



Features

- Support 10Gbase-T / 5Gbase-T / 2.5Gbase-T / 1000base-T
- Support 10Gbase-R on host port
- Hot-pluggable SFP footprint
- RoHS compliant and lead-free
- Single +3.3V power supply
- Extended case temperature range (0°C to +70°C)
- Fully metallic enclosure for low EMI
- Compact RJ-45 connector assembly
- 10 Gigabit Ethernet over Cat 6a cable



Product Description

The MD10G Copper Small Form Pluggable (SFP)transceivers is high performance, cost effective module compliant with the 10Gbase-T / 5Gbase-T / 2.5Gbase-T / 1000base-T standards as specified in IEEE 802.3-2002 and IEEE 802.3ab, which supporting 10 Gbps data- rate up to 100 meters reach over unshielded twisted-pair category cable. It uses the SFP's RX_LOS(must be pulled up on host) pin for link indication. If pull up or open SFP's TX_DISABLE pin, PHY IC be reset.

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

- 10 Gigabit Ethernet over Cat 6a/7 cable,
- 5000BASE-T over Cat 5e cable,
2500BASE-T over Cat 5e cable,
- 1.25 Gigabit Ethernet over Cat cable
1000M Ethernet over Cat 5e cable,
- 100M Ethernet over Cat 5e cable

Cable Length

Line Port	Cable	Reach	Host Port
10 Gb Base-T	CAT6A	30m	10G Base-R
5 Gb Base-T	CAT5E	50m	10G Base-R
2.5 Gb Base-T	CAT5E	50m	10G Base-R
1000 Mb Base-T	CAT5E	100m	10G Base-R
100 Mb Base-T	CAT5E	100m	10G Base-R

Ordering Information

Model	Descriptions
MD10G	10 GB Copper Ethernet SFP+ Module