

## TS-MC810SM: 10/100/1000M Media converter dual fiber single mode, SC fiber 80KM, 1550nm

### Overview:

TS-MC810SM 10/100/1000Mbps adaptive Gigabit Ethernet media converter adopts switching technology to fulfill media conversion. It complies with IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab standards. Presently it supports two types of media network connections: 10Base-T/100Base-TX/1000Base-T, and 1000Base-SX, inter-converting electrical signals of 10Base-T/100Base-TX/1000Base-T twisted pairs with optical signals of 1000Base-SX. It extends the transmission distance of network via copper cable to 80km via fiber optical cable. It supports transmission in single-mode dual fiber



### Features :

- According to IEEE802.3, IEEE802.3u, 10/100Base-TX, 100Base-FX standard.
- Support IEEE802.3X flow control function.
- Ethernet port support 10/100M, full-duplex and semi duplex auto-negotiation.
- Ethernet port Auto-MDI/MDIX auto flip, parallel/cross twisted-pair auto-negotiation.
- Support storage transmission and direct transmission.
- Ultra-low time-delay data transmission, completely transparent to the network protocol.
- Link failure alarm (LFP) function.
- Built-in 128K BRAM data buffer, support 1600 Bytes long data packet.
- 9/125um single mode fiber link transmission distance up to 80KM.
- Modulation configuration design, chassis support power supply for cassette media converter.
- Support hot-swappable, plug and play.
- 6LED indicator, dynamic feedback link connection state and fault detection.
- Built-in 8bit DIP switch, user's easily adjust the various of transmission and working mode (intelligence Type).
- Built-in lightning protection circuit, significantly reduce the damage caused by thunderbolt induction. Average working time more than 100,000 hours without failures.

### Spécifications:

| Parameter   | Specifications                                                                                                                            |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Access mode | 10/100/1000Mbps Gigabit Ethernet                                                                                                          |
| Standard    | IEEE802.3 10Base-T Ethernet, IEEE802.3u 100Base-TX Fast Ethernet, IEEE802.3ab 1000Base-T ,<br><br>IEEE802.3z 1000Base-SX Gigabit Ethernet |

|                                  |                                                                                                                                                                                                                |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wavelength (Monomode)            | 1550nm<br>Single mode: 8.3/125, 8.7/125, 9/125or10/125μm                                                                                                                                                       |
| Transmission distance (Monomode) | 80km                                                                                                                                                                                                           |
| Port                             | One RJ45 port:<br><br>Connecting with STP/UTP category-5 twisted pairs, EIA568A/B<br><br>One optical port:                                                                                                     |
| BER                              | <10 <sup>-9</sup>                                                                                                                                                                                              |
| MTBF                             | 100,000 hours                                                                                                                                                                                                  |
| LED indicator                    | POWER (power supply), FX LINK (optical link action)<br><br>TP LINK1000 (TP cable rate1000M), TP LINK100 (TP cable rate 100M)<br><br>TP ACT (TP cable packet forwarding action), FDX (TP full duplex operation) |
| Power supply                     | External: AC90~264V/DC100~380V input, 5V 2A output                                                                                                                                                             |
| Power consumption                | Max. 5W                                                                                                                                                                                                        |
| Operating temperature            | -10~55°C                                                                                                                                                                                                       |
| Operating humidity               | 5%~90%                                                                                                                                                                                                         |
| Maintaining temperature          | -40~70°C                                                                                                                                                                                                       |
| Maintaining humidity             | 5% ~ 90% non-condensing                                                                                                                                                                                        |
| Dimensions                       | 71mm (W)×94mm (D)×26 mm (H) (external power supply)                                                                                                                                                            |