

RJ45 SFP Module

Datasheet

SM331T

1000BASE-T RJ45 SFP Module



Highlights

- Support 10/100/1000Base-T Operation in Host Systems
- Support TX Disable function
- For 100m Reach Over UTP Cat 5e or above Cable
- Hot-Pluggable SFP Footprint Features
- Commercial Product Operating Temperature Range: 0-70°C
- Compliant with IEEE Std 802.3-2002
- Fully Metallic Enclosure for Low EMI
- Low Power Dissipation (0.5 W Typical, 0.8 W Max)

Highlights

SM331T is an SFP module that converts SFP ports to RJ45 ports, delivering a dependable 1000 Mbps connection over RJ45 cables. Compliant with SFP MSA standards, it guarantees wide compatibility with a wide range of network devices. SM331T is a reliable solution for high-speed data transmission in switches, gateways, and other network equipment with SFP ports.

Specifications

Hardware Features & Performance

Model		SM331-T
General	Standards	IEEE 802.3, IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, SFF-8472, INF 8074/ SFP MSA
	Data Rate	1.25 Gbps
	MAC Interface	10/100/1000 Mbps: 1000BASE-X
	Power Input	3.3V
	Maximum Power Consumption	0.396 W @1000 Mbps Full Duplex
	Cable Distance	10Base-T: UTP Cat. 3, 4, 5 cable (max. 100 m) 100BASE-TX: UTP Cat. 5 or above (max. 100m) 1000BASE-T: UTP Cat. 5e or above (max. 100m)
	Tx Output Impedance	100Ω
	Rx Input Impedance	100Ω
	Input Swing	200-1200 mVpp
	Output Swing	300-800 mVpp
	TX_Disable	Yes
	Hot Swappable	Yes
	Dimensions	2.7*0.5*0.5 in (67.4*13.4*13.8 mm)
Physical & Environment	Operating Temperature	0 – 70 °C (32 – 158 °F)
	Storage Temperature	-40 – 85 °C (-40 – 185 °F)
	Operating Humidity	10% to 90% RH non-condensing
	Storage Humidity	5% to 90% RH non-condensing