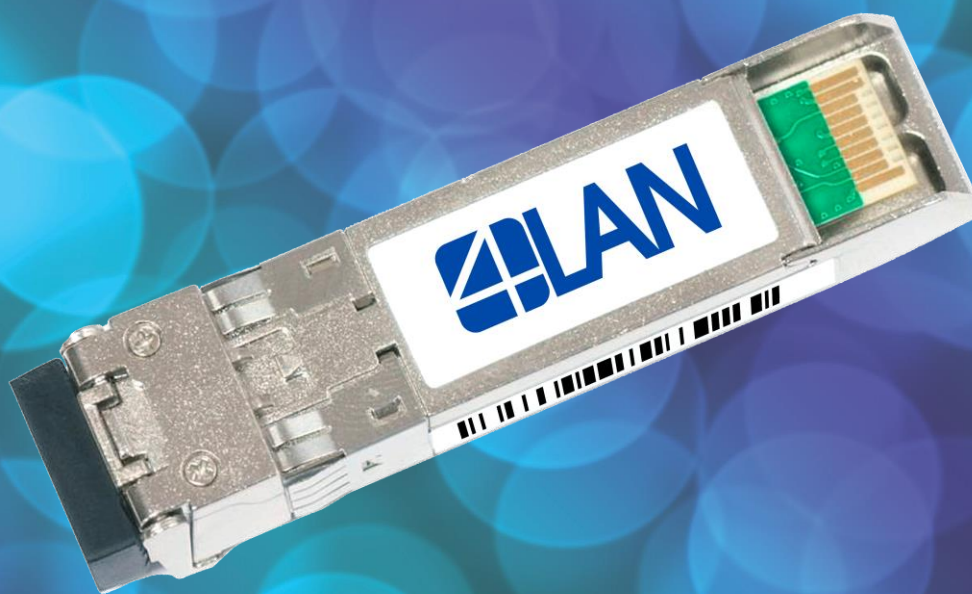


4L-SFP28ER

SFP28 25GBASE-ER, 1310nm, SM, DDM, LC Duplex, 40km



Applications

- Compliant with 25GBASE-ER Ethernet
- Infiniband EDR
- Datacenter backbones
- High-speed servers
- SAN, Routers, Hubs, Load Balancer
- High-performance Computing Clusters
- Other optical links

Features

- SFP28 25G Duplex Optical Transceiver
- SFP28 MSA Compliant
- Up to 40km links on SMF
- DML laser transmitter
- Digital Diagnostic Monitoring
- RoHS and Lead Free
- Operating temperature: 0°C ~ +70°C

Description

The 4L-SFP28ER is a SFP28 transceiver for single mode fiber (SMF) 25GBASE-ER duplex optical data communications.

This modules are designed to operate with single mode (SMF) and Duplex LC connectors, using the wavelengths 1310nm for up to 40km depending on the fiber loss.

Quick access to other products:

[SFP 1G](#) [XFP10G](#) [XFP 10G](#) [QXFP40G](#) [SFP28 25G](#) [QSFP28 100G](#) [DWDM](#)

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General Specifications – Absolute Maximum Ratings

Parameter	Symbol	Min	Recommended	Max
Max.LinkLength	L_{max}			10km
Optical Budget	dB	11dB		
Storage Temperature	T_c	-40°C		+85°C
Operating Case Temperature	T_c	0°C		+70°C
Supply Voltage	V_{cc}	-0.5V	3.3V	3.6V

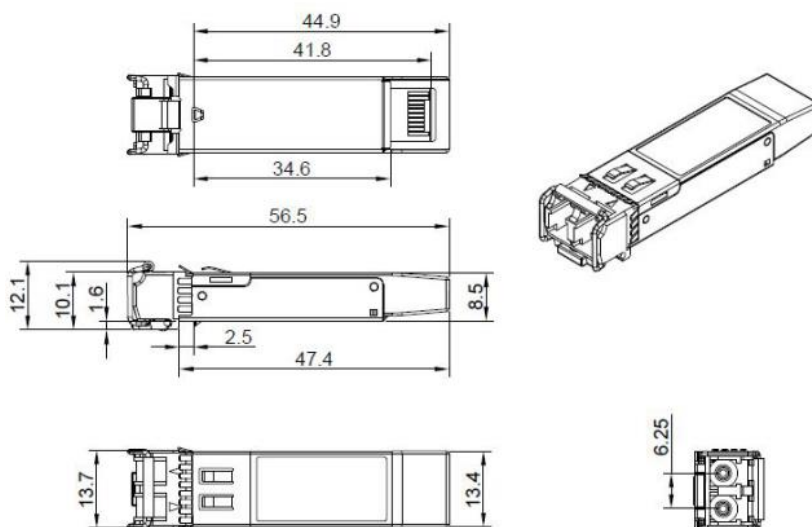
Optical Specifications

Transmitter				
Parameter	Symbol	Min	Recommended	Max
Average Output Power	P_{out}	-6dBm		4.5dBm
Central Wavelength	nm	1260nm	1310nm	1350nm
Receiver				
Parameter	Symbol	Min	Recommended	Max
Receiver Sensitivity	R_{sen}	-17dBm		
Receiver Overload (Damage)	P_{max}			-6dBm
Central Wavelength	Nm	1260	1310	1350

Electrical Specifications

Parameter	Symbol	Min.	Typical	Max	Unit	Ref.
Supply Voltage	V_{CC}	3.00		3.60	V	1
Supply Current	I_{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	$V_{out,pp}$	300		700	mV	4
LOS Fault	$V_{LOS\ fault}$	2		V_{CC_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-SFP28SR	SFP28 25GBASE-SR, 850nm, MM, DDM, LC Duplex, 100m
4L-SFP28LR	SFP28 25GBASE-LR, 1310nm, SM, DDM, LC Duplex, 10Km
4L-SFP28ER	SFP28 25GBASE-ER, 1310nm, SM, DDM, LC Duplex, 40Km

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

Website: www.4-lan.com

Email: contato@brazilmkt.com.br

Telephone: +55 11 5521-2522

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