





4L-SFP10SR

SFP+ 10GBASE-SR, 850nm, MM, DDM, LC Duplex, 300m



Applications

- Compliant with IEEE 802.3ae 10GBASE-SR and 10GBASE-SW
- Supports 3.1Gb/s to 10.3Gb/s data rates
- 10G Fibre Channel
- OTN G.709 OTU1e/2/2e FEC bit rates
- Other optical links

Features

- SFP+ 10G Duplex Optical Transceiver
- SFP MSA Compliant
- Up to 300m links on MMF OM3 fiber
- Up to 400m links on MMF OM4 fiber
- VCSEL laser transmitter
- Digital Diagnostic Monitoring
- RoHS and Lead Free
- Operating temperature: 0°C ~ +70°C

Description

The 4L-SFP10xx are a SFP+ transceivers series for duplex optical data communications such as 10GBASE-SR, LR, ER or ZR defined by IEEE 802.3ae.

This modules are designed to operate with multi mode (MMF) or single mode fiber (SMF) and Duplex LC connectors, using the wavelengths 850nm (SR), 1310nm (LR) and 1550nm (ZR) for distances from 0 to 100km depending on the module capacity.



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General Specifications – Absolute Maximum Ratings

| Parameter | Symbol | Min | Recommended | Max | |
|----------------------------|--------|-------|-------------|--------------------------------------|--|
| Max.LinkLength | чтах | | | 300m (OM3 fiber) 400m (OM4 fiber) | |
| Optical Budget | dB | 2dB | | | |
| Storage Temperature | | -40°C | | +85°C | |
| Operating Case Temperature | Тс | 0°C | | +70°C | |
| Supply Voltage | Vcc | -0.5V | 3.3V | 3.6V | |

Optical Specifications

| Transmitter | | | | | |
|----------------------------|--------|-------|-------------|---------|--|
| Parameter | Symbol | Min | Recommended | Max | |
| Average Output Power | Pout | -5dBm | | -1dBm | |
| Central Wavelength | | 840nm | 850nm | 860nm | |
| Receiver | | | | | |
| Parameter | Symbol | Min | Recommended | Max | |
| Receiver Sensitivity | Rsen | -7dBm | | | |
| Receiver Overload (Damage) | Pmax | | | +0.5dBm | |
| Central Wavelength | Nm | 840nm | 850nm | 860nm | |



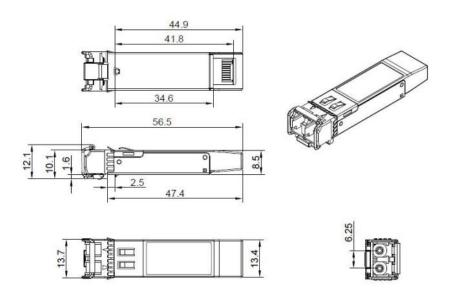
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Electrical Specifications

| Parameter | Symbol | Min. | Typical | Max | Unit | Ref. |
|--------------------------------|--------------------|------|---------|---------------------|------|------|
| Supply Voltage | V _{CC} | 3.00 | | 3.60 | V | 1 |
| Supply Current | l _{cc} | | 200 | 300 | mA | 1 |
| Transmitter | | | | | | |
| Input differential impedance | R _{in} | | 100 | | Ω | 2 |
| Single ended data input swing | V _{in,pp} | 150 | | 1200 | mVpp | |
| Transmit Disable Voltage | V_{D} | 2 | | V _{CC} | V | |
| Transmit Enable Voltage | V _{EN} | Vee | | Vee+0.8 | V | 3 |
| Receiver | | | | | | |
| Output differential impedance | R _{out} | | 100 | | Ω | 2 |
| Single ended data output swing | Vout,pp | 300 | | 700 | mV | 4 |
| LOS Fault | $V_{LOSfault}$ | 2 | | VCC _{HOST} | V | 5 |
| LOS Normal | $V_{LOS\ norm}$ | Vee | | Vee+0.8 | V | 5 |

Mechanical Specifications





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Ordering Information

| Part Number | Description |
|-------------|---|
| 4L-SFP10T | SFP+ 10GBASE-T, RJ45, DDM, 30m |
| 4L-SFP10SR | SFP+ 10GBASE-SR, 850nm, MM, DDM, LC Duplex, 300m |
| 4L-SFP10LR | SFP+ 10GBASE-LR, 1310nm, SM, DDM, LC Duplex, 10Km |
| 4L-SFP10ER | SFP+ 10GBASE-ER, 1550nm, SM, DDM, LC Duplex, 40Km |
| 4L-SFP10ZR | SFP+ 10GBASE-ZR, 1550nm, SM, DDM, LC Duplex, 80Km |
| 4L-SFP10ZRE | SFP+ 10GBASE-ZR, 1550nm, SM, DDM, LC Duplex, 100Km |

Note

This modules have been tested by 4LAN on equipments like Cisco, Juniper, Dell, HP, Mikrotik, Huawei, and other brands. The equipment brand must be informed before shipping the order, so the transceivers are reprogrammed to the corresponding brand.

Contact Information

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