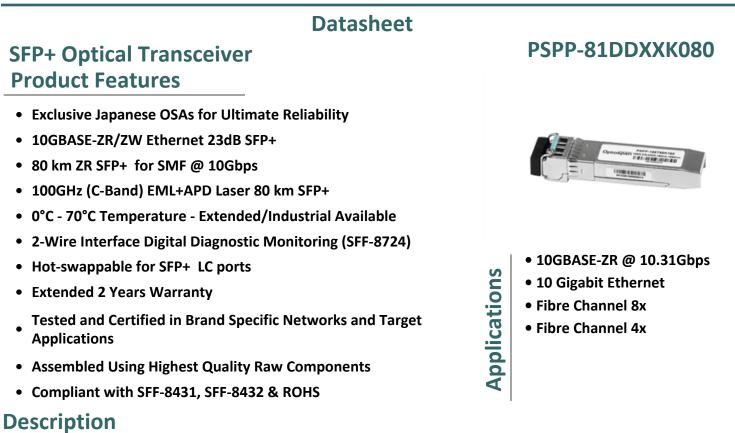
Platinum OEM Series

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



Platinum OEM Series PSPP-81DDXXK080 is a Cisco Compatible DWDM 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 DWDM 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 DWDM transceivers with LC interface.

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

PSPP-81DDXXK080	Distance: 80 km				Fiber: 100GHz (C-Band)	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	0	5	-23	-6		
Optical Calculation Results		•	-22.8	-17.8	22.8	23

Platinum OEM Series

SFP+ DWDM 80 km transceiver | Cisco Compatible 10G ZR Ethernet 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	430
Data Rate	Gbps			10.3

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max
Transmitter				
Differential Input Voltage Swing	mVpp	250		1000
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		0.5
Receiver				
Differential Output Voltage Swing	mVpp	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+ DWDM 80 km transceiver | Cisco Compatible 10G ZR Ethernet

Optical Characteristics

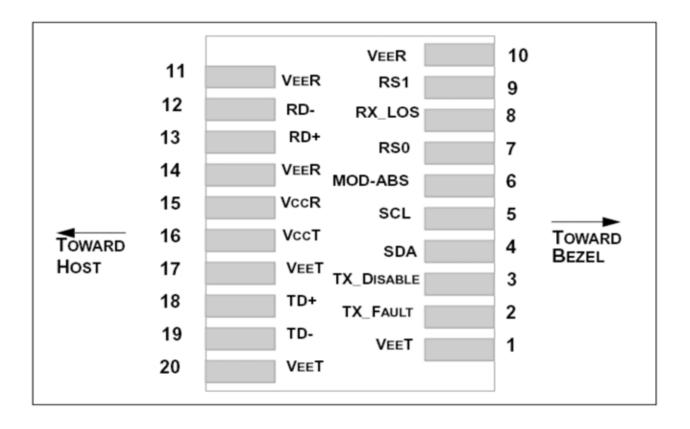
Parameter	Unit	Min.	Тур.	Мах	
	Transmitter				
Output Optical Power	dBm	0		5	
Optical Extinction Ratio	dB	3.5			
Optical Wavelength	nm				
Spectral Width	nm				
Side Mode Suppression Ratio	dB	30			
	Receive	r			
Optical Center Wavelength	nm				
Receiver Sensitivity @ 10.31	dBm	-23		-6	
LOS DE-Assert	dBm			-24	
LOS Assert	dBm	-40			

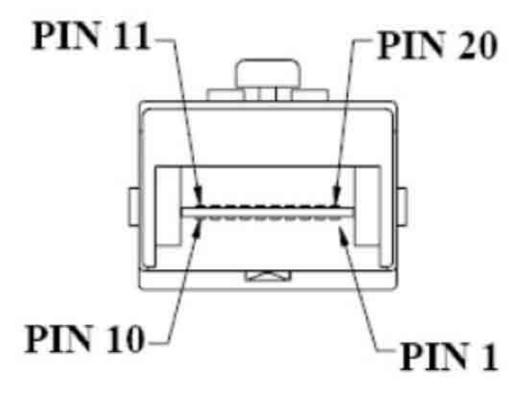
Laser Safety

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.

Platinum OEM Series

SFP+ DWDM 80 km transceiver | Cisco Compatible 10G ZR Ethernet PIN Layout





Platinum OEM Series

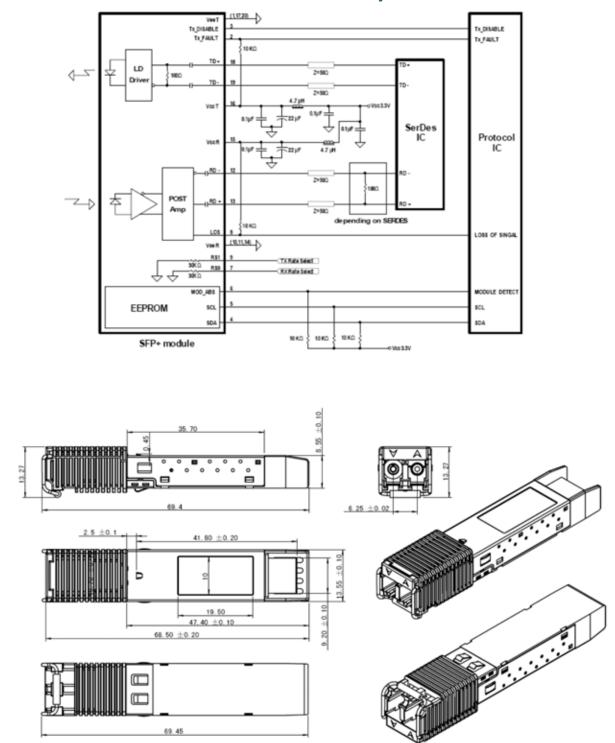
SFP+ DWDM 80 km transceiver | Cisco Compatible 10G ZR Ethernet PIN Functions

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	RX Rate Select (LVTTL)
8	Loss of Signal
9	TX Rate Select (LVTTL)
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	
22	
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Platinum OEM Series

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

Optospan



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