

MCT-100 Series Media Converter



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

Features

- **9K Bytes Jumbo Frame Size**
Support Jumbo Frame size 9K bytes to ease the network traffic loading and facilitate IPTV service
- **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.
- **Link Alarm**
When UTP or fiber port is down during operation, the other port will be automatically turned off to alert the user

Target Application

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

Description

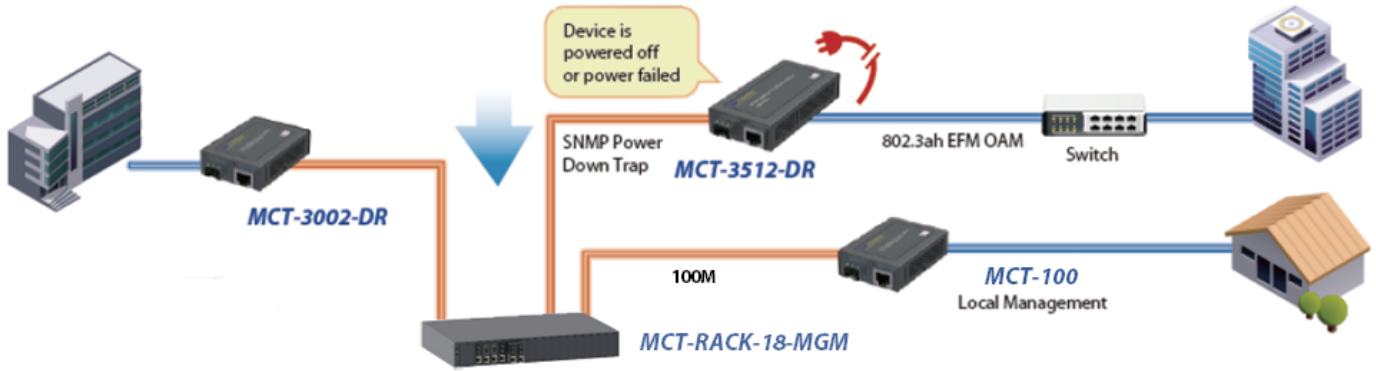
Connection Technology Systems (CTS) MCT-100 series media converter are the Fast Ethernet 10/100Base-T to 100Base-X media converter. The MCT-100 series media converter converts traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode, SC/ST/MR connector, or bi-directional wdm, 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.

With the built-in switch ASIC chip, it has turned MCT-100 series to become more like a two-port switch rather than like an ordinary converter. User can get many switch benefits such as segmentation, frame checking and error filtering. Additionally, Link Alarm feature enables administrator to monitor the fiber link more easily.

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.

Application Diagram



Specification

Interfaces

TP Port
10/100Base-T RJ45 x 1
F/O Port
100Base-X x 1

Standards

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

LED

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

H/W Specification

Store and Forward Switching Mechanism
Auto-Cross Over for MDI/MDI-X in TP port
Auto-Negotiation in TP Port
Full/Half Duplex Mode Operation
1K MAC Address Table
48K Bytes Memory Buffer
Link Alarm

Ethernet Features

Support 9K Bytes Jumbo Frame

Power Requirement

Power Adaptor
- AC Input: 100VAC~240VAC
- Frequency Range: 50~60Hz
- DC Output: 3.3V
Power Consumption: 1.9W

Environmental Condition

Operation: 0° ~ 50°C
Storage Temperature: -20° ~ 60°C
Humidity: 5% ~ 90% Non-Condensing

Dimension & Weight

Size: 51 x 74 x 20 mm
Weight: 0.1Kg

EMC/Safety

FCC Class A,CE

Order Information

MCT-100

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

SFP-20

MODEL	COPPER PORT					Temperature
	Speed	Type	Connector	Distance		
SFP-20TP	100Mbps	-	RJ-45	100M		0°C to 70°C

SFP-21

MODEL	FIBER PORT					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-21FC	100Mbps	MM	LC	2KM	1310nm	0°C to 70°C
SFP-21FC(SM-20/40/80)	100Mbps	SM	LC	20/40/80KM	1310nm/1310nm/1550nm	0°C to 70°C
SFP-21W2A(SM-20/40/80)	100Mbps	WDM	LC	20/40/80KM	TX:1310nm/1310nm/1490nm RX:1510nm/1510nm/1570nm	0°C to 70°C
SFP-21W2B(SM-20/40/80)	100Mbps	WDM	LC	20/40/80KM	TX:1510nm/1510nm/1570nm RX:1310nm/1310nm/1490nm	0°C to 70°C
SFP-21W2A(SM-20)SC	100Mbps	WDM	SC	20KM	TX:1310nm RX:1550nm	0°C to 70°C
SFP-21W2B(SM-20)SC	100Mbps	WDM	SC	20KM	TX:1550nm RX:1310nm	0°C to 70°C
SFP-21FC-C11	100Mbps	CWDM	LC	80KM	1470nm	0°C to 70°C
SFP-21FC-C12	100Mbps	CWDM	LC	80KM	1490nm	0°C to 70°C
SFP-21FC-C13	100Mbps	CWDM	LC	80KM	1510nm	0°C to 70°C
SFP-21FC-C14	100Mbps	CWDM	LC	80KM	1530nm	0°C to 70°C
SFP-21FC-C15	100Mbps	CWDM	LC	80KM	1550nm	0°C to 70°C
SFP-21FC-C16	100Mbps	CWDM	LC	80KM	1570nm	0°C to 70°C
SFP-21FC-C17	100Mbps	CWDM	LC	80KM	1590nm	0°C to 70°C
SFP-21FC-C18	100Mbps	CWDM	LC	80KM	1610nm	0°C to 70°C