Platinum OEM Series

SFP Single Fiber 2 km transceiver | Cisco Compatible 1G BX 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
- 1000BASE-LX/LH Ethernet 8dB SFP
- 2 km BX SFP for SMF @ 1.25Gbps
- 1550Tx 1490Rx FP+PIN Laser 2 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
- SFP MSA / IEEE Std 802.3 & ROHS

Description

Platinum OEM Series PSFP-11DB55K002 is a Cisco Compatible Single Fiber BiDirectional 1000BASE-LX/LH Ethernet SFP transceiver designed for long distance optical communications up to 2 km with signaling rates up to 1.25Gbps.

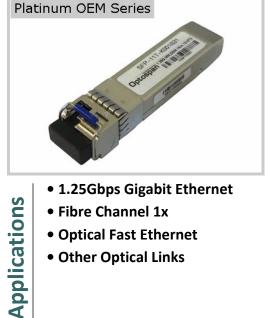
OptoSpan Platinum OEM Series 1.25Gbps Single Fiber BiDirectional (BiDi) optical transceivers have undergone rigorous qualification and certification testing to provide End-to-End Compatibility using switching equipment from CISCO, BROCADE, JUNIPER, ALCATEL, HP (select models), NORTEL, EMC, QLOGIC and 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.

Optical Budget Calculation for 2 km Platinum OEM SFP Optical Transceiver								
	Distance 2 km		Fibor 1550Ty - 1490Py					

PSFP-11DB55K002	Distance: 2 km				Fiber: 1550Tx - 1490Rx	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-14	-10	-22	-3		
Optical Calculation Results			-11.64	-5.64	1.64	8

PSFP-11DB55K002



Platinum OEM Series

SFP Single Fiber 2 km transceiver | Cisco Compatible 1G BX Ethernet General Specifications

General Speemeations						
Parameter	Unit	Min.	Тур.	Max		
Ab	Absolute Maximum Ratings					
Maximum Supply Voltage	V	-0.5		3.6		
Storage Temperature	٥C	-40		+85		
Case Operating Temperature	٥C	0		+70		
Recommended Operating Condition						
Supply Voltage	V	3.15	3.3	3.45		
Supply Current	mA			300		
Data Rate	Gbps		1.25			

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max	
	Transmitt	er			
Differential Input Voltage Swing	mVpp	400		2000	
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	400		2000	
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

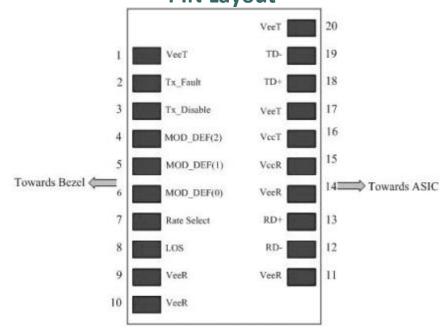
Parameter	Unit	Min.	Тур.	Max	
	Transmitt	er			
Output Optical Power	dBm	-14		-10	
Optical Extinction Ratio	dB	9			
Optical Wavelength	nm	1480	1550	1580	
Spectral Width	nm			4	
Side Mode Suppression Ratio	dB				
Receiver					
Optical Center Wavelength	nm	1260		1600	
Receiver Sensitivity @	dBm	-22		-3	
LOS DE-Assert	dBm			-25	
LOS Assert	dBm	-45			

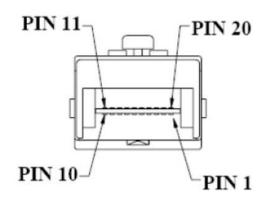
Laser Safety

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 Single Fiber 2 km transceiver | Cisco Compatible 1G BX Ethernet PIN Layout



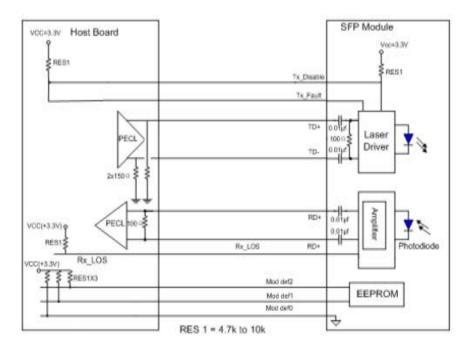


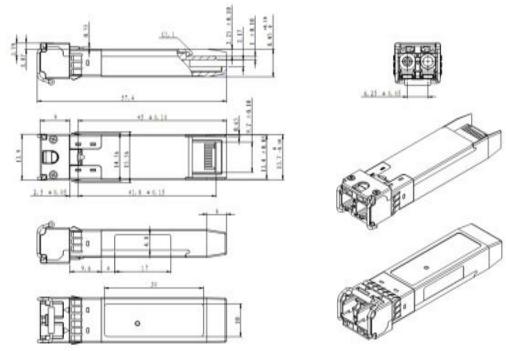
SFP Single Fiber 2 km transceiver | Cisco Compatible 1G BX Ethernet PIN Functions

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	Not Connected
8	Loss of Signal
9	Receiver Ground
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	
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23	
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Platinum OEM Series

SFP Single Fiber 2 km transceiver | Cisco Compatible 1G BX Ethernet Mechanical Layouts





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