

065-73TXMG Small Form-factor Pluggable (SFP) 10/100BaseT/TX Module



The Signamax 065-73TXMG is a Small Form-factor Pluggable (SFP) 10/100BaseT/TX module that supports Standard and/or Fast Ethernet over Category 5 or better twisted-pair cable at distances up to 100 meters. It adheres to the IEEE 802.3u standard for Fast Ethernet, and is a cost-effective method of providing changeable 10/100BaseT/TX Ethernet twisted-pair interfaces to switches and media converters equipped with a standard SFP slot.

APPLICATIONS

- Media Converters
- 100BaseT/TX LAN switch applications

KEY FEATURES

- Compliant with SFP MultiSource Agreement. Compliant with IEEE802.3u
- 100 meters transmission over UTP Cat. 5 cable.
- Capable of 100BASE-TX auto-negotiation.
- Single 3.3V power supply and low power dissipation.

ORDERING INFORMATION

Part Number	Description
065-73TXMG	10/100BaseT/TX SFP Module – RJ-45, 100 meters

SUMMARY SPECIFICATION

Part Number	Minimum Data Rate	Maximum Data Rate	Typical Bit Error Rate	Supply Voltage	Operating Temp.
065-73TXMG	10 Mbps	100 Mbps	10 ⁻¹⁰	3.3V	0 ~ 70 °C

DETAILED SPECIFICATIONS

• APPLICABLE STANDARDS

IEEE 802.3 (10BaseT Standard Ethernet)
IEEE 802.3u (100BaseTX Fast Ethernet)

• ABSOLUTE MAXIMUM RATINGS

Storage Temperature: TS -40 -- 85 °C

Supply Voltage: V_{CC} -0.5 -- 3.6 V

Relative Humidity: 5 - 95 %

• RECOMMENDED OPERATING CONDITIONS

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNITS	NOTE
Ambient Operating Temperature	T _{AMB}	0		70	°C	
Supply Voltage	V _{CC}	3.135	3.3	3.465	V	
Supply Current (3.3V)	I _S		190	250	mA	

• HIGH-SPEED ELECTRICAL INTERFACE, HOST TO SFP

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNITS	NOTE
TD+, TD- Input Voltage Swing	V _{in+} , V _{in-}	250		1200	mV	2
RD+, RD- Output Voltage Swing	V _{out+} , V _{out-}	250		800	mV	2
Rise Time (Receiver)	t _r			2	ns	1
Fall Time (Receiver)	t _f			2	ns	1
Tx Input Impedance	Z _{in}		50		Ohm	2
Rx Output Impedance	Z _{out}		50		Ohm	2

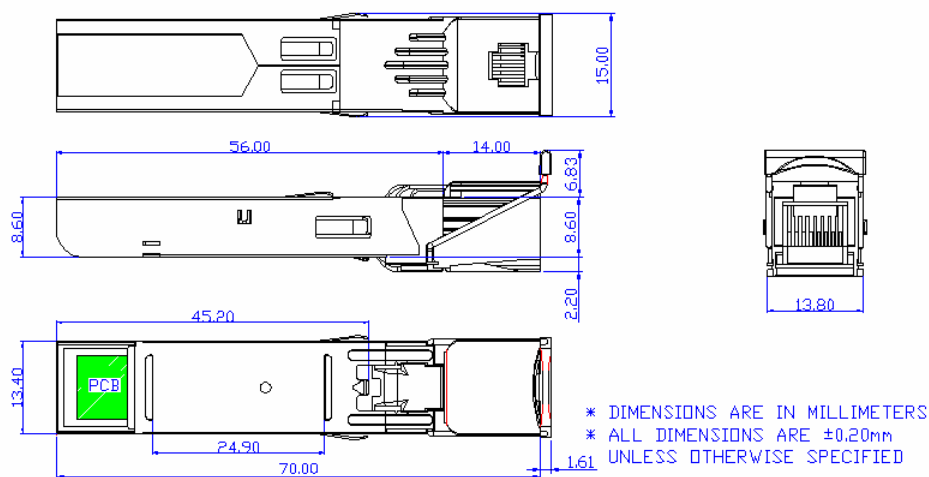
Notes: 1. 10% to 90% value
2. Single ended

• HIGH-SPEED ELECTRICAL INTERFACE, CABLE TO SFP

PARAMETER	SYMBOL	MIN	TYP.	MAX	UNITS	NOTE
Transmission Frequency	f _t		125		MHz	1
Tx Output Impedance	Z _{out, Tx}		100		Ohm	2
Rx Input Impedance	Z _{in, Rx}		100		Ohm	2

Notes: 1. MLT-3 encoding per IEEE 802.3u.
2. Differential for frequencies ranging from 1 MHz to 125 MHz.

• MECHANICAL DIMENSIONS (units in mm)



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