

PSPP-81DB27K060

SFP+ Single Fiber 60 km transceiver | Cisco Compatible 10G ER 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-ER/EW Ethernet 21dB SFP+
- 60 km ER SFP+ for SMF @ 10Gbps
- 1270Tx-1330Rx DFB+PIN Laser 60 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
- Compliant with SFF-8431, SFF-8432 & ROHS

- 10GBASE-ER @ 10.31Gbps
- 10 Gigabit Ethernet
- Fibre Channel 8x
- Fibre Channel 4x

Description

Platinum OEM Series PSPP-81DB27K060 is a Cisco Compatible Single Fiber BiDirectional 10GBASE-ER/EW Ethernet 10G Ethernet transceiver designed for long distance optical communications up to 60 km with signaling rates up to 10Gbps.

OptoSpan Platinum OEM Series 10Gbps 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.

Optical Budget Calculation for 60 km Platinum OEM SFP+ Optical Transceiver

PSPP-81DB27K060	Distance: 60 km				Fiber: 1270Tx-1330Rx	
	Tx Min dBm	Tx Max dBm	Rx Min dBm	Rx Max dBm	Link Attenuation dB	Power Budget dB
Product Specifications	1	6	-20	-6		
Optical Calculation Results			-19.8	-14.8	20.8	21



SFP+ Single Fiber 60 km transceiver | Cisco Compatible 10G ER 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	3.15	3.3	3.45	
Supply Current	mA			430	
Data Rate	Gbps		9.95/10.31		

Electrical Characteristics

Parameter	Unit	Min.	Тур.	Max
	Transmitt	er		
Differential Input Voltage Swing	m∨pp	150		1200
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		0.5
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+ Single Fiber 60 km transceiver | Cisco Compatible 10G ER Ethernet

Optical Characteristics

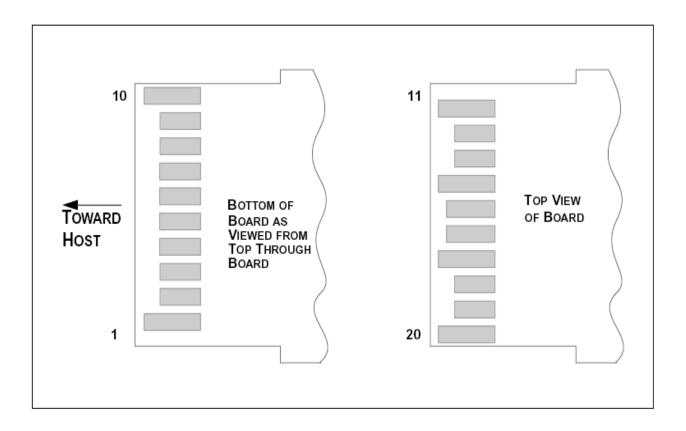
Parameter	Unit	Min.	Тур.	Max
Transmitter				
Output Optical Power	dBm	1		6
Optical Extinction Ratio	dB	3.5		
Optical Wavelength	nm	1260	1270	1280
Spectral Width	nm			1
Side Mode Suppression Ratio	dB	30		
Receiver				
Optical Center Wavelength	nm	1320		1340
Receiver Sensitivity @ 10G	dBm	-20		-6
LOS DE-Assert	dBm			-21
LOS Assert	dBm	-30		

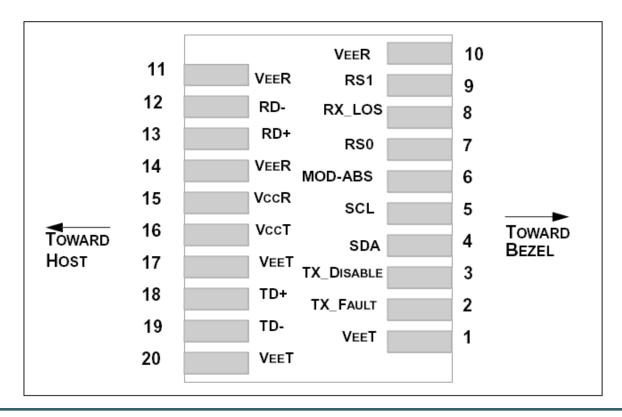
Laser Safety

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.



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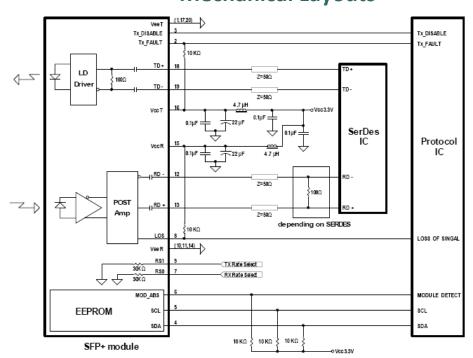


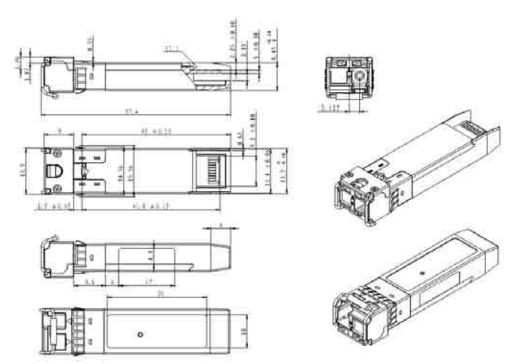
SFP+ Single Fiber 60 km transceiver | Cisco Compatible 10G ER Ethernet PIN Functions

Pin #	Name - Description
1	Transmitter Ground
2	Transmitter Fault
3	Transmitter Disable. Laser output disabled on high or open
4	2-wire Serial Interface Data Line
5	2-wire Serial Interface Clock Line
6	Module Absent. Grounded within the module
7	RS0 for Rate Select: Open or Low = Module supports ≤4.25Gbps
8	Loss of Signal indication. Logic 0 indicates normal operation
9	No connection required
10	Receiver Ground
11	Receiver Ground
12	Receiver Inverted DATA out. AC Coupled
13	Receiver DATA out. AC Coupled
14	Receiver Ground
15	Receiver Power Supply
16	Transmitter Power Supply
17	Transmitter Ground
18	Transmitter Ground
19	Transmitter Inverted DATA in. AC Coupled
20	Transmitter Ground
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SFP+ Single Fiber 60 km transceiver | Cisco Compatible 10G ER Ethernet | Mechanical Layouts





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