

SFP 120 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 32dB SFP
- 120 km ZX SFP for SMF @ 1.25Gbps
- 1550nm DFB+APD Laser 120 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-11DT55K120



Applications

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

Description

Platinum OEM Series PSFP-11DT55K120 is a Cisco Compatible Duplex 1000BASE-ZX Ethernet SFP transceiver designed for long distance optical communications up to 120 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.

Optical Budget Calculation for 120 km Platinum OEM SFP Optical Transceiver

PSFP-11DT55K120	Distance: 120 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	-32	-10		
Optical Calculation Results			-29.8	-24.8	29.8	32



SFP 120 km transceiver | Cisco Compatible 1G ZX Ethernet General Specifications

Parameter	Unit	Min.	Тур.	Max
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		3.6
Storage Temperature	οС	-40		+85
Case Operating Temperature	•С	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.	Max
	Transmitter			
Differential Input Voltage Swing	m∨pp	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
Transmit Fault Voltage - Low	V	0		0.5
Receiver				
Differential Output Voltage Swing	m∨pp	370		2000
Differential Output Impedance	ohms			
LOS Output Voltage - High	V	2.0		Vcc
LOS Output Voltage - Low	V	0		0.8



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Optical Characteristics

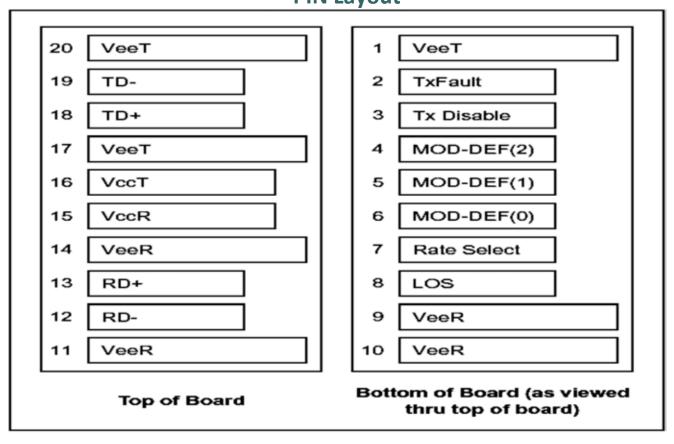
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	0		5
Optical Extinction Ratio	dB	9		
Optical Wavelength	nm	1500	1550	1580
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1260		1600
Receiver Sensitivity @ 1.25Gbps	dBm	-32		-10
LOS DE-Assert	dBm			-33
LOS Assert	dBm	-42		

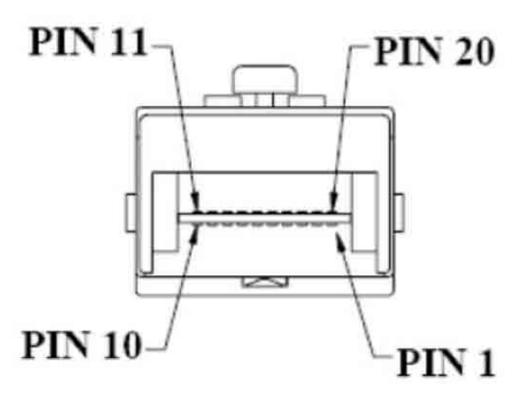
Laser Safety

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 120 km transceiver | Cisco Compatible 1G ZX Ethernet PIN Layout





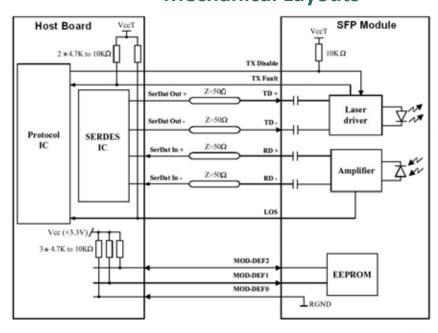


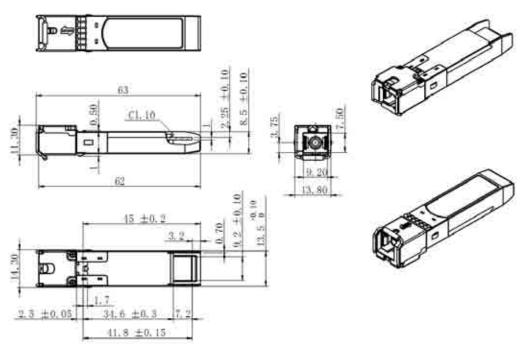
SFP 120 km transceiver | Cisco Compatible 1G ZX Ethernet PIN Functions

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	
26	
27	
28	
29	
30	



SFP 120 km transceiver | Cisco Compatible 1G ZX Ethernet | Mechanical Layouts





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