Platinum OEM Series

SFP 2 km transceiver | Cisco Compatible 1G LX 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 12dB SFP
- 2 km LX SFP for MMF @ 1.25Gbps
- 1310nm FP Laser 2 km SFP
- -40°C 85°C Temperature Standard/Extended 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-11DT31K002 is a Cisco Compatible Duplex 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 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.

PSFP-11DT31K002	Distance: 2 km				Fiber: 1310nm MMF	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-9	-3	-21	-3		
Optical Calculation Results			-10.9	-4.9	1.9	12

Optical Budget Calculation for 2 km Platinum OEM SFP Optical Transceiver

Applications

PSFP-11DT31K002



- 1.25Gbps Gigabit Ethernet
- Fibre Channel 1x
- Optical Fast Ethernet
- Other Optical Links

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SFP 2 km transceiver | Cisco Compatible 1G LX 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	-40		+85
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
Transmitter				
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

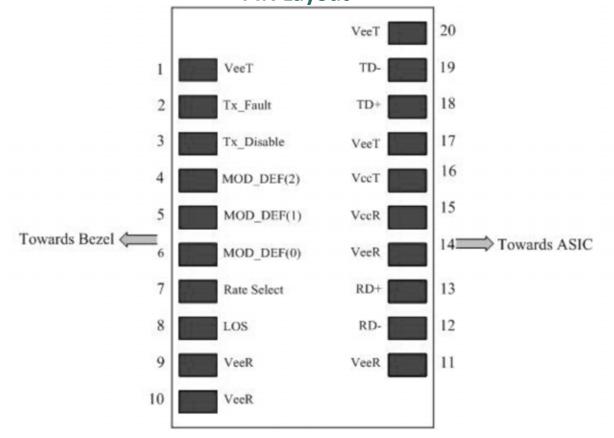
Parameter	Unit	Min.	Тур.	Max	
	Transmitter				
Output Optical Power	dBm	-9		-3	
Optical Extinction Ratio	dB	8.2			
Optical Wavelength	nm	1260	1310	1360	
Spectral Width	nm			5	
Side Mode Suppression Ratio	dB				
Receiver					
Optical Center Wavelength	nm	1260		1600	
Receiver Sensitivity @ 1.25	dBm	-21		-3	
LOS DE-Assert	dBm			-22	
LOS Assert	dBm	-45			

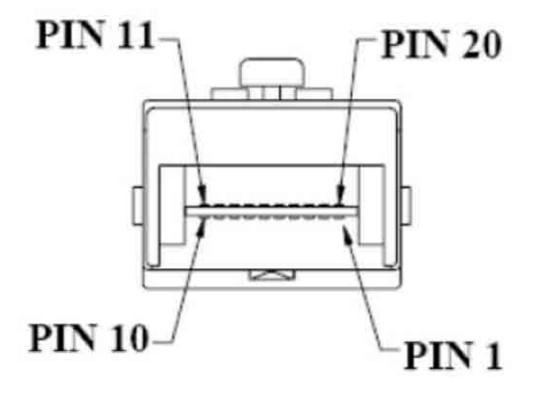
Laser Safety

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 2 km transceiver | Cisco Compatible 1G LX Ethernet PIN Layout







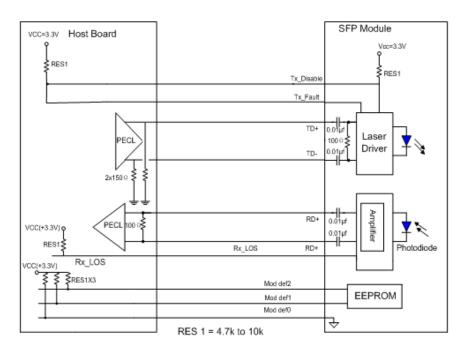
Platinum OEM Series

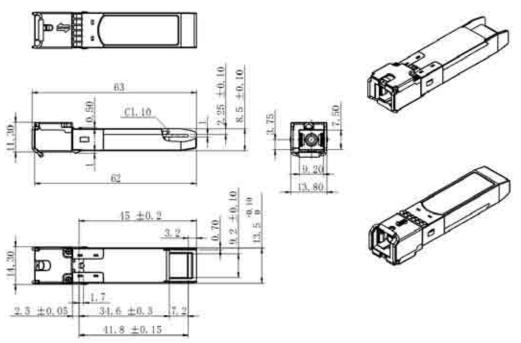
SFP 2 km transceiver | Cisco Compatible 1G LX Ethernet PIN Functions

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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SFP 2 km transceiver | Cisco Compatible 1G LX Ethernet Mechanical Layouts





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