

SFP CWDM 30 km transceiver | 4G LX Fiber Channel

Datasheet

SFP Optical Transceiver

Product Features

- 4GFC Fibre Channel 13dB SFP
- 30 km LX SFP for SMF @ 4.25Gbps
- 1270nm 1610nm DFB+PIN Laser 30 km SFP
- 0°C 70°C Temperature Extended/Industrial Available
- 2-Wire Interface Digital Diagnostic Monitoring (SFF-8724)
- Hot-swappable for SFP LC ports
- OptoSpan 1 year standard warranty
- Use with Finisar, Avago, JDSU & networks not requiring OEM compatibility
- SFP MSA / IEEE Std 802.3
- RoHS compliant
- * For OEM Compatibility, use Platinum Series Part# PSFP-41DCXXK030

Description

OptoSpan SFP-41D-K030CXX is a CWDM 4GFC Fibre Channel SFP transceiver designed for long distance optical communications up to 30 km with signaling rates up to 4.25Gbps.

OptoSpan 4Gb CWDM optical transceivers are compatible with many brands such as Finisar, Avago, JDSU and network environments that do not require any special compatibility. For networks that require special OEM compatibility, such as CISCO, BROCADE, JUNIPER, ALCATEL, HP, NORTEL, EMC, QLOGIC and other OEMs, consider OptoSpan Platinum OEM Series transceiver model# PSFP-41DCXXK030.

All OptoSpan long-reach SFP s are ROHS compliant, allow for real-time diagnostic monitoring as per SFF-8472 and designed to meet Multi-Source Agreement (MSA) standards for CWDM transceivers with LC interface.

SFP-41D-K030CXX	Distance: 30 km				Fiber: 1270nm - 1610nm	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-5	0	-18	-3		
Optical Calculation Results			-17.7	-12.7	12.7	13

Optical Budget Calculation for 30 km SFP Optical Transceiver

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SFP-41D-K030CXX



Fibre Channel 4x

SONET/SDH

Optical Gigabit Ethernet

• Other Optical Links

Applications

SFP CWDM 30 km transceiver | 4G LX Fiber Channel General Specifications

Parameter	Unit	Min.	Тур.	Мах
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		3.6
Storage Temperature	°C	-40		+85
Case Operating Temperature	°C	0		+70
Recommended Operating Condition				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps		4.25	

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Мах
Transmitter				
Differential Input Voltage Swing	mVpp	400		1600
Input Differential Impedance	ohm	85	100	115
Transmit Disable Voltage - High	V	2		Vcc+0.3
Transmit Disable Voltage - Low	V	0		0.8
Transmit Fault Voltage - High	V	2		Vcc+0.3
Transmit Fault Voltage - Low	V	0		0.8
Receiver				
Differential Output Voltage Swing	mVpp	400		1200
Differential Output Impedance	ohms	85	100	115
LOS Output Voltage - High	V	2		Vcc+0.3
LOS Output Voltage - Low	V	0		0.8



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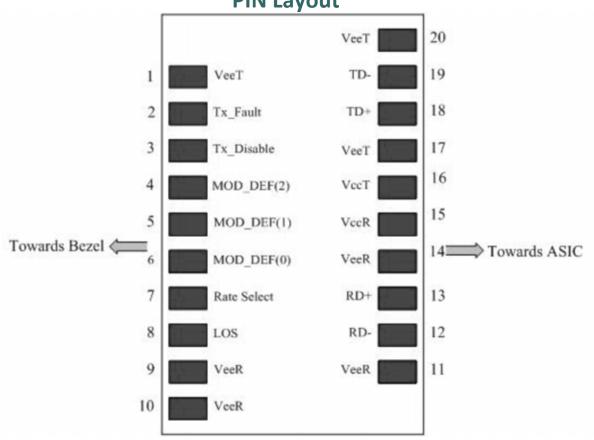
Optical Characteristics

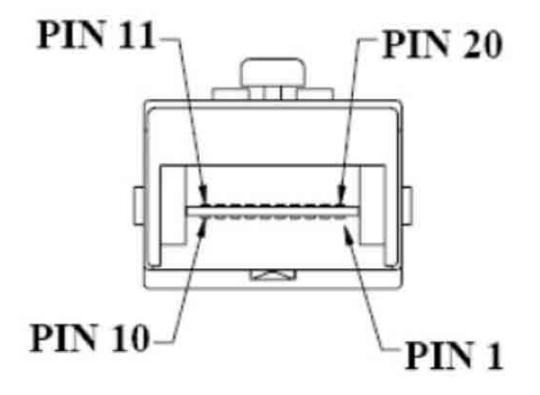
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	-5		0
Optical Extinction Ratio	dB	4.5		
Optical Wavelength	nm	λс-5.5	λс	λc+7.5
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @ 4.25Gbps	dBm	-18		-3
LOS DE-Assert	dBm			-19
LOS Assert	dBm	-35		

Laser Safety

This is a class 1 Laser Product according to IEC 60825-1:1993:+A1:1997+A2:2001. This product complies with 21 CFR 1040.10 and 1040 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001.

SFP CWDM 30 km transceiver | 4G LX Fiber Channel PIN Layout

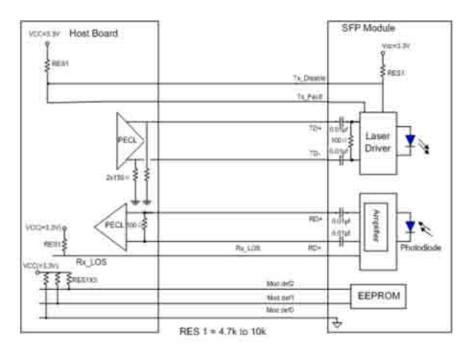


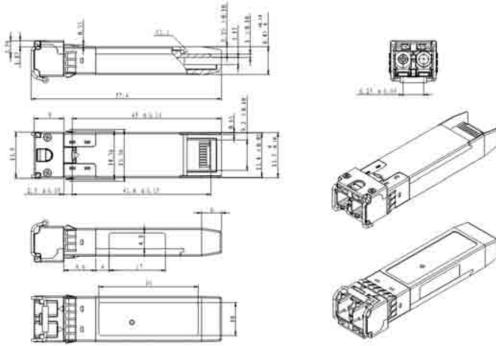


SFP CWDM 30 km transceiver | 4G LX Fiber Channel PIN Functions

Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault Indication
3	Transmitter Disable
4	Module Definition 2
5	Module Definition 1
6	Module Definition 0
7	Not Connected
8	Loss of Signal
9	Receiver ground
10	Receiver ground
11	Receiver ground
12	nv. Received Data Out
13	Received Data Out
14	Receiver ground
15	Receiver Power Supply
16	Transmitter Power Supply
17	Transmitter Ground
18	Transmit Data In
19	Inv. Transmit Data In
20	Transmitter Ground
21	
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SFP CWDM 30 km transceiver | 4G LX Fiber Channel Mechanical Layouts





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