



ES-T6-R

10GBase-T Copper SFP+ 80M Transceiver

- > Up to 10Gb/s bi-directional data links
- Hot-pluggable SFP+ footprint

SFP+

- > Fully metallic enclosure for low EMI
- Low power dissipation
- Compact RJ-45 connector assembly
- > Access to physical layer IC via 2-wire serial bus
- > Supports Links up to 80m using Cat 6a/7 Cable
- RoHS Compliant
- Operating case temperature: 0°C to 70°C



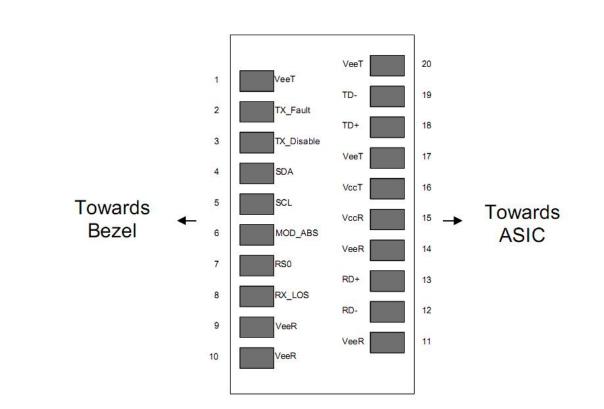
Applications

> 10 Gigabit Ethernet over Cat 6a/7 cable

Description

ETU-LINK's ES-T6-R Copper Small Form Pluggable (SFP) transceivers are high performance, cost effective module compliant with the 10G Ethernet and 10GBASE-T standards as specified in IEEE 802.3az, which supporting 10Gbps data- rate up to 80 meters reach over unshielded twisted-pair category 6a/7 cables. The module provides standard serial ID information compliant with SFP+ MSA, which can be accessed with address of A0h via the 2wire serial EEPROM protocol.

Pin Definitions



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

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+3.3V Volt Electrical Power Interface

The has an input voltage range of +3.3V +/- 5%. **Table 1. +3.3V Volt electrical power interface**

+3.3V volt Electrical Power Interface							
Parameter	Symbol	Min	Тур	Max	Units	Notes/Conditions	
Supply Current	ls			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	
Maximum Voltage	Vmax			3.8	V		

General Specifications

Table 2. General specifications

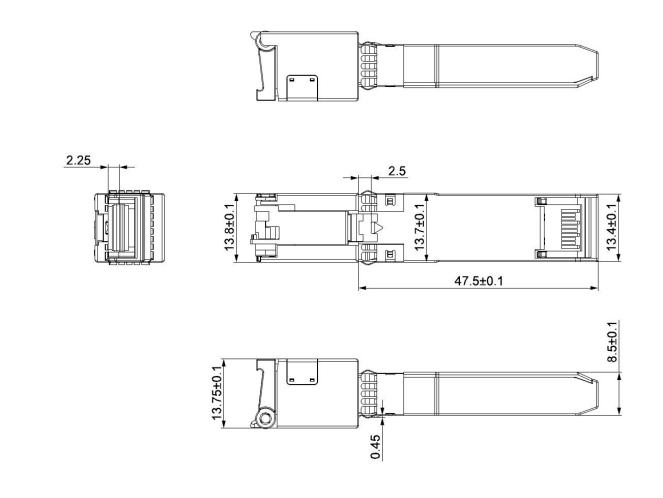
General							
Parameter	Symbol	Min	Тур	Max	Units	Notes/Conditions	
Data Rate	BR		10.3		Gb/sec	IEEE 802.3 compatible.	
Cable Length	L			80	m	Category 6a/7 UTP. BER <10-12	

Environmental Specifications

Table 3. Environmental specifications

Environmental Specifications							
Parameter	Symbol	Min	Тур	Max	Units	Notes/Conditions	
Operating Temperature	Тор	0		70	°C	Case temperature	
Storage Temperature	Tsto	-40		85	°C	Ambient temperature	

Mechanical Specifications



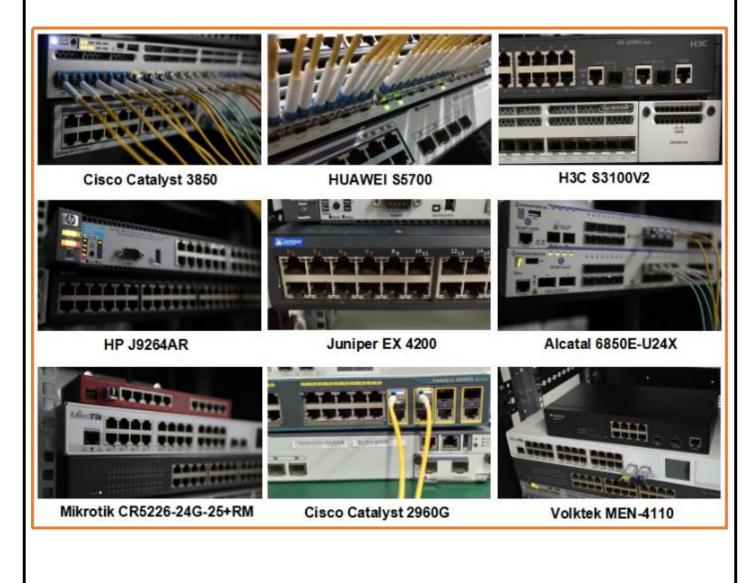
Ordering information

Part Number	Tx_DIS	Link Indicator on Rx_LOS Pin	Temp.	
ES-T6-R	Yes	Yes	0~70°C	

Compatibility Test

In order to ensure the product compatibility, our products will be tested on the switch before shipment. Our modules can compatible with many mainstream brand switches, such as Cisco, Juniper, Extreme, Brocade, IBM, H3C, HP, Huawei, D-Link, Mikrotik, ZTE, TP-Link...

Our test equipment: VOLKTEK MEN-4110, HP 2530-8G, CRS226-24G-25+RM, Catalyst 2960G Series, Catalyst 3850 XS 10G SFP+, Catalyst 3750-E Series, HUAWEI S5700Series, H3C S3100V2 Series, Juniper-EX4200, etc.



Product Production Process

Quality Assurance

Continuous introduction of new equipment, produced by strict standards, strict quality inspection, to guarantee the high quality standard of each product.



Product Final Test

Product Initial Test

Switch Testing

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Packaging

ETU-Link provides two kinds of packaging, 10pcs/Tray and individual package.



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