

SFP+ SONET/SDH DWDM 80 km transceiver | Cisco Compatible 10G ZR SONET OC-192 / STM-64 Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.

Datasheet

SONET/SDH SFP+ Optical Transceiver Product Features

- Exclusive Japanese OSAs for Ultimate Reliability
- SONET OC-192 / STM-64 w/ CDR 23dB SONET/SDH SFP+
- 80 km ZR SONET/SDH SFP+ for SMF @ 10Gbps
- 100GHz (C-Band) EML+APD Laser 80 km SONET/SDH SFP+
- 0°C 70°C Temperature Extended/Industrial Available
- 2-Wire Interface Digital Diagnostic Monitoring (SFF-8724)
- Hot-swappable for SONET/SDH 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

PSPS-81DDXXK080



• SONET OC-192 / SDH STM-64

- OTN ITU-T G.709
- 10GBASE-ZR @ 10.31Gbps
- 10GbE & 10Gb/s FC w/FEC

Applications

Description

Platinum OEM Series PSPS-81DDXXK080 is a Cisco Compatible DWDM SONET OC-192 / STM-64 w/ CDR SONET/SDH SFP+ with CDR, FEC & OTN G.709 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 SONET/SDH 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 SONET/SDH SFP+ Optical Transceiver

PSPS-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



SFP+ SONET/SDH DWDM 80 km transceiver | Cisco Compatible 10G ZR SONET OC-192 / STM-64 General Specifications

Parameter	Unit	Min.	Тур.	Max
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		3.6
Storage Temperature	°C	-40		85
Case Operating Temperature	•С	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
	Transmitt	er		
Differential Input Voltage Swing	m∨pp	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	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



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Optical Characteristics

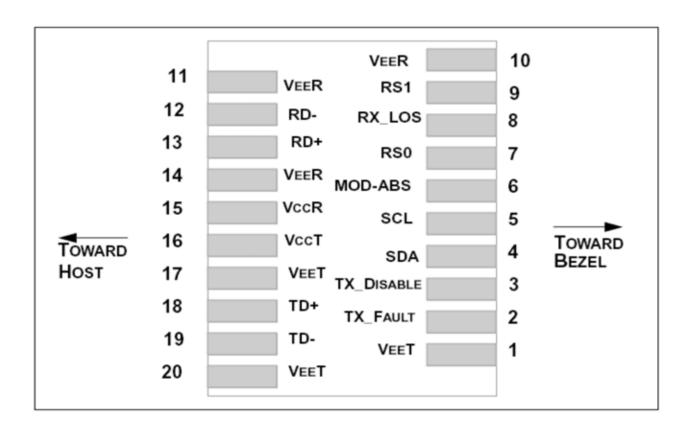
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	0		5
Optical Extinction Ratio	dB	3.5		
Optical Wavelength	nm			
Spectral Width	nm			
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm			
Receiver Sensitivity @	dBm	-23		-6
LOS DE-Assert	dBm			-24
LOS Assert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

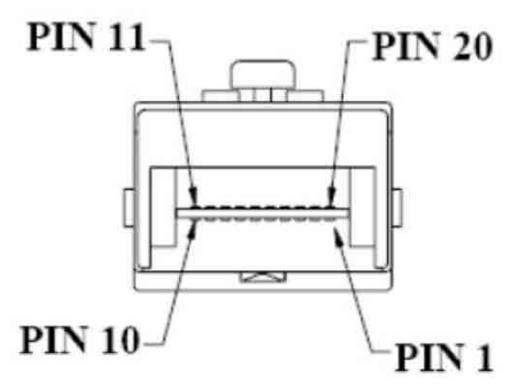
Laser Safety

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.



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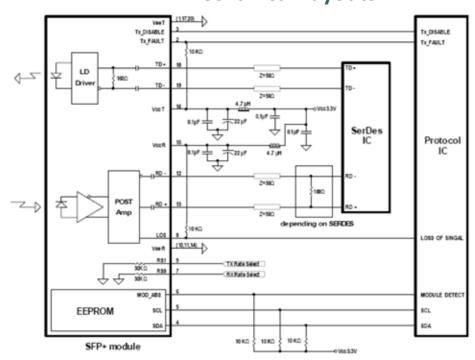


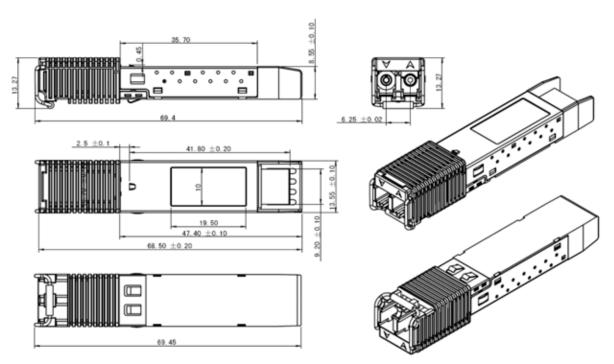
SFP+ SONET/SDH DWDM 80 km transceiver | Cisco Compatible 10G ZR SONET OC-192 / STM-64 PIN Functions

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	
23	
24	
25	
26	
27	
28	
29	
30	



SFP+ SONET/SDH DWDM 80 km transceiver | Cisco Compatible 10G ZR SONET OC-192 / STM-64 Mechanical Layouts





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