Assembly, x (x=0.5~7m) | 30 |

## Description

The SFP+ passive cable assemblies are high performance, cost effective I/O solutions for 10G Ethernet and 10G Fibre 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 Fibre Channel industry standard requirements for performance and reliability.

## ● Recommended Operating Environment

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

| Relative Humidity | RH | 0 | | 85 | % |
|---|---|---|---|---|---|

## ● Pin Function Definitions

| PIN # | Name | Function | Notes |
|---|---|---|---|
| 1 | VeeT | Module transmitter ground | Note1 |
| 2 | Tx Fault | Module transmitter fault | Note 2 |
| 3 | Tx Disable | Transmitter Disable; Turns off transmitter laser output | Note 3 |
| 4 | SDL | 2 wire serial interface data input/output (SDA) | |
| 5 | SCL | 2 wire serial interface clock input (SCL) | |
| 6 | MOD-ABS | Module Absent, connect to VeeR or VeeT in the module | Note 2 |
| 7 | RS0 | Rate select0, optionally control SFP+ receiver. When high, input data rate >4.5Gb/ s; when low, input data rate <=4.5Gb/s | |
| 8 | LOS | Receiver Loss of Signal Indication | Note4 |
| 9 | RS1 | Rate select0, optionally control SFP+ transmitter. When high, input data rate >4.5Gb/s; when low, input data rate <=4.5Gb/s | |
| 10 | VeeR | Module receiver ground | Note 1 |
| 11 | VeeR | Module receiver ground | Note 1 |
| 12 | RD- | Receiver inverted data out put | |
| 13 | RD+ | Receiver non-inverted data out put | |
| 14 | VeeR | Module receiver ground | Note 1 |
| 15 | VccR | Module receiver 3.3V supply | |
| 16 | VccT | Module transmitter 3.3V supply | |
| 17 | VeeT | Module transmitter ground | Note 1 |
| 18 | TD+ | Transmitter inverted data out put | |
| 19 | TD- | Transmitter non-inverted data out put | |
| 20 | VeeT | Module transmitter ground | Note1 |

Note 1) The module ground pins shall be isolated from the module case.

Note 2) This pin is an open collector/drain output pin and shall be pulled up with 4.7K-10Kohms to Host_Vcc on the host board.

Note 3) This pin shall be pulled up with 4.7K-10Kohms to VccT in the module.

Note 4) This pin is an open collector/drain output pin and shall be pulled up with 4.7K-10Kohms to Host_Vcc on the host board.

● **Mechanical Dimensions**
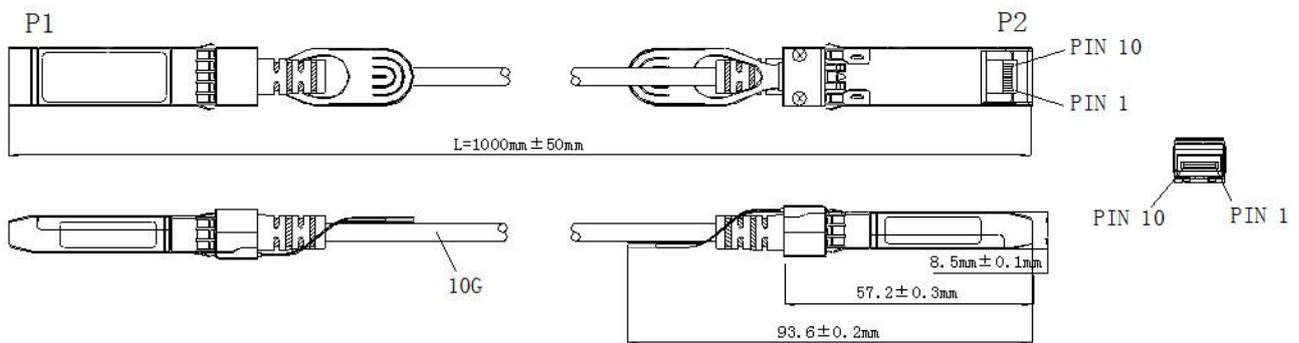


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