SFP+-10G-T

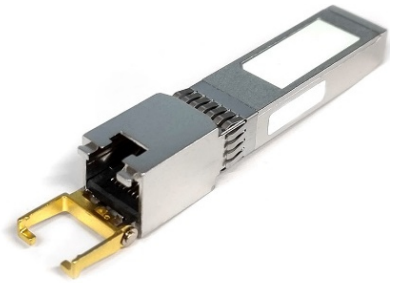
Optosa's 10G-T Copper SFP+ transceivers are based on 10 Gigabit Ethernet IEEE 802.3az standard.

RoHS Compliance

Optosa is fully committed to environment protection and sustainable development and has set in place a comprehensive program for removing polluting and hazardous substances from all of its products. The relevant evidence of RoHS compliance is held as part of our controlled documentation for each of our compliant products. RoHS compliance parts are available to order, please refer to the ordering information section for further details.

The SFP+ T can be used for Cisco SFP-10G-T-X, Aruba JL563A, Juniper JNP-SFP-10GE-T, Extreme 10338 and for many more OEMs like D-Link, H3C, Palo Alto, Meraki, Netgear, Arista, Brocade, Huawei, Dell, Alcatel, Nokia, HP…

Product Features



- Hot-pluggable SFP footprint
- Compact RJ-45 connector assembly
- RoHS compliant and lead-free
- Single +3.3V power supply
- 10 Gigabit Ethernet over Cat 6a cable
- Ambient Operating temperature: 0℃ to +70℃
- Supports Links up to 30m using Cat 6a/7 Cable

Applications

- 1.25G/2.5G/5G/10 Gigabit Ethernet

Ordering Information

Part Number	Description
SFP+-10G-T	10GBASE-T SFP+ Copper RJ-45 Connector 30m using Cat 6a/7 cable

Absolute Maximum Rating

Parameter	Symbol	Min	Max	Unit	Notes
Storage Temperature	TS	-40	85	℃	
Operating Case Temperature	TOP	0	70	℃	

Recommended Operating Conditions

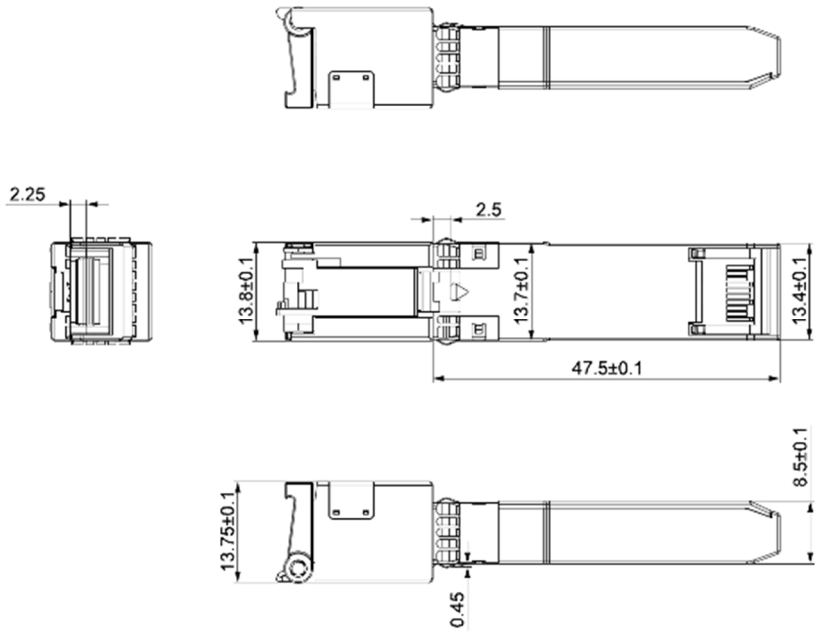
Parameter	Symbol	Min	Typical	Max	Unit	Notes
Supply Current	Is		700	750	mA	2.5W max power over full range of voltage and temperature. See caution note below
Input Voltage	Vcc	3.13	3.3	3.47	V	Referenced to GND
Surge Current	Isurge			30	mA	Hot plug above steady state current. See caution note

General Specifications

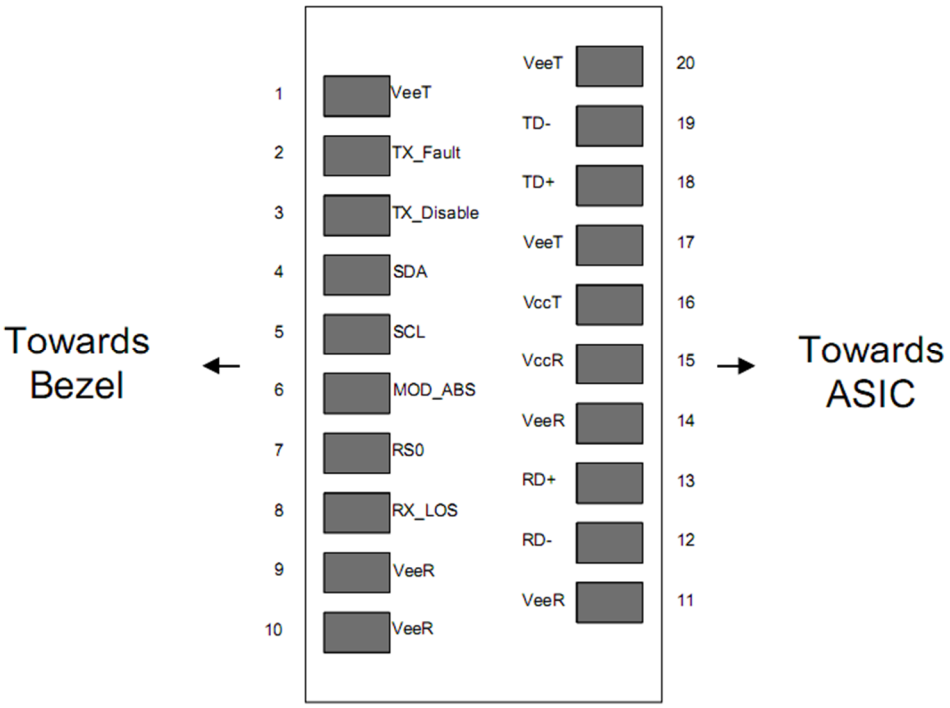
Parameter	Test Point	Min	Typical	Max	Unit	Notes
Data Rate	DR		10.3		Gb/s	IEEE 802.3 compatible.
Cable Length	CL		30		m	Category 6a/7 UTP

Mechanical Dimensions

Units: mm



Pin Assignment and Description



Pin Assignment

Pin	Signal Name	Description	Notes
1	V_{EET}	Transmitter Ground	
2	TX FAULT	Transmitter Fault Indication	Not supported
3	TX DISABLE	Transmitter Disable	
4	SDA	SDA Serial Data Signal	
5	SCL	SCL Serial Clock Signal	
6	MOD_ABS	Module Absent. Grounded within the module	
7	RS0	Not Connected	
8	LOS	Loss of Signal	
9	V_{EER}	Receiver ground	
10	V_{EER}	Receiver ground	
11	V_{EER}	Receiver ground	
12	RD-	Inv. Received Data Out	
13	RD+	Received Data Out	
14	V_{EER}	Receiver ground	
15	V_{CCR}	Receiver Power Supply	
16	V_{CCT}	Transmitter Power Supply	
17	V_{EET}	Transmitter Ground	
18	TD+	Transmit Data In	
19	TD-	Inv. Transmit Data In	
20	V_{EET}	Transmitter Ground	