

10GBASE-T Copper SFP Transceiver

ET5402-RJ45



Product Features

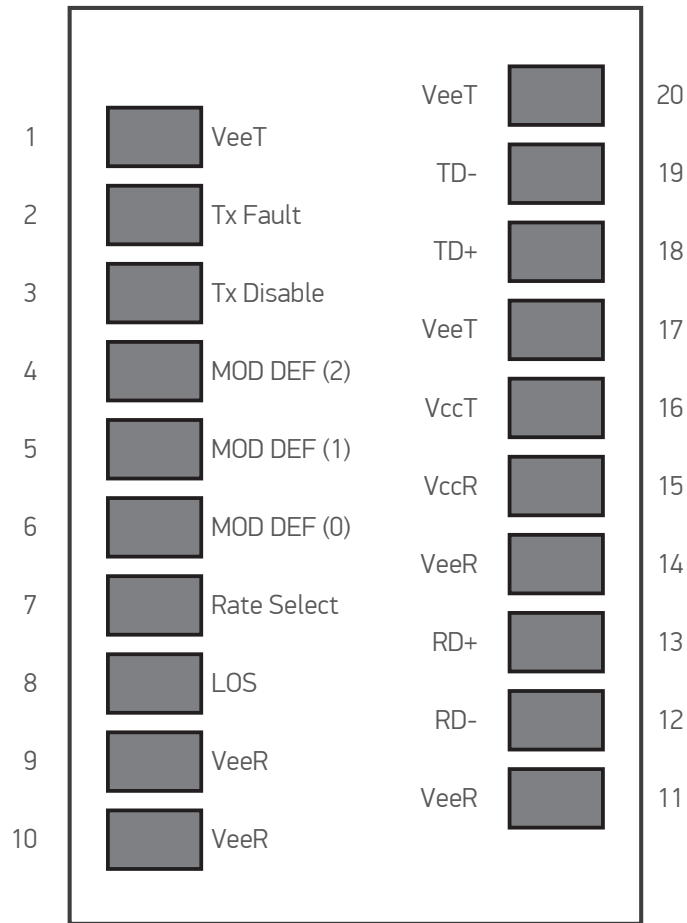
- Hot-pluggable SFP footprint
- Low power dissipation
- Compact RJ-45 connector assembly
- Detailed product information in EEPROM
- +3.3V single power supply
- 10 Gigabit Ethernet over Cat 6a cable
- Commercial: 0°C to +65°C

Descriptions

The Copper SFP+ 10GBASE-T copper small form pluggable (SFP) transceivers are based on the SFP multi-source agreement (MSA). They are compatible with the 10GBASE-T/5GBASE-T/2.5GBASE-T/1000BASE-T standards as specified in IEEE Std. 802.3.

Pin Description

**Towards
Bezel**



**Towards
ASIC**

Pin Descriptions

Pin	Signal Name	Description	Notes
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
Notes:			
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 4.7 k - 10 k 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.		

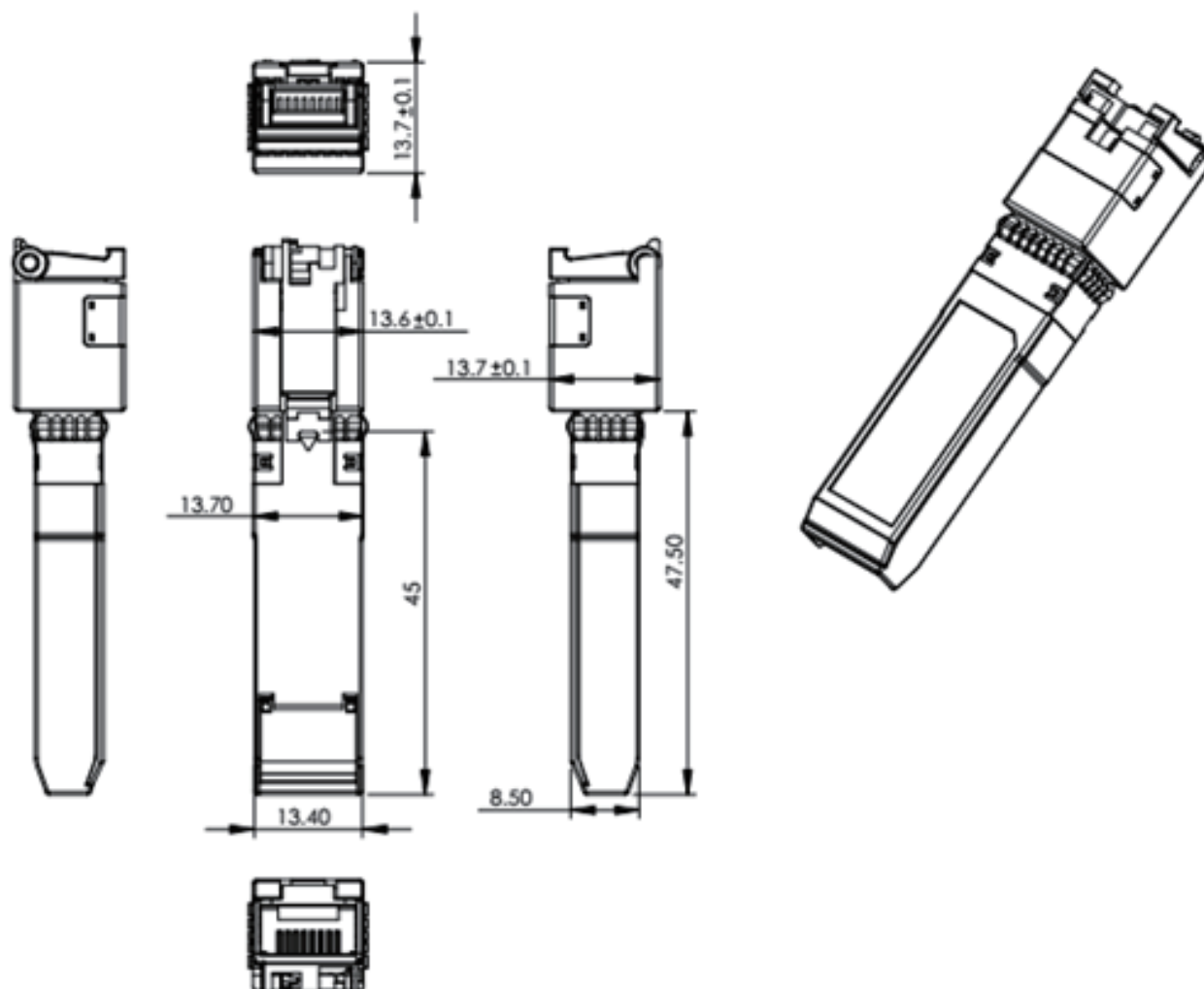
Electrical Characteristics

Parameter	Symbol	Minimum	Typical	Maximum
Supply Current	I _s		700	900
Input Voltage	V _{cc}	3.13	3.3	3.47
Maximum Voltage	V _{max}			4

Ordering Information

Line Port	Cable	Reach	Host Port	Temp	DDM	RoHS
10GBASE-T	CAT6A	30 m	10GBASE-R	0~ 65 °C	Available	Compliant
5GBASE-T	CAT5E	50 m	10GBASE-R	0~ 65 °C	Available	Compliant
2.5GBASE-T	CAT5E	50 m	10GBASE-R	0~ 65 °C	Available	Compliant
1000BASE-T	CAT5E	100 m	10GBASE-R	0~ 65 °C	Available	Compliant
100BASE-T	CAT5E	100 m	10GBASE-R	0~ 65 °C	Available	Compliant

Mechanical Specifications



Warranty

Please check www.edge-core.com for the warranty terms in your country.

For More Information

To find out more about Edgecore Networks Corporation products and solutions, visit www.edge-core.com.

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To purchase Edgecore Networks solutions, please contact your Edgecore Networks Corporation representatives at +886 3 563 8888 (HQ) or +1 (949)-336-6801 or authorized resellers.

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