Optospan

Platinum OEM Series

SFP 100 km transceiver | Cisco Compatible 1G ZX 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-ZX Ethernet 28dB SFP
- 100 km ZX SFP for SMF @ 1.25Gbps
- 1550nm DFB+APD Laser 100 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-11DT55K100 is a Cisco Compatible Duplex 1000BASE-ZX Ethernet SFP transceiver designed for long distance optical communications up to 100 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-11DT55K100	Distance: 100 km				Fiber: 1550nm SMF	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	0	5	-28	-3		
Optical Calculation Results			-26.6	-21.6	26.6	28

Optical Budget Calculation for 100 km Platinum OEM SFP Optical Transceiver



PSFP-11DT55K100

- 1.25Gbps Gigabit Ethernet
- Fibre Channel 1x

Applications

• Other Optical Links

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SFP 100 km transceiver | Cisco Compatible 1G ZX 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	0		+70
Recommended Operating Condition				
Supply Voltage	V	3.13	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps		1.25	

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Мах
	Transmitt	er		
Differential Input Voltage Swing	mVpp	500		2400
Input Differential Impedance	ohm	85	100	115
Transmit Disable Voltage - High	V	2.0		Vcc
Transmit Disable Voltage - Low	V	0		0.8
Transmit Fault Voltage - High	V	2.0		Vcc+0.3
Transmit Fault Voltage - Low	V	0		0.5
Receiver				
Differential Output Voltage Swing	mVpp	370		2000
Differential Output Impedance	ohms	85	100	115
LOS Output Voltage - High	V	2.0		Vcc+0.3
LOS Output Voltage - Low	V	0		0.8





SFP 100 km transceiver | Cisco Compatible 1G ZX Ethernet

Optical Characteristics

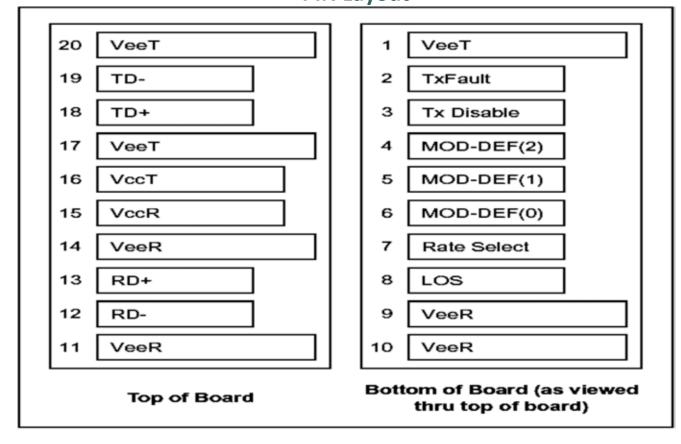
Parameter	Unit	Min.	Тур.	Мах	
	Transmitter				
Output Optical Power	dBm	0		5	
Optical Extinction Ratio	dB	9			
Optical Wavelength	nm	1500	1550	1580	
Spectral Width	nm			1	
Side Mode Suppression Ratio	dB	30			
Receiver					
Optical Center Wavelength	nm	1260		1600	
Receiver Sensitivity @	dBm	-28		-3	
LOS DE-Assert	dBm			-29	
LOS Assert	dBm	-42			

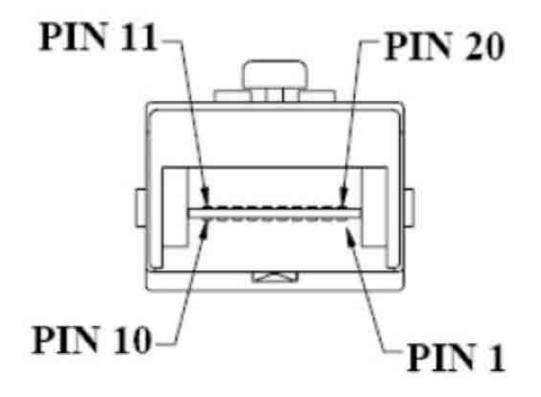
Laser Safety

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 100 km transceiver | Cisco Compatible 1G ZX Ethernet







Platinum OEM Series

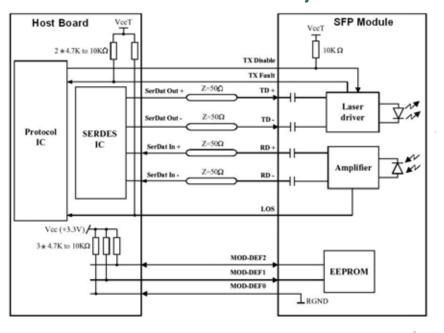
SFP 100 km transceiver | Cisco Compatible 1G ZX Ethernet PIN Functions

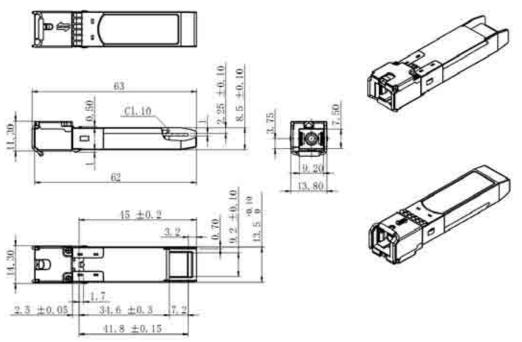
Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault Indication
3	Transmitter Disable
4	SDA Serial Data Signal
5	SCL Serial Clock Signal
6	TTL Low
7	Not Connected
8	Loss of Signal
9	Receiver ground
10	Receiver ground
11	Receiver ground
12	Inv. Received Data Out
13	Received Data Out
14	Receiver ground
15	Receiver Power Supply
16	Transmitter Power Supply
17	Transmitter Ground
18	Transmit Data In
19	Inv. Transmit Data In
20	Transmitter Ground
21	
22	
23	
24	
25	
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27	
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29	
30	

Platinum OEM Series



SFP 100 km transceiver | Cisco Compatible 1G ZX Ethernet Mechanical Layouts





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