





4L-SFP10ER

SFP+ 10GBASE-ER, 1550nm, SM, DDM, LC Duplex, 40km



Applications

- Compliant with IEEE 802.3ae 10GBASE-ER and 10GBASE-EW
- Supports 3.1Gb/s to 10.3Gb/s data rates
- 4G, 8G and 10G Fibre Channel
- CPRI option 2 through 8
- Other optical links

Features

- SFP+ 10G Duplex Optical Transceiver
- SFP MSA Compliant
- Up to 40km links on SMF
- EML laser transmitter
- Digital Diagnostic Monitoring
- RoHS and Lead Free
- Operating temperature: 0°C ~ +70°C

Description

The 4L-SFB10xx 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				40km
Optical Budget	dB	11dB		
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	-3dBm		+3dBm	
Central Wavelength		1530nm	1550nm	1560nm	
Receiver					
Parameter	Symbol	Min	Recommended	Max	
Receiver Sensitivity	Rsen	-14dBm			
Receiver Overload (Damage)	Pmax			+0.5dBm	
Central Wavelength	Nm	1530nm	1550nm	1560nm	



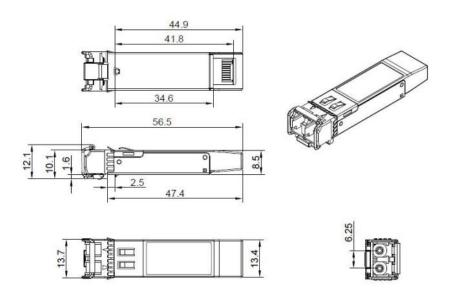
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Electrical Specifications

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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