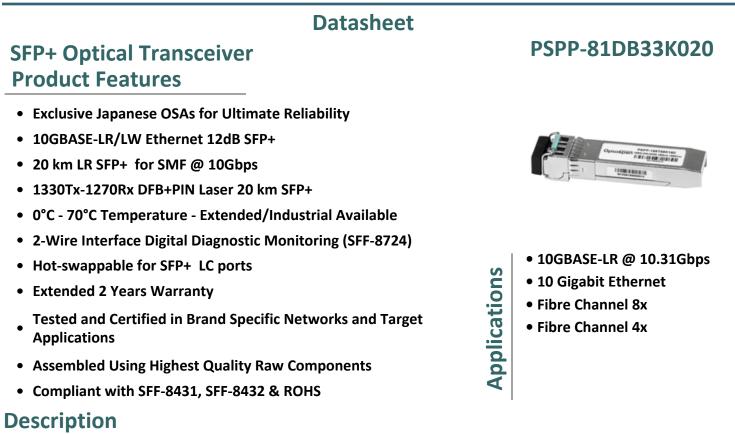
Optospan

Platinum OEM Series

SFP+ Single Fiber 20 km transceiver | Cisco Compatible 10G LR Ethernet Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.



Platinum OEM Series PSPP-81DB33K020 is a Cisco Compatible Single Fiber BiDirectional 10GBASE-LR/LW Ethernet 10G Ethernet transceiver designed for long distance optical communications up to 20 km with signaling rates up to 10Gbps.

OptoSpan Platinum OEM Series 10Gbps Single Fiber BiDirectional (BiDi) 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 Single Fiber BiDirectional (BiDi) transceivers with LC interface.

PSPP-81DB33K020	Distance: 20 km				Fiber: 1330Tx-1270 R x	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-2	3	-14	0.5		
Optical Calculation Results			-12	-7	10	12

Optical Budget Calculation for 20 km Platinum OEM SFP+ Optical Transceiver

Optospan

Platinum OEM Series

SFP+ Single Fiber 20 km transceiver | Cisco Compatible 10G LR Ethernet General Specifications

Ocheral 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	°C	0		+70
Recommended Operating Condition				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			430
Data Rate	Gbps		9.95/10.31	

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max
Transmitter				
Differential Input Voltage Swing	mVpp	150		1200
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+ Single Fiber 20 km transceiver | Cisco Compatible 10G LR Ethernet

Optical Characteristics

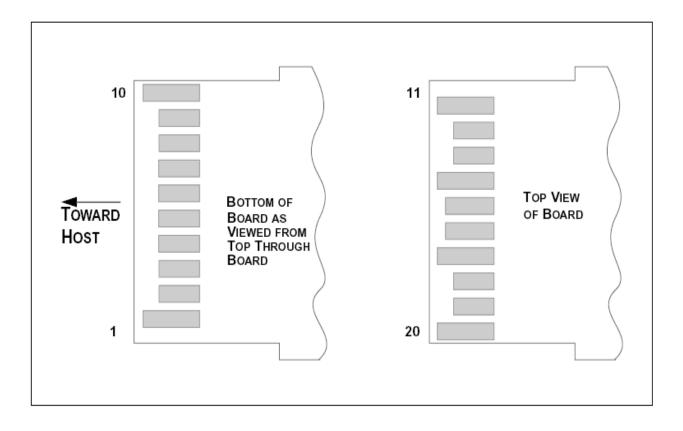
Parameter	Unit	Min.	Тур.	Мах
Transmitter				
Output Optical Power	dBm	-2		3
Optical Extinction Ratio	dB	3.5		
Optical Wavelength	nm	1320	1330	1340
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
	Receive	r		
Optical Center Wavelength	nm	1260		1280
Receiver Sensitivity @ 10.31	dBm	-14		0.5
LOS DE-Assert	dBm			-18
LOS Assert	dBm	-30		

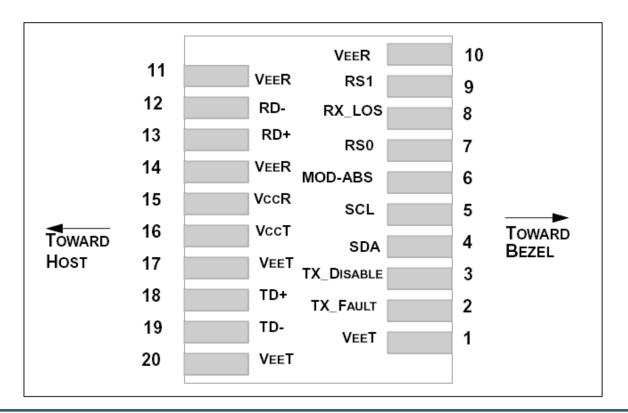
Laser Safety

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+ Single Fiber 20 km transceiver | Cisco Compatible 10G LR Ethernet





Optospan

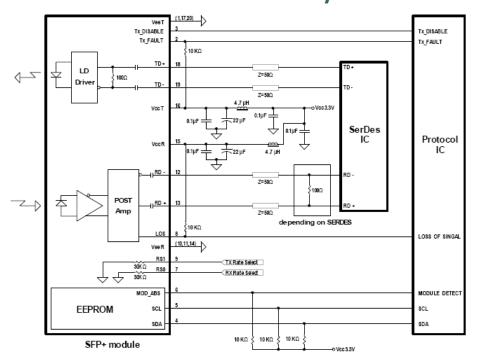
SFP+ Single Fiber 20 km transceiver | Cisco Compatible 10G LR Ethernet PIN Functions

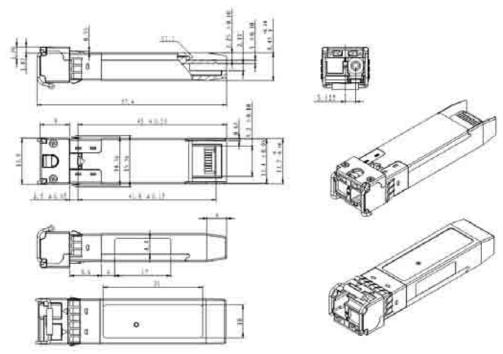
Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault Indication
3	Transmitter Disable
4	Module Definition 2
5	Module Definition 1
6	Module Definition 0
7	RX Rate Select (LVTTL).
8	Loss of Signal
9	TX Rate Select (LVTTL).
10	Receiver Ground
11	Receiver Ground
12	Inv. Received Data Out
13	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	
23	
24	
25	
26	
27	
28	
29	
30	

Platinum OEM Series

Optospan

SFP+ Single Fiber 20 km transceiver | Cisco Compatible 10G LR Ethernet Mechanical Layouts





OptoSpan reserves the right to make changes or to discontinue any optical product or service without any notice. Applications and features described herein are for illustrative purposes only. OptoSpan makes no representation of warranty that such applications or features will be suitable for any specific use or compatibility without further testing or modifications. Not responsible for typographical errors.