

MCT-3002-DR Series Media Converter



Gigabit Ethernet 10/100/1000Base-T to
100/1000Base-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
- **Dual Rate**
Dual Rate media converter with auto-sensing function can automatically adjust to the speed of the slide-in fiber transceiver. This can save the cost when upgrading the device from 100Mbps to 1000Mbps

Target Applications

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

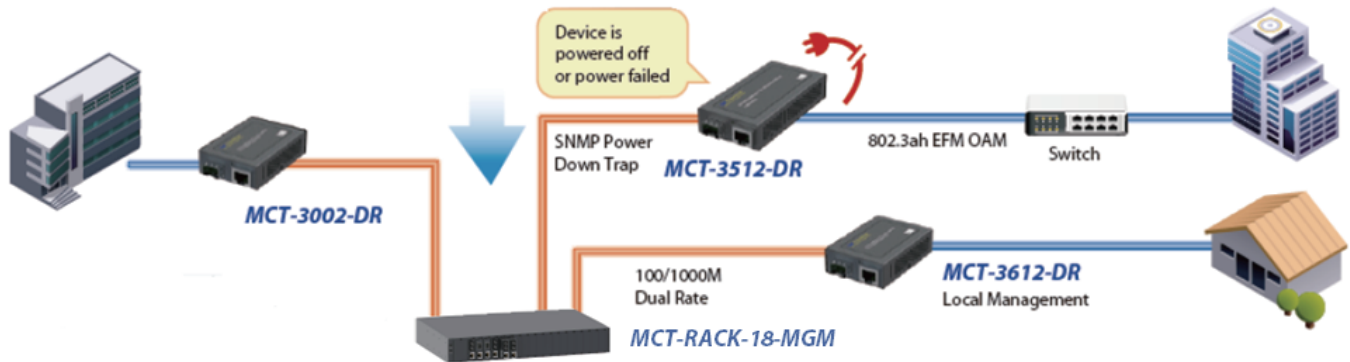
Description

Connection Technology Systems (CTS) MCT-3002-DR series media converter are the Gigabit Ethernet 10/100/1000 Base-T to 100/1000Base-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, bi-directional WDM, or a SFP slot for pluggable fiber transceiver, extending transmission distance for the deployment to the household, apartment or campus.

MCT-3002-DR 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
100/1000Base-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-DR

MODEL	FIBER PORT					TP PORT	
	Speed	Fiber Type	Connector	Distance	Ports	Speed	Ports
MCT-3002W2A(SM-10)-DR	100/1000Mbps	WDM	SC	10KM	1	10/100/1000Mbps	1
MCT-3002W2B(SM-10)-DR	100/1000Mbps	WDM	SC	10KM	1	10/100/1000Mbps	1
MCT-3002SFP-DR	100/1000Mbps	SFP	-	-	1	10/100/1000Mbps	1

SFP-31-DR

MODEL	FIBER PORT					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-31FC-DR	100Mbps/1000Mbps	MM	LC	2KM/550M	1310nm	0°C to 70°C
SFP-31FC(SM-10)-DR	100Mbps/1000Mbps	SM	LC	10KM	1310nm	0°C to 70°C
SFP-31W2A(SM-10)-DR	100Mbps/1000Mbps	WDM	LC	10KM	TX:1310nm RX:1550nm	0°C to 70°C
SFP-31W2B(SM-10/-)-DR	100Mbps/1000Mbps	WDM	LC	10KM	TX:1550nm RX:1310nm	0°C to 70°C

SFP-30

MODEL	COPPER PORT				
	Speed	Type	Connector	Distance	Temperature
SFP-30TP	1000Mbps	-	RJ-45	100M	0°C to 70°C

SFP-31

MODEL	FIBER PORT					
	Speed	Type	Connector	Distance	Wavelength	Temperature
SFP-31FC	1000Mbps	MM	LC	550M	850nm	0°C to 70°C
SFP-31FC(SM-10/20/40/50/80/100/120)	1000Mbps	SM	LC	10/20/40/50/80/100/120KM	1310nm/1310nm/1310nm/1550nm/1550nm/1550nm/1550nm	0°C to 70°C
SFP-31W2A(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1310nm/1310nm/1310nm/1510nm RX:1550nm/1550nm/1550nm/1570nm	0°C to 70°C
SFP-31W2B(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1550nm/1550nm/1550nm/1570nm RX:1310nm/1310nm/1310nm/1510nm	0°C to 70°C
SFP-31FC-C11	1000Mbps	CWDM	LC	80KM	1470nm	0°C to 70°C
SFP-31FC-C12	1000Mbps	CWDM	LC	80KM	1490nm	0°C to 70°C
SFP-31FC-C13	1000Mbps	CWDM	LC	80KM	1510nm	0°C to 70°C
SFP-31FC-C14	1000Mbps	CWDM	LC	80KM	1530nm	0°C to 70°C
SFP-31FC-C15	1000Mbps	CWDM	LC	80KM	1550nm	0°C to 70°C
SFP-31FC-C16	1000Mbps	CWDM	LC	80KM	1570nm	0°C to 70°C
SFP-31FC-C17	1000Mbps	CWDM	LC	80KM	1590nm	0°C to 70°C
SFP-31FC-C18	1000Mbps	CWDM	LC	80KM	1610nm	0°C to 70°C