



Vi-Link

Fiber Optic Communications

Copper Ethernet 10/100/1000M SFP+

Network Component Series

Model MD10

Features

- Up to 1.25 Gb/s bi-directional data links
- Hot-pluggable SFP footprint
- Extended case temperature range (-40°C to +85°C)
- Fully metallic enclosure for low EMI
- Low power dissipation
- Compact RJ-45 connector assembly
- Detailed product information in EEPROM
- +3.3V single power supply
- Access to physical layer IC via 2-wire serial bus
- 10/100/1000M BASE-T operation in host systems with SGMII interface
- Compliant with SFP MSA, IEEE Std 802.3TM-2002
- Compliant with FCC 47 CFR Part 15, Class B
- RoHS Compliant Products



Product Description

The MD10 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 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 2wire serial CMOS EEPROM protocol.

The physical IC can also be accessed via 2wire serial bus at address A0h.

Applications

- 1.25 Gigabit Ethernet over Cat cable

Ordering Information

Model	Descriptions
MD10	10/100/1000M Copper Ethernet SFP+ Module