p.n.OPKAS1004

1.25Gbps GIGABIT ETHERNET SFP (SMALL FORM FACTOR PLUG TRANSCEIVER) with SFF-8472 DMI

Features

- Data Rate 1.25Gbps
- Single +3.3V power supply
- RoHS compliance
- Low power dissipation≦1.2W
- Class I laser product
- Low EMI and excellent ESD protection
- Commercial temperature (0 to 70˚C)
- SFF-8472 Digital Diagnostic Management Interface compliant

Description

Connection Technology Systems SFP (Small Form-factor Plug-in) fiber transceivers comply with IEEE 802.3z 1000 BASE-X standard and also provide DMI (Diagnostic Monitor Interface) function, which allows real-time access to device operating parameters such as transceiver temperature, laser bias current, transmitted optical power, received optical power and transceiver supply voltage.

SFP can be mixed and matched on a given switch to maximize flexibility. However, the connection and associated port at the remote end must match the chosen SFP connection type. CTS SFP transceiver can be used in those CTS Switches and Converter which support SFP modules.

Electrical Characteristics

Parameter	Symbol	Min.	Typical	Max.	Unit	Note
Transmitter Section:						
Input differential impedance	R_{in}	90	100	110		
Single ended data input swing	$V_{in\ PP}$	180		700	mVp-p	
Transmit Disable Voltage	V_D	Vcc – 1.3		Vcc	V	
Transmit Enable Voltage	V_{EN}	Vee		Vee+ 0.8	V	
Receiver Section:						
Single ended data output swing	Vout,pp	300		600	mv	1
LOS Fault	$V_{losfault}$	Vcc – 0.5		V_{CC_host}	V	2
LOS Normal	$V_{los\ norm}$	V_{ee}		V_{ee}+0.5	V	2

Note:
1. Into 100Ω differential termination.
2. LOS is an open collector output. Should be pulled up with 4.7kΩ – 10kΩ on the host board. Normal operation is logic 0; loss of signal is logic 1.

Order Information

OPKAS1004

Telran Model	CTS Model	Fiber Port					Operating Temperature
		Speed	Type	Connector	Distance	Wavelength	
OPKAS1004	SFP-31W2Bah (SM-10)	1000Mbps	WDM	LC	10KM	TX: 1490nm/1490nm RX: 1310nm/1310nm	0˚C ~ 70˚C