

Ikshu SFP-1000-T-C

Description

IKSHU-SFP-1000-T-C Copper Small Form Pluggable (SFP) transceivers is high performance, cost effective module compliant with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE 802.3-2002 and IEEE 802.3ab, which supporting 1000Mbps data-rate up to 100 meters reach over unshielded twisted-pair category 5 cable. The module supports 1000 Mbps full duplex data-links with 5-level Pulse Amplitude Modulation (PAM) signals. All four pairs in the cable are used with symbol rate at 250Mbps on each pair. The module provides standard serial ID information compliant with SFP MSA, which can be accessed with address of A0h via the 2 wire serial CMOS EEPROM protocol. The physical IC can also be

accessed via 2 wire serial bus at address A0h.

Features



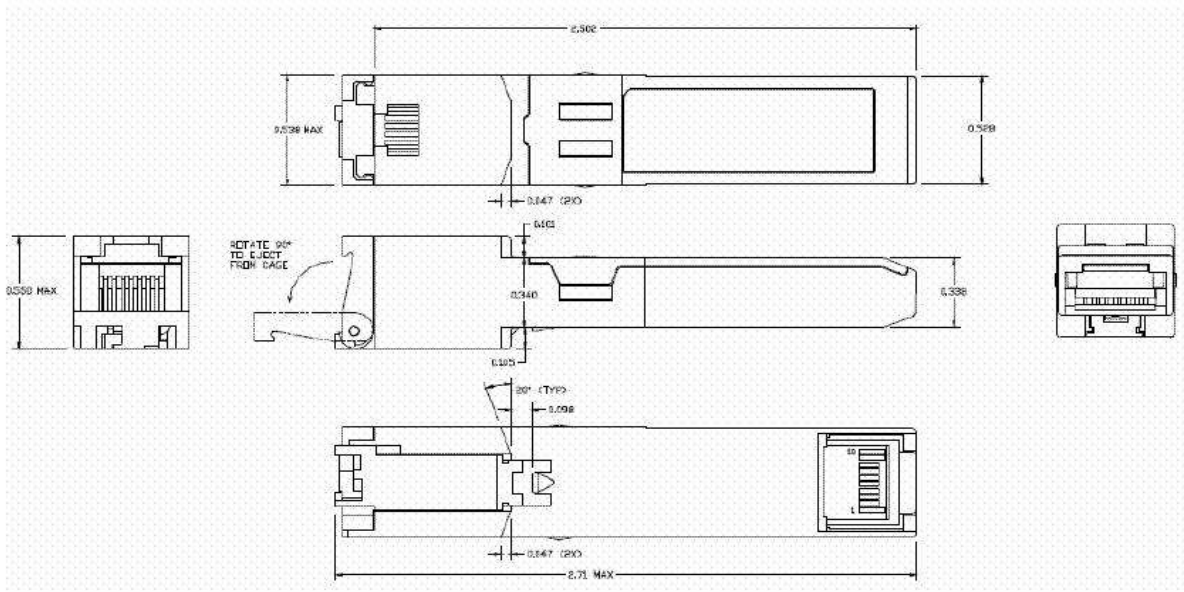
- ❖ Up to 1.25Gb/s bi-directional data links
- ❖ Hot-pluggable SFP footprint
- ❖ Extended case temperature range (0°C to +70°C)
- ❖ Fully metallic enclosure for low EMI
- ❖ Low power dissipation (1.05 W typical)
- ❖ Compact RJ-45 connector assembly
- ❖ Access to physical layer IC via 2-wire serial bus
- ❖ 1.25 Gigabit Ethernet over Cat 5 cable
- ❖ 1000BASE-T operation in host systems with SERDES interface
- ❖ 10/100/1000Mbps compliant in host systems with SGMII interface

Specifications

Parameter	Symbol	Minimum	Maximum	Unit	Notes/Condition
Operating Temperature	T _{op}	0	70	°C	Case Temperature
Storage Temperature	T _{sto}	-40	85	°C	Ambient Temperature
Data Rate	BR	10	1000	Mb/sec	IEEE 802.3 compatible
Cable length	L	-	100	m	Category 5 UTP. BER<10 ⁻¹²
Input Voltage	V _{cc}	3.13	3.3	3.47	V
Maximum Voltage	V _{max}		4	V	

Caution: Power consumption and surge current are higher than the specified values in the SFP MS

Block Diagram



Ordering Information

Part No.	Distance
Ikshu SFP-1000-T-C	1000Mbps only, SERDES interface, Copper SFP with spring latch



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