Platinum OEM Series

SFP Single Fiber 40 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 Designed for OEM networks such as Cisco, HP, Juniper, Brocade, Alcatel etc.

Datasheet **PSFP-MR2B31K040 SFP Optical Transceiver Product Features** • Exclusive Japanese OSAs for Ultimate Reliability SONET OC-48 / STM-16 17dB SFP 40 km LX SFP for SMF @ 2.67Gbps 1310Tx-1550Rx DFB+PIN Laser 40 km SFP 0°C - 70°C Temperature - Extended/Industrial Available 2-Wire Interface Digital Diagnostic Monitoring (SFF-8724) • 1.25Gbps Gigabit Ethernet Hot-swappable for SFP LC ports • Applications • Fibre Channel 2x Extended 2 Years Warranty • SONET/SDH Tested and Certified in Brand Specific Networks and Target Router/Server Interface **Applications** • Other Optical Links Assembled Using Highest Quality Raw Components SFP MSA / IEEE Std 802.3 & ROHS Description

Platinum OEM Series PSFP-MR2B31K040 is a Cisco Compatible Single Fiber BiDirectional SONET OC-48 / STM-16 SFP transceiver designed for long distance optical communications up to 40 km with signaling rates up to 2.67Gbps.

OptoSpan Platinum OEM Series 2.67Gbps 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.

PSFP-MR2B31K040	Distance: 40 km				Fiber: 1310Tx-1550 R x	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-3	2	-20	-3		
Optical Calculation Results			-16.5	-11.5	14.5	17

Optical Budget Calculation for 40 km Platinum OEM SFP Optical Transceiver

SFP Single Fiber 40 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 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	0		+70
Recommended Operating Condition				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps		2.5	

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	
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

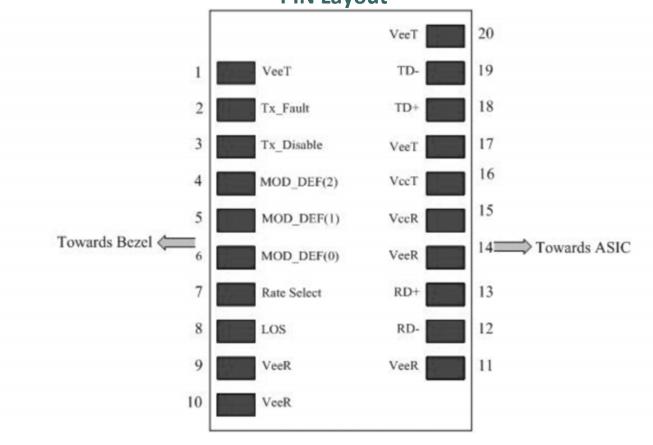
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	-3		2
Optical Extinction Ratio	dB	8.2		
Optical Wavelength	nm	1260	1310	1360
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1500	1550	1580
Receiver Sensitivity @ 1.25Gbps	dBm	-20		-3
LOS DE-Assert	dBm			-21
LOS Assert	dBm	-45		

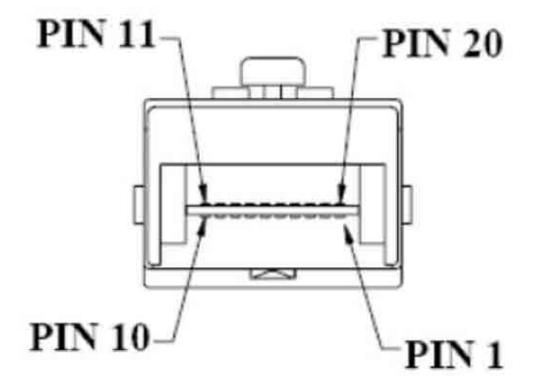
Laser Safety

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 40 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 PIN Layout





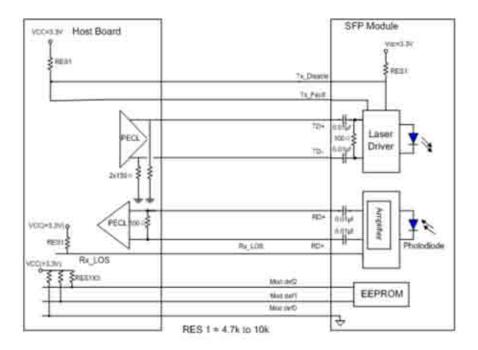
SFP Single Fiber 40 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 PIN Functions

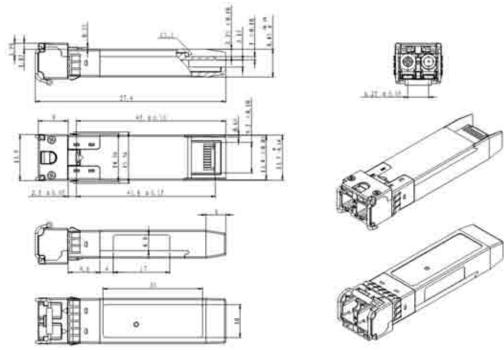
Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault Indication
3	Transmitter Disable
4	Module Definition 2
5	Module Definition 1
6	Module Definition 0
7	Not Connect
8	Loss of Signal
9	Receiver Ground
10	Receiver Ground
11	Receiver Ground
12	Inv. Received Data Out
13	Received Data Out
14	Receiver Ground
15	Receiver Power
16	Transmitter Power
17	Transmitter Ground
18	Transmit Data In
19	Inv. Transmit Data In
20	Transmitter Ground
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Platinum OEM Series



SFP Single Fiber 40 km transceiver | Cisco Compatible 2G LX SONET OC-48 / STM-16 Wechanical Layouts





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