

## MCT-3002 Series Media Converter



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

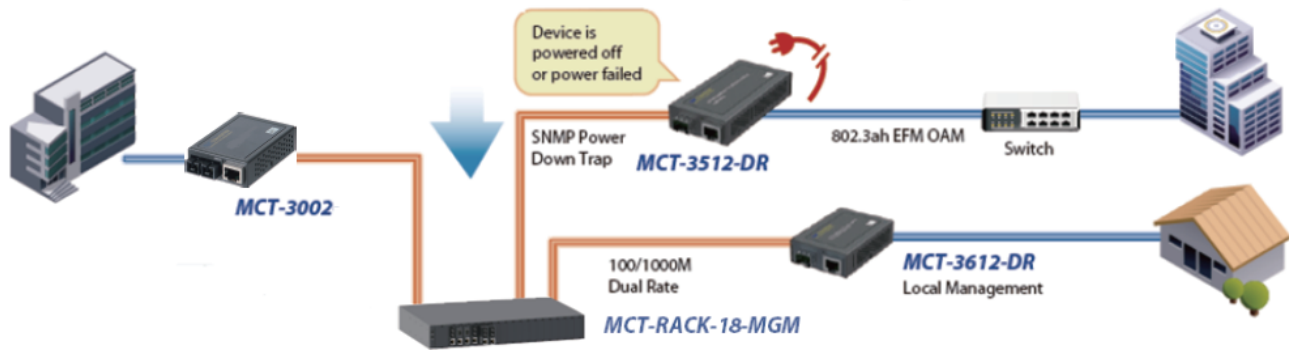
### Description

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 Requirement

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

### Environmental Condition

Operation: 0°C ~ 50°C  
Storage Temperature: -20°C ~ 60°C  
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	1000Mbps	SM	SC	10KM	1	10/100/1000Mbps	1