

SFP+ CWDM 80 km transceiver | Cisco Compatible 10G ZR Ethernet Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.

Datasheet

SFP+ Optical Transceiver Product Features

- Exclusive Japanese OSAs for Ultimate Reliability
- 10GBASE-ZR/ZW Ethernet 23dB SFP+
- 80 km ZR SFP+ for SMF @ 10Gbps
- 1470nm 1610nm EML+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
- Compliant with SFF-8431, SFF-8432 & ROHS

PSPP-81DCXXK080



• 10GBASE-ZR @ 10.31Gbps • 10 Gigabit Ethernet

- Fibre Channel 8x
- TIBLE CHAINICI OX
- Fibre Channel 4x

Applications

Description

Platinum OEM Series PSPP-81DCXXK080 is a Cisco Compatible CWDM 10GBASE-ZR/ZW Ethernet 10G Ethernet / 8G FC SFP+ transceiver designed for long distance optical communications up to 80 km with signaling rates up to 10Gbps.

OptoSpan Platinum OEM Series 10Gbps 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

PSPP-81DCXXK080	Distance: 80 km				Fiber: 1470nm - 1610nm	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	0	4	-23	-8		
Optical Calculation Results			-22.8	-18.8	22.8	23



SFP+ CWDM 80 km transceiver | Cisco Compatible 10G ZR Ethernet General Specifications

Parameter	Unit	Min.	Тур.	Max
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		4.0
Storage Temperature	°C	-40		85
Case Operating Temperature	°C	0		70
Recommended Operating Condition				
Supply Voltage	V	3.13	3.3	3.45
Supply Current	mA			455
Data Rate	Gbps			10.3

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max
	Transmitt	er		
Differential Input Voltage Swing	m∨pp	180		1000
Input Differential Impedance	ohm	85	100	115
Transmit Disable Voltage - High	V	2.0		Vcc+0.3
Transmit Disable Voltage - Low	V	0		0.8
Transmit Fault Voltage - High	V	2.0		Vcc+0.3
Transmit Fault Voltage - Low	V	0		0.8
Receiver				
Differential Output Voltage Swing	m∨pp	350		700
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 10G ZR Ethernet

Optical Characteristics

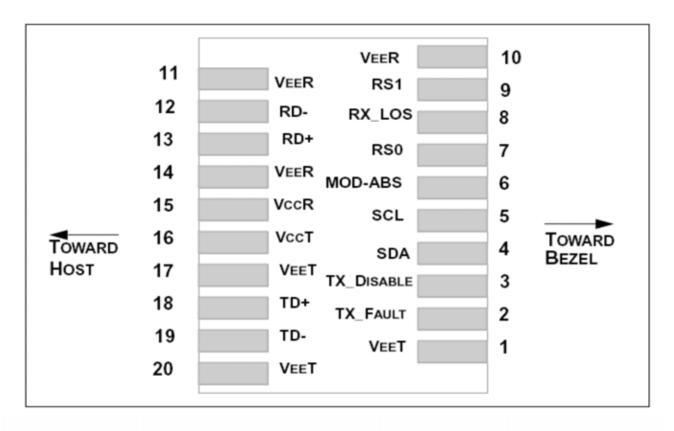
Parameter	Unit	Min.	Тур.	Max	
	Transmitter				
Output Optical Power	dBm	0		4	
Optical Extinction Ratio	dB	3.5			
Optical Wavelength	nm	□λc-6	λς	λc-7.5	
Spectral Width	nm			1	
Side Mode Suppression Ratio	dB	30			
Receiver					
Optical Center Wavelength	nm	1260		1620	
Receiver Sensitivity @ 10Gbps	dBm	-23		-8	
LOS DE-Assert	dBm			-24	
LOS Assert	dBm	-37			

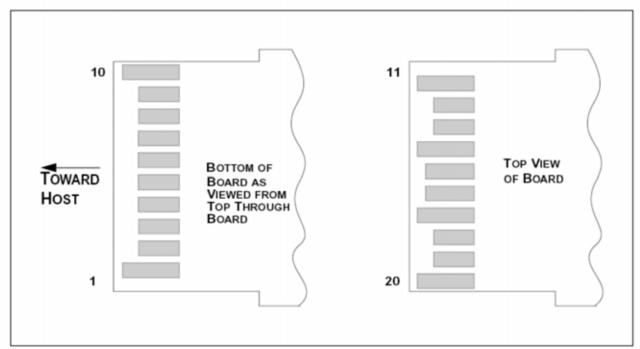
Laser Safety

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 10G ZR Ethernet PIN Layout





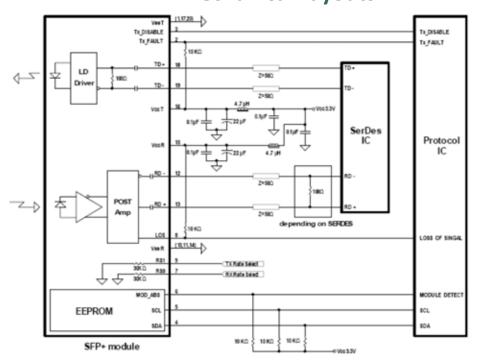


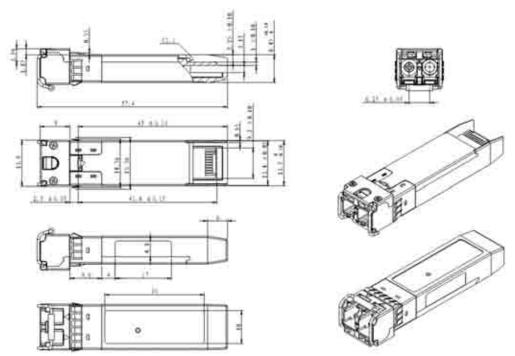
SFP+ CWDM 80 km transceiver | Cisco Compatible 10G ZR Ethernet PIN Functions

Pin#	Name - Description
1	Transmitter Ground
2	Transmitter Fault
3	Transmitter Disable. Laser output disabled on high or open
4	2-wire Serial Interface Data Line
5	2-wire Serial Interface Clock Line
6	Module Absent. Grounded within the module
7	Rate Select 0
8	Loss of Signal indication. Logic 0 indicates normal operation
9	Rate Select 1
10	Receiver Ground
11	Receiver Ground
12	Receiver Inverted DATA out. AC Coupled
13	Receiver DATA out. AC Coupled
14	Receiver Ground
15	Receiver Power Supply
16	Transmitter Power Supply
17	Transmitter Ground
18	Transmitter DATA in. AC Coupled
19	Transmitter Inverted DATA in. AC Coupled
20	Transmitter Ground
21	
22	
23	
24	
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29	
30	



SFP+ CWDM 80 km transceiver | Cisco Compatible 10G ZR Ethernet Mechanical Layouts





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