

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

Datasheet

SFP Optical Transceiver Product Features

- Exclusive Japanese OSAs for Ultimate Reliability
- SONET OC-48 / STM-16 25dB SFP
- 40 km Duplex SFP for SMF @ 2.67Gbps Multirate
- 1310nm DFB+PIN Laser 40 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

PSFP-MR2T31K040



Applications

- 1.25Gbps Gigabit Ethernet
- Fibre Channel 2x
- SONET/SDH
- Other Optical Links
- Fibre Channel 1x
- SONET OC-48

Description

Platinum OEM Series PSFP-MR2T31K040 is a Cisco Compatible Duplex 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 Multirate 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.

Optical Budget Calculation for 40 km Platinum OEM SFP Optical Transceiver

PSFP-MR2T31K040	Distance: 40 km				Fiber: 1310nm SMF	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-2	+3	-27	-9		
Optical Calculation Results			-21	-16	19	25



SFP 40 km transceiver | Cisco Compatible 2G SONET OC-48 / STM-16 General Specifications

Parameter	Unit	Min.	Тур.	Max
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		4
Storage Temperature	oC	-40		+85
Case Operating Temperature	oC	0		+70
Recommended Operating Condition				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps		2.67	

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max	
	Transmitt	er			
Differential Input Voltage Swing	mVpp	400		1600	
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		0.8	
Receiver					
Differential Output Voltage Swing	mVpp	400	800	1200	
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

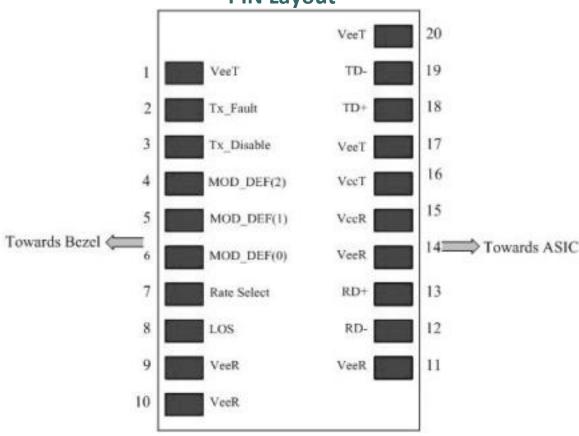
Parameter	Unit	Min.	Тур.	Max	
	Transmitter				
Output Optical Power	dBm	-2		+3	
Optical Extinction Ratio	dB	8.2			
Optical Wavelength	nm	1260	1310	1360	
Spectral Width	nm			1	
Side Mode Suppression Ratio	dB	30			
Receiver					
Optical Center Wavelength	nm	1260		1600	
Receiver Sensitivity @	dBm	-27		-9	
LOS DE-Assert	dBm			-28	
LOS Assert	dBm	-40			

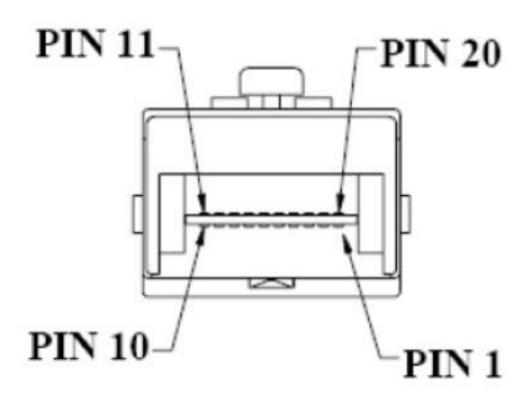
Laser Safety

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.



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





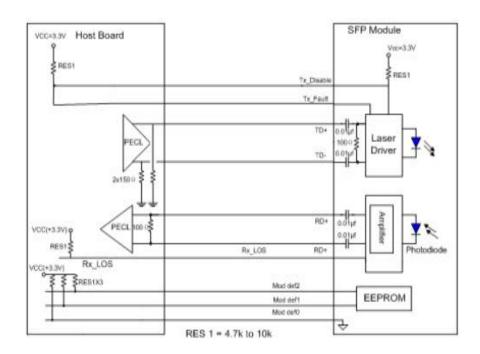


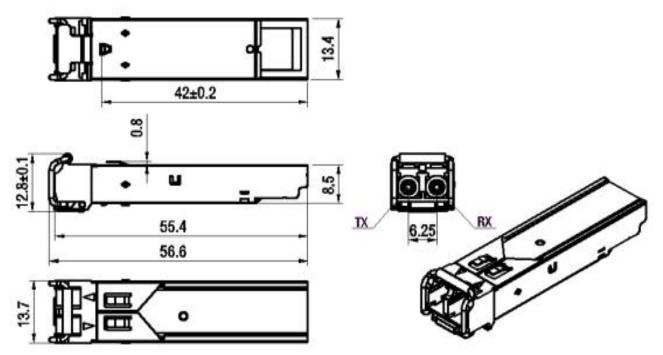
SFP 40 km transceiver | Cisco Compatible 2G SONET OC-48 / STM-16 PIN Functions

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	
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29	
30	



SFP 40 km transceiver | Cisco Compatible 2G SQNET OC-48 / STM-16 Mechanical Layouts





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