

SFP CWDM 80 km transceiver | Cisco Compatible 4G LX Fiber Channel Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.

#### **Datasheet**

# SFP Optical Transceiver Product Features

- Exclusive Japanese OSAs for Ultimate Reliability
- 4GFC Fibre Channel 24dB SFP
- 80 km LX SFP for SMF @ 4.25Gbps
- 1270nm 1610nm DFB+APD Laser 80 km SFP
- 0°C 70°C Temperature Extended/Industrial Available
- 2-Wire Interface Digital Diagnostic Monitoring (SFF-8724)
- Hot-swappable for SFP LC ports
- Extended 2 Years Warranty
- Tested and Certified in Brand Specific Networks and Target
  Applications
- Assembled Using Highest Quality Raw Components
- SFP MSA / IEEE Std 802.3 & ROHS

#### PSFP-41DCXXK080



**Applications** 

- Optical Gigabit Ethernet
- Fibre Channel 4x
- SONET/SDH
- SONET OC-48
- Other Optical Links

#### **Description**

Platinum OEM Series PSFP-41DCXXK080 is a Cisco Compatible CWDM 4GFC Fibre Channel SFP transceiver designed for long distance optical communications up to 80 km with signaling rates up to 4.25Gbps.

OptoSpan Platinum OEM Series 4.25Gbps CWDM optical transceivers have undergone rigorous qualification and certification testing to provide End-to-End Compatibility using switching equipment from CISCO, BROCADE, JUNIPER, ALCATEL, HP (select models), NORTEL, EMC, QLOGIC and other OEMs.

All OptoSpan Platinum OEM Series 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.

#### Optical Budget Calculation for 80 km Platinum OEM SFP Optical Transceiver

PSFP-41DCXXK080	Distance: 80 km				<b>Fiber:</b> 1270nm - 1610nm	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	0	5	-24	-9		
Optical Calculation Results			-23.8	-18.8	25.8	24



## SFP CWDM 80 km transceiver | Cisco Compatible 4G LX Fiber Channel General Specifications

Parameter	Unit	Min.	Тур.	Max	
Absolute Maximum Ratings					
Maximum Supply Voltage	V	-0.5		3.6	
Storage Temperature	oC	-40		+85	
Case Operating Temperature	oC	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.	Max
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



#### SFP CWDM 80 km transceiver | Cisco Compatible 4G LX Fiber Channel

### **Optical Characteristics**

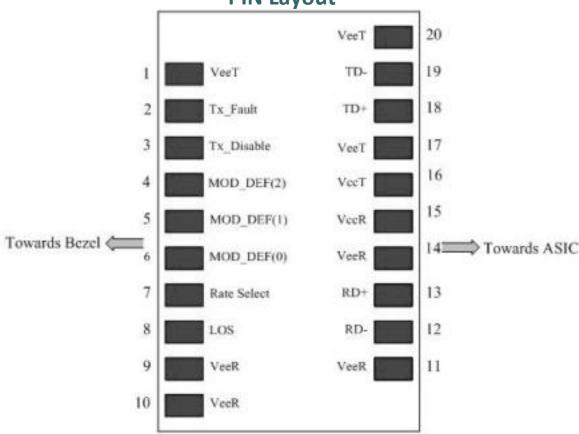
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	0		5
Optical Extinction Ratio	dB	4.5		
Optical Wavelength	nm	λс-5.5	λς	λc+7.5
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @ 4.25Gbps	dBm	-24		-9
LOS DE-Assert	dBm			-25
LOS Assert	dBm	-35		

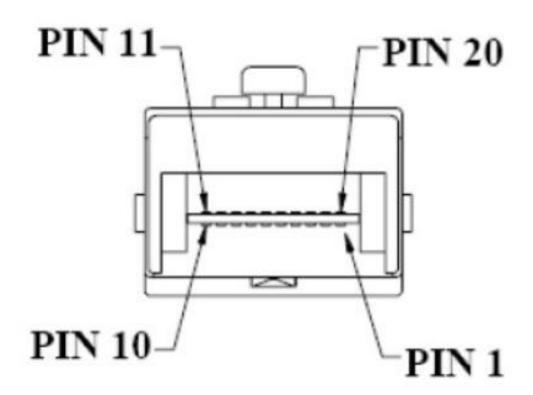
#### **Laser Safety**

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 80 km transceiver | Cisco Compatible 4G LX Fiber Channel PIN Layout





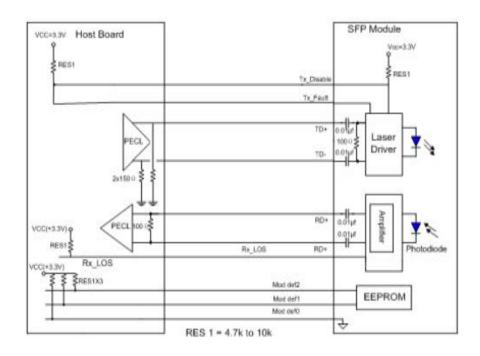


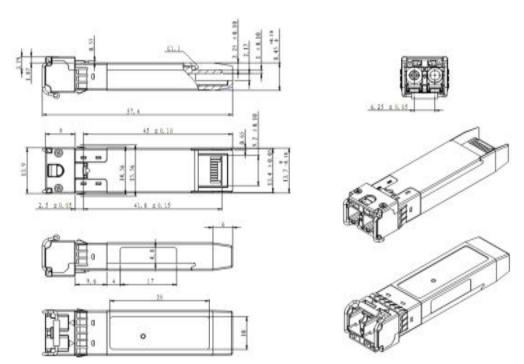
## SFP CWDM 80 km transceiver | Cisco Compatible 4G LX Fiber Channel PIN Functions

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 Connect
8	Loss of Signal
9	Receiver Ground
10	Receiver Ground
11	Receiver Ground
12	Inv. Received Data Out
13	Received Data Out
14	Receiver Ground
15	Receiver Power
16	Transmitter Power
17	Transmitter Ground
18	Transmit Data In
19	Inv. Transmit Data In
20	Transmitter Ground
21	
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## SFP CWDM 80 km transceiver | Cisco Compatible 4G LX Fiber Channel Mechanical Layouts





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