

ACEC-SFP49

SFP+ Direct Attach Cables, 10m 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
- Low Power Consumption <
- 0.5W Power Supply :+3.3V
- Compatible to SFP+ MSA
- Temperature Range: 0~ 70
- °C 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+ cable assemblies are high performance, cost effective I/O solutions for 10Gb 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 Conditions

| Parameter | Symbol | Min | Typical | Max | Unit |
|-----------------------------|------------------|------|---------|------|------|
| Storage Ambient Temperature | | -40 | | +85 | °C |
| Operating Case Temperature | T _c | 0 | | +70 | °C |
| Power Supply Voltage | V _{CC3} | 3.14 | 3.3 | 3.47 | V |
| Power Dissipation | PD | | | 0.5 | W |

Systems

| | |
|-----------------------------|--|
| Performance | 10.5 Gpbs line speed, full duplex Bit error rate: better than 10E-12 |
| Media | Hot-pluggable, industry-standard Small Form-Factor Pluggable(SFP+) copper cable, available as 1m,3m, 5m or 10m. |
| Operating parameters | Supply voltage: 3.3V Power consumption(per end): max 0.5W |

Supported Length

10m typical & customer specific requirements

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

