

10GBASE-T SFP+ Copper RJ-45 30m Transceiver

P/N: 6C-SFP-10G-T



FEATURES

- Supports Links up to 30m using Cat 6a/7 Cable
- SFF-8431 and SFF-8432 MSA Compliant
- IEEE 802.3az Compliant
- Low Power Consumption (2.5W max @ 30m)
- Fast Retrain EMI Cancellation Algorithm
- Low EMI Emissions
- I2C 2 Wire Serial Interface for Serial Id and Phy Registers
- Auto-negotiates with other 10GBase-T-NC PHYs
- Automatic Detection and Correction of Wiring and Polarity Swaps
- Robust Die Cast Housing
- Bail Latch Style ejector mechanism
- Unshielded and Shielded cable support

DESCRIPTION

The 6COM 6C-SFP-10G-T copper transceiver module is a high performance integrated duplex data link for bi-directional communication over copper cable. It is specifically designed for high speed communication links that require 10Gigabit Ethernet over Cat 6a/7 cable. This is the first SFP+ transceiver that offers 10Gb/s communication over this type of media.



General Specification

Parameter	Symbol	Min	Тур	Max	Unit	Remarks
Bit Error Rate	BER			10-12		
Operating Temperature	T _{OP}	-5		85	°C	Case temperature
Storage Temperature	T _{STO}	- 40		85	°C	Ambient temperature
Operating Humidity	-	5		95	%	Non condensing
Power @30m	I_S		2.3	2.5	W	
Input Voltage	Vcc	3	3.3	3.6	V	

PIN #	Symbol	Description		
1	VEET	Transmitter ground (common with receiver ground)		
2	TFAULT	Transmitter Fault.		
3	T _{DIS}	Transmitter Disable. Laser output disable on high or open		
4	SDA	Data line for serial ID		
5	SCL	Clock line for serial ID		
6	MOD_ABS	Module Absent. Grounded within the module		
7	RS0	No connection required		
8	LOS	Loss of Signal indication. Logic 0 indicates normal operation		
9	RS1	No connection required		
10	VEER	Receiver ground (common with transmitter ground)		
11	VEER	Receiver ground (common with transmitter ground)		
12	RD-	Receiver Inverted DATA out. AC coupled		
13	RD+	Receiver Non-inverted DATA out. AC coupled		
14	V _{EER}	Receiver ground (common with transmitter ground)		
15	V _{CCR}	Receiver power supply		
16	Vcct	Transmitter power supply		
17	V _{EET}	Transmitter ground (common with receiver ground)		
18	TD+	Transmitter Non-Inverted DATA in. AC coupled		
19	TD-	Transmitter Inverted DATA in. AC coupled		
20	V _{EET}	Transmitter ground (common with receiver ground)		

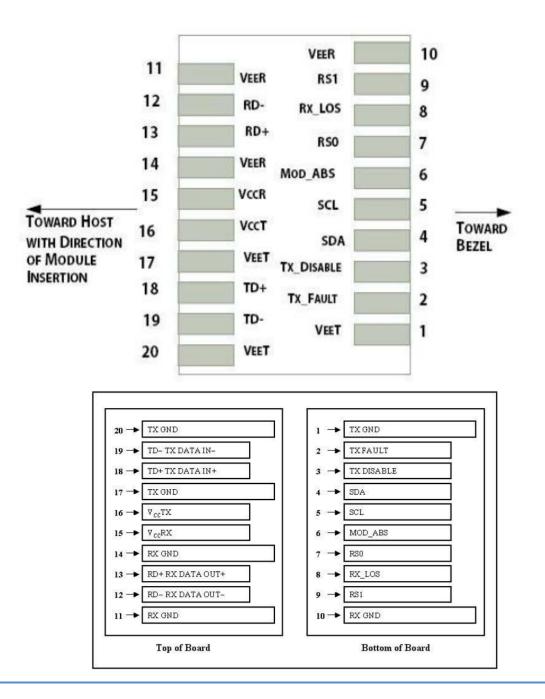
1. Pin Assignment



Note:

- 1. IEEE standard 802.3ae. IEEE Standard Department, 2005.
- 2. Enhanced 8.5 and 10 Gigabit Small Form Factor Pluggable Module "SFP+" SFF-8431
- 3. Digital Diagnostics Monitoring Interface for Optical Transceivers SFF-8472.

2. Electrical Pad Layout

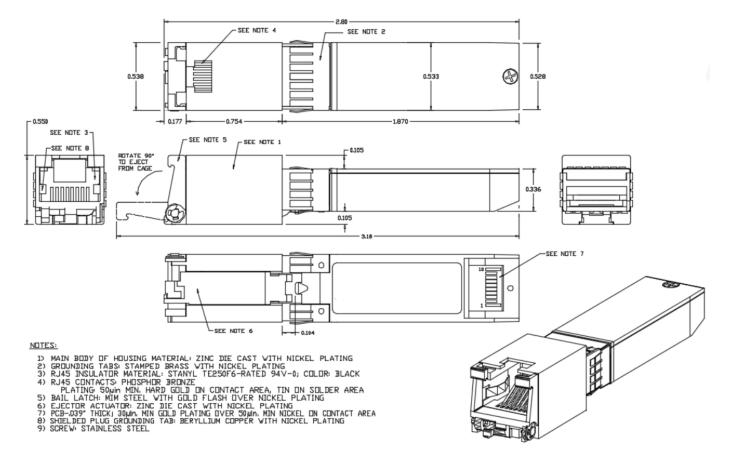


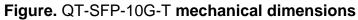


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OPTICAL NETWORK TRANSCEIVER MANUFACTURER

3. Mechanical Specifications





4. Ordering information

Part number	Operating Case temperature
6C-SFP-10G-T	Copper SFP,10.125 Gb/s, RJ-45 connector,30M, 0°C to +70°C