Optical Network Transceiver Manufacturer

INFRASTONE SFP Optical Transceivers

SX , LX

DESCRIPTION

The SFP transceivers are high performance, cost effective modulessupporting dual data-rate of 1.25Gbps/1.0625Gbps and 20km transmission distance with SMF.
The transceiver consists of three sections: a FP laser transmitter, a PIN photo diode integrated with a trans-impedance preamplifier (TIA) and MCU control unit. All modules satisfy class 1 laser safety requirements.
The transceivers are compatible with SFP Multi-Source Agreement (MSA) and SFF-8472.
For information, please refer to SFP MSA.

FEATURES

- Dual data-rate of 1.25Gbps/1.063Gbps operation
- 1310nm FP laser and PIN photodetector for 20km transmission
- Compliant with SFP MSA and SFF-8472 with duplex LC receptacle
- Digital Diagnostic Monitoring: Internal Calibration or External Calibration
- Compliant with SONET OC-24-LR-1
- Compliant with RoHS
- +3.3 single power supply
- Operating case temperature:
  Standard Models: 0℃~+70℃
  Wide Operating Temp Models:-40℃~+85℃
  Storage Temperature:-40℃~+85℃
  Ambient Relative Humidity:5~95%(non-condensing)

APPLICATIONS

- High-speed storage area networks
- Computer cluster cross-connect
- Custom high-speed data pipes
- LTE optical repeater application

TECHNICAL SPECIFICATIONS

	Gigabit Ethernet												
	SFP-SX	SFP-LSX	SFP-LX	SFP-LH	SFP-LHX	SFP-ZX	SFP-EZX	SFP-10A	SFP-10B	SFP-20A	SFP-20B	SFP-40A	SFP-40B
Wave-length	850nm	1310nm	1310nm	1310nm	1310nm	1550nm	1550nm	TX1310nm Rx1550nm	TX1550nm Rx1310nm	TX1310nm Rx1550nm	TX1550nm Rx1310nm	TX1310nm Rx1550nm	TX1550nm Rx1310nm
Max.TX	-4dBm	-1dBm	-3dBm	-2dBm	1dBm	5dBm	5dBm	-3dBm		-2dBm		2dBm	
Min.TX	-9.5dBm	-9dBm	-9.5dBm	-8dBm	-4dBm	0dBm	0dBm	-9dBm		-8dBm		-3dBm	
RX Sensitivity	-18dBm	-19dBm	-20dBm	-23dBm	-24dBm	-24dBm	-30dBm	-21dBm		-23dBm		-23dBm	
Link Budget	8.5dB	10dB	10.5dB	15dB	20dB	24dB	30dB	12dB		15dB		20dB	
Typical Distance	550m[a]	2km[b]	10km[c]	30km[c]	40km[c]	80km[c]	110km[c]	10km[c]		20km[c]		40km[c]	
Saturation	0dBm	-3dBm	-3dBm	-3dBm	-3dBm	-3dBm	-3dBm	-1dBm		-1dBm		-1dBm	

a.50/125μm,400MHz*km or62.5/125MHz*km @850nm multi-mode fiber optic cable
b.62.5/125μm,750MHz*km @1310nm multi-mode fiber optic cable
c.9/125μm single-mode fiber optic cable