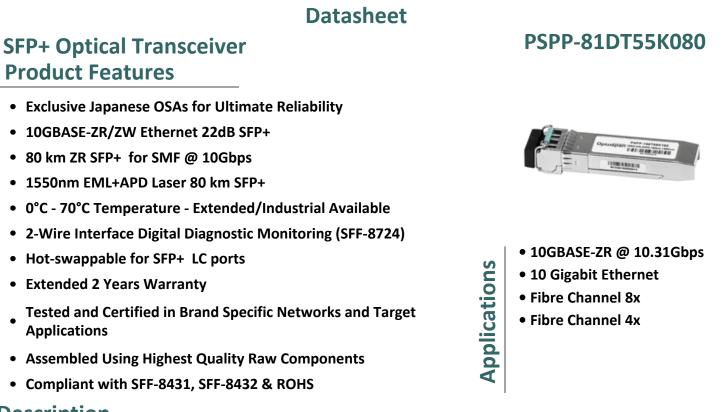
# **Platinum OEM Series**

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



### Description

Platinum OEM Series PSPP-81DT55K080 is a Cisco Compatible Duplex 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 Duplex 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 Duplex transceivers with LC interface.

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

PSPP-81DT55K080	Distance: 80 km				Fiber: 1550nm SMF	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-1	+5	-23	-8		
<b>Optical Calculation Results</b>			-21.8	-16.8	21.8	22

## **Platinum OEM Series**

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

General Speemeations				
Parameter	Unit	Min.	Тур.	Max
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			455
Data Rate	Gbps			10.3

### **Electrical Characteristics**

Parameter	Unit	Min.	Тур.	Мах
Transmitter				
Differential Input Voltage Swing	mVpp	150		1200
Input Differential Impedance	ohm	85	100	115
Transmit Disable Voltage - High	V	2.0		Vcc3+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+ 80 km transceiver | Cisco Compatible 10G ZR Ethernet

## **Optical Characteristics**

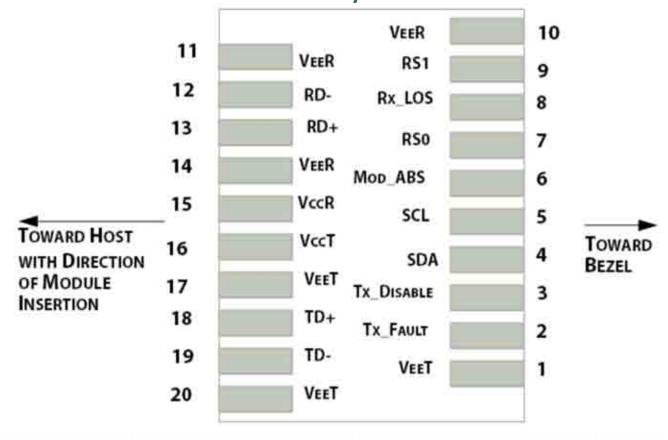
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	-1		+5
Optical Extinction Ratio	dB	3.5		
Optical Wavelength	nm	1528	1550	1565
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @ 10.31Gbp	dBm	-23		-8
LOS DE-Assert	dBm			-24
LOS Assert	dBm	-36		

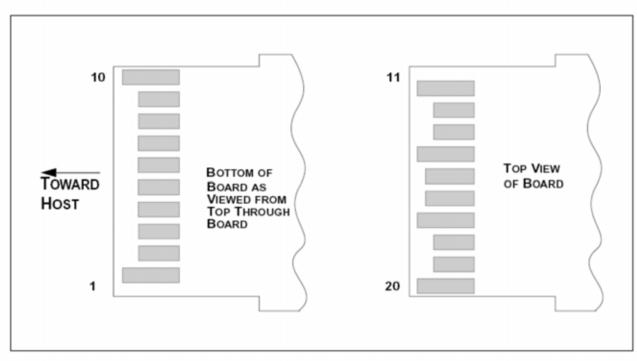
### **Laser Safety**

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





## **Platinum OEM Series**

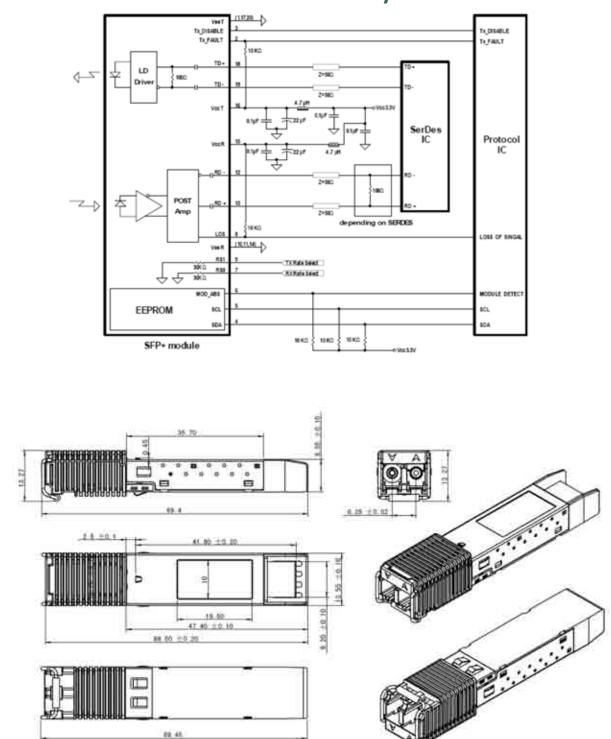
#### SFP+ 80 km transceiver | Cisco Compatible 10G ZR Ethernet PIN Functions

Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault
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	Receiver Data Out
14	Receiver Ground
15	Receiver Power
16	Transmitter Power
17	Transmitter Ground
18	Transmitter Data In
19	Inv. Transmit Data In
20	Transmitter Ground
21	
22	
23	
24	
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30	

## **Platinum OEM Series**

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

**Opto**span



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