

Copper SFP+ Transceivers RJ-SP-10GBASE-T

Description:

OPTOKON's Copper Small Form Pluggable (SFP+) transceivers are based on the SFP Multi Source Agreement (MSA). They are compatible with the 10Gbase-T standards as specified in IEEE Std 802.3 . RJ-SP-10GBASE-T uses the SFP's RX_LOS(must be pulled up on host) pin for link indication. If pull up or open SFP's TX_DISABLE pin, PHY IC be reset.

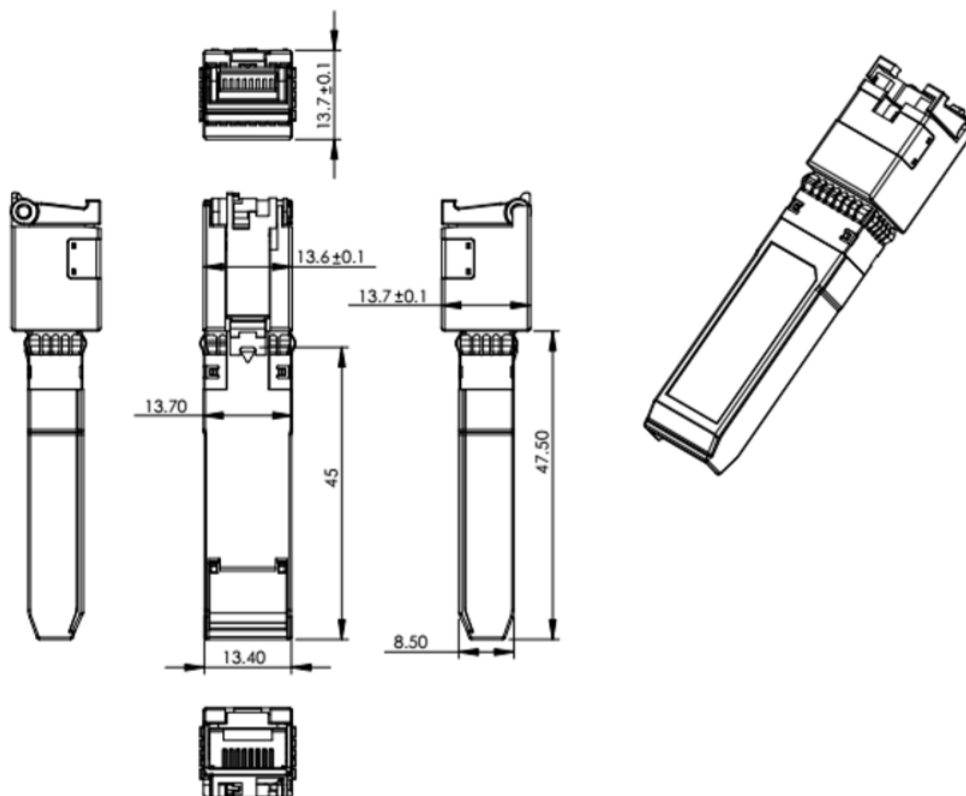


Specifications:

Temperature

Name	Min	Max	Unit	Notes/Conditions
Operating Temperature	0	65		Case temperature
Storage Temperature	-40	85		Ambient temperature

Dimension



SFP+ HOST Connector Pin Out

PIN	Symbol	Name/Description	Ref
1	VEET	Transmitter Ground (Common with Receiver Ground)	1
2	TFAULT	Transmitter Fault. Not supported.	
3	TDIS	Transmitter Disable. Laser output disabled on high or open.	2
4	MOD_DEF(2)	Module Definition 2. Data line for Serial ID.	3
5	MOD_DEF(1)	Module Definition 1. Clock line for Serial ID.	3
6	MOD_DEF(0)	Module Definition 0. Grounded within the module.	3
7	Rate Select	No connection required	
8	LOS	High indicates no linked. low indicates linked.	
9	VEER	Receiver Ground (Common with Transmitter Ground)	1
10	VEER	Receiver Ground (Common with Transmitter Ground)	1
11	VEER	Receiver Ground (Common with Transmitter Ground)	1
12	RD-	Receiver Inverted DATA out. AC Coupled	
13	RD+	Receiver Non-inverted DATA out. AC Coupled	
14	VEER	Receiver Ground (Common with Transmitter Ground)	1
15	VCCR	Receiver Power Supply	
16	VCCT	Transmitter Power Supply	
17	VEET	Transmitter Ground (Common with Receiver Ground)	1
18	TD+	Transmitter Non-Inverted DATA in. AC Coupled.	
19	TD-	Transmitter Inverted DATA in. AC Coupled.	
20	VEET	Transmitter Ground (Common with Receiver Ground)	1

Ordering code:

Part number:	Speed [Mbps]	Distance [m]	Cable type	Host port	Temperature[i]
RJ-SP-10GBASE-T	10000	80	CAT6A	10GBASE-R	-10 to +70° C

Automatic crossover detection is enabled. External crossover cable is not required

1. Circuit ground is connected to chassis ground
2. PHY disabled on TDIS > 2.0 V or open, enabled on TDIS < 0.8 V
3. Should be pulled up with 4.7k - 10k Ohms on host board to a voltage between 2.0 V and 3.6 V. MOD_DEF(0) pulls line low to indicate module is plugged in.