# MCT-3002 Series Media Converter

**Link alarm**

Gigabit Ethernet 10/100/1000Base-T to 1000Base-X Media Converter

## Features

▪ **The World-wide Effortless and Reliable Media Converter**
The almost "set-it-and-forget-it" media converter is for minimizing network implementation and maintenance efforts

▪ **9K Bytes Jumbo Frame Size**
Support jumbo frame size 9K bytes to ease the network traffic loading and facilitate IPTV service

▪ **Link Alarm**
When UTP or fiber port is down during operation, the other port will be automatically turned off to alert the user

▪ **Fully Compatible with MCT-RACK-18 Series**
Space-saving and budget limited solution for MCT-RACK-18 series to mix installation with MCT series converter

## Target Applications

▪ FTTX implementations. Point-to-point fiber connection for long distance

## Description

Connection Technology Systems (CTS) MCT-3002 series media converter are the Gigabit Ethernet 10/100/1000 Base-T to 1000Base-X media converter. The MCT-3002-DR series media converter converts traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode, SC connector or bi-directional WDM, extending transmission distance for the deployment to the household, apartment or campus.
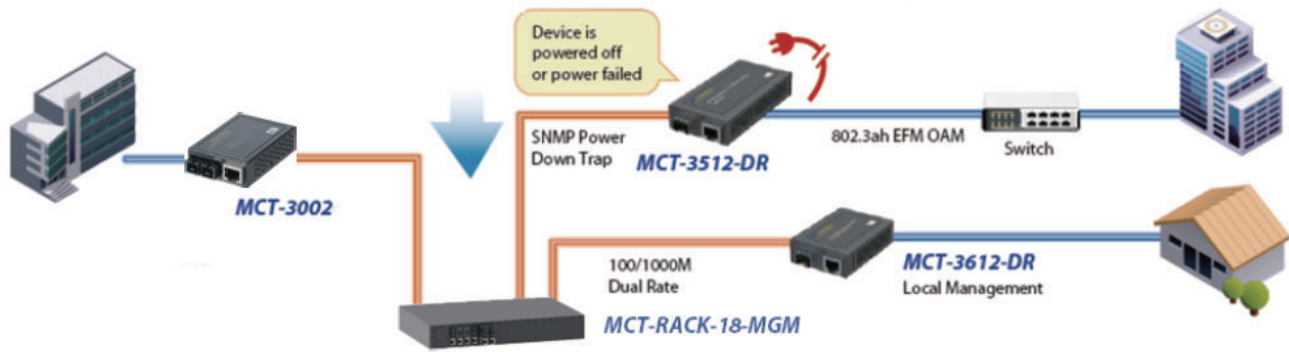
MCT-3002 series media converter is fully compliant with IEEE 802.3, 802.3u, 802.3ab & 802.3z standards. Besides, it is equipped with some switching features including store and forward.

The installation and operation are simple and straightforward. The operation status can be monitored through a set of diagnostic LED indicators on the front panel. It is especially designed for network operators, metro Ethernet providers, enterprises, SMB, who have the need of implementing fiber optical Ethernet networks over long distance, for FTTX solutions, and are looking for an effortless and reliable 1000Mbps media converter.

## Application Diagram



## Specification

### Interface
TP Port
10/100/1000Base-T RJ-45 x 1
F/O Port
1000Base-X x 1

### Standards
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX/FX
IEEE 802.3ab 1000Base-T
IEEE 802.3z 1000Base-X

### H/W Specification
Store and Forward Switching
Mechanism
Auto-Crossover for MDI/MDI-X in TP
Port
Auto-Negotiation in TP Port
Full/Half Duplex Mode Operation
Mac Address Table : 2K
Memory Buffer (Bytes) : 128K
Jumbo Frame (9K Bytes)
Slide-In Converter Center

### LED
Power, FDX, Status, Speed, F/O, TP

### Ethernet Features
Support 9K Bytes Jumbo Frame
Store and Forward Switching
Mechanism

### Other Features
Rear Panel DIP Switch
Support Link Alarm
Support Slide-In Converter Center

### Power Requiremrnt
Power Adaptor
- AC Input: 100VAC~240VAC
- Frequency Range: 50~60Hz
- DC Output: 3.3V
Power Consumption: 2.3W

### Environmental Condition
Operation: 0℃ ~ 50℃
Storage Temperature: -20℃ ~ 60℃
Humidity: 5% ~ 90%,
Non-Condensing

### Dimension & Weight
Size: 51 x 74 x 20 mm (WxDxH)
Weight: 0.1Kg

### EMC/Safety
FCC Class A, CE

# Order Information

**MCT-3002**

| MODEL | FIBER PORT | | | | | TP PORT | |
|---|---|---|---|---|---|---|---|
| | Speed | Fiber Type | Connector | Distance | Ports | Speed | Ports |
| MCT-3002BTFC | 1000Mbps | MM | SC | 550M | 1 | 10/100/1000Mbps | 1 |
| MCT-3002BTFC(SM-10/20/30/50/80) | 1000Mbps | SM | SC | 10/20/30/50/80KM | 1 | 10/100/1000Mbps | 1 |
| MCT-3002W2A(SM-10/20/40) | 1000Mbps | WDM | SC | 10/20/40KM | 1 | 10/100/1000Mbps | 1 |
| MCT-3002W2B(SM-10/20/40) | 1000Mbps | WDM | SC | 10/20/40KM | 1 | 10/100/1000Mbps | 1 |