MCT-100 Series Media Converter

Fast Ethernet 10/100Base-TX to 100Base-FX
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.

Description

Connection Technology Systems (CTS) MCT-100 series media converter are the Fast Ethernet 10/100Base-TX to 100Base-FX media converter. The MCT-100 series media converter converts traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode, SC/ST connector, bi-directional WDM, or a SFP slot for pluggable fiber transceiver, extending transmission distance for the deployment to the household, apartment or campus.
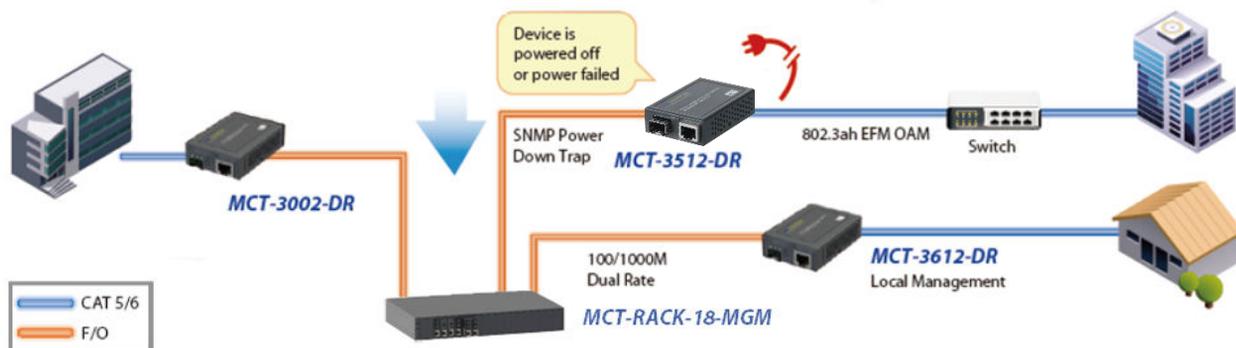
MCT-100 series media converter is fully compliant with IEEE 802.3, 802.3u standards. Besides, it is equipped with some switching features including store and forward.

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 100Mbps media converter.

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

Application Diagram

Specification

Interface
-TP Port:
  1 x 10/100Base-TX RJ-45
-F/O Port:
  1 x 100Base-FX

Standards
IEEE 802.3 10Base-T
IEEE 802.3u 100Base-TX/FX

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
Packet Buffer: 128K Bytes

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

Ethernet Features
Jumbo Frame: 9K Bytes

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: 2.1W

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 (W x D x H)
Weight: 0.1 Kg

EMC/Safety
FCC Class A, CE

Order Information

MCT-100

Model	Fiber Port					TP Port	
	Speed	Type	Connector	Distance	Port	Speed	Port
MCT-100BTFC	100Mbps	MM	SC	2KM	1	10/100Mbps	1
MCT-100BTFT	100Mbps	MM	ST	2KM	1	10/100Mbps	1
MCT-100BTFC(SM-30/50/80/100)	100Mbps	SM	SC	30/50/80/100KM	1	10/100Mbps	1
MCT-100W2A(SM-20/40)	100Mbps	WDM	SC	20/40KM	1	10/100Mbps	1
MCT-100W2B(SM-20/40)	100Mbps	WDM	SC	20/40KM	1	10/100Mbps	1
MCT-100SFP	100Mbps	SFP	-	-	1	10/100Mbps	1

Connection Technology Systems (CTS) reserves the right to change specification without prior notice.