Ikshu

SFP-10G-T

10GBASE-T Copper SFP+ Transceiver



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

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 30m 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

SFP-10G-T 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 30 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. The physical IC can also be accessed via 2wire serial bus at address A0h.

Cable Length

Standard	Cable	Reach	Host Port
10Gbase-T	CAT6A	30m	XFI

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Specification

+3.3V Volt Electrical Power Interface						
Parameter	Symbol	Min	Typical	Max	Unit	Notes
Input Voltage	Vcc	3.13	3.3	3.47	V	
Supply Current	lcc		700	900	mA	3.0W max power over full range of voltage and temperature.See caution note below
Maximum Voltage	Vmax	-0.3		4.0	V	
Surge Current	Surge		TBD		mA	
Current			current See	e caution not	9	

Notes:

1. Power consumption and surge current are higher than the specified values in the SFP MSA.

General Specifications:

Parameter	Symbol	Min	Typical	Max	Unit	Notes
Data Rate	BR	10		1000	Mb/s	IEEE 802.3 compatible
Storage temperature	TS	-40		85	ĉ	Case temperature
Operating temperature range	Тор	0		60	°C	Ambient temperature
I ² C Clock Rate		0		200,000	Hz	

Notes:

1) Clock tolerance is +/- 50 ppm.

2) By default, the 10G Copper SFP is a full duplex device in preferred master mode.

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

4) By default, 1000 GBASE-T operation requires the host system to have an SERDES interface with no clocks.

Ordering information

Model No.	Product Description	
Ikshu SFP-10G-T	10G Copper SFP+ 0~70°C	

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