Platinum OEM Series

SFP+ 220m transceiver | Cisco Compatible 10G LRM 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
- 10GBASE-LRM Ethernet 3.5dB SFP+
- 220m LRM SFP+ for MMF @ 10Gbps
- 1310nm FP+PIN Laser 220m 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
- Compliant with SFF-8431, SFF-8432 & ROHS

Description

Platinum OEM Series PSPP-81DT31M220 is a Cisco Compatible Duplex 10GBASE-LRM Ethernet 10G Ethernet / 8G FC SFP+ transceiver designed for long distance optical communications up to 220m with signaling rates up to 10Gbps.

OptoSpan Platinum OEM Series 10Gbps 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 220m Platinum OEM SFP+ Optical Transceiver

PSPP-81DT31M220	Distance: 220m				Fiber: 1310nm MMF	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	-6.5	0.5	-10	1.5		
Optical Calculation Results		•	-7.6	-0.6	1.1	3.5

PSPP-81DT31M220



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SFP+ 220m transceiver | Cisco Compatible 10G LRM Ethernet General Specifications

Parameter	Unit	Min.	Тур.	Мах
Absolute Maximum Ratings				
Maximum Supply Voltage	V	-0.5		3.6
Storage Temperature	٥C	-40		+85
Case Operating Temperature	٥C	0		+70
Recommended Operating Condition				
Supply Voltage	V	3.15	3.3	3.45
Supply Current	mA			300
Data Rate	Gbps			11.1

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max	
	Transmitter				
Differential Input Voltage Swing	mVpp	150		1200	
Input Differential Impedance	ohm	85	100	115	
Transmit Disable Voltage - High	V	2		3.45	
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	350		700	
Differential Output Impedance	ohms	85	100	115	
LOS Output Voltage - High	V	2		Vcc+0.3	
LOS Output Voltage - Low	V	0		0.8	



SFP+ 220m transceiver | Cisco Compatible 10G LRM Ethernet

Optical Characteristics

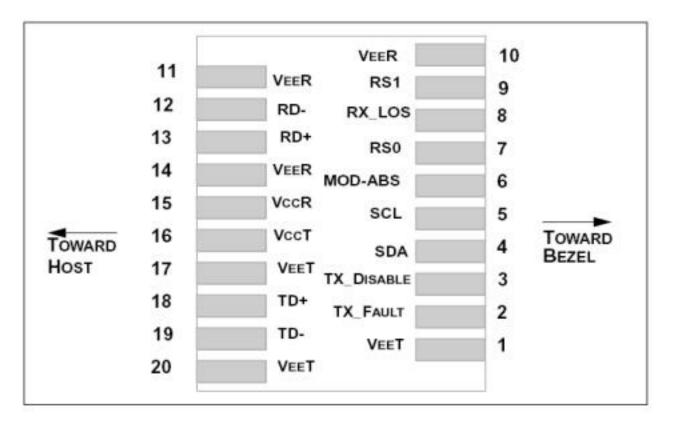
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	-6.5		0.5
Optical Extinction Ratio	dB	3.5		
Optical Wavelength	nm	1260	1310	1355
Spectral Width	nm			3.5
Side Mode Suppression Ratio	dB			
	Receive	r		
Optical Center Wavelength	nm	1260		1555
Receiver Sensitivity @ 10.3	dBm	-10		1.5
LOS DE-Assert	dBm			-11
LOS Assert	dBm	-25		

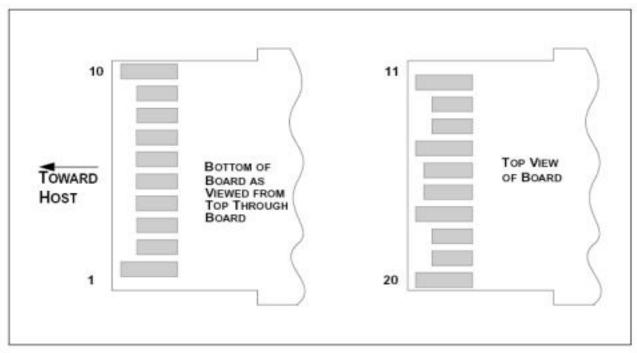
Laser Safety

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+ 220m transceiver | Cisco Compatible 10G LRM Ethernet PIN Layout





Platinum OEM Series

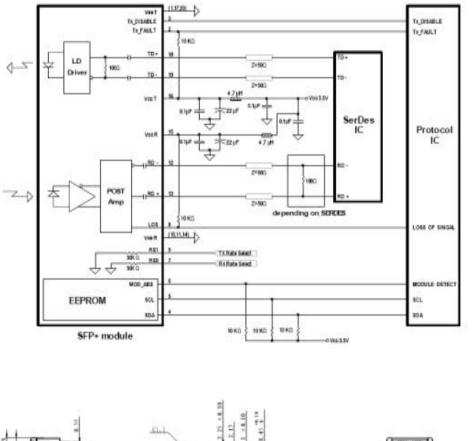
SFP+ 220m transceiver | Cisco Compatible 10G LRM Ethernet PIN Functions

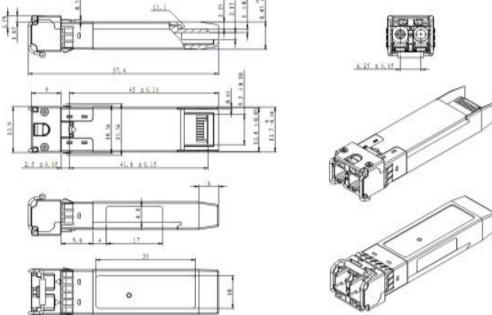
Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault Indication
3	Transmitter Disable
4	Module Definition 2
5	Module Definition 1
6	Module Definition 0
7	RX Rate Select (LVTTL).
8	Loss of Signal
9	TX Rate Select (LVTTL).
10	Receiver Ground
11	Receiver Ground
12	Inv. Received Data Out
13	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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Platinum OEM Series

Optospan

SFP+ 220m transceiver | Cisco Compatible 10G LRM Ethernet Mechanical Layouts





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