



- Up To 1.25Gb/s Bi-Directional Data Links
- Hot Pluggable SFP Footprint
- TX Disable and RX Los/Without Los Function
- Fully Metallic Enclosure for Low EMI
- Low Power Dissipation (1.05W Typical)
- Compact RJ45 Connector Assembly
- Access to Physical Layer IC Via 2-Wire Serial Bus
- 1000BASE-T Operation In Host Systems with SERDES
- Operating Case Temperature Range: 0 °C to +70°C (Commercial)

## Product Features

- 1.25 Gigabit Ethernet over Cat5 Cable

## Product Description

The Copper Small Form Pluggable (SFP) transceivers are high performance, cost effective modules that are compliant with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE802.3-2002 and IEEE 802.3ab, which supports 1000Mbps data-rate up to 100m reach over unshielded twisted-pair C5E cable.

The module supports 1000Mbps 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 ACh.

Specification	Details	Specification	Details
Storage Temperature	-40 to +85 °C	Operating Case Temperature	+70 °C
EMC	EN61000-3	RoHS	2002/95/EC
Component Recognition	IEC/EN 60950, UL	Electrostatic Discharge (ESD)	IEC/EN 61000-4-2
Laser Eye Safety	FDA 21 CFR 1040.10, 1040.11 IEC/EN 60825-1, 2	Electromagnetic Interference (EMI)	FCC Part 15 Class B EN 55022 Class B (CISPR 22A)