

MCT-3512-DR Series Media Converter



10/100/1000BASE-T to 100/1000BASE-X
Compact Managed Media Converter

Features

- **9K Bytes Jumbo Frame Size**
Support Jumbo Frame size 9K bytes to ease the network traffic loading and facilitate IPTV services.
- **Local Management for Port Status and Configuration**
Both Local Module Control (Auto, Speed and Duplex) and Local Module Monitor (Link, Speed and Duplex) are available.
- **Fully Compatible with MCT-RACK-18 Series**
Budget limited solution for MCT-RACK-18 series to mix installation with CTS's non-management media converter.
- **Link Alarm**
When UTP or fiber port is down during operation, the other port will be automatically turned off to alert the user.
- **Dual Rate with Auto-Sensing Function**
Dual rate fiber transceiver with Auto-Sensing function can automatically adjust the transmission speed to save the cost when upgrading the device from 100Mbps to 1000Mbps.
- **The OAM Media Converter**
With IEEE 802.3ah standard, the connected media converter also supporting OAM feature can be monitored and configured via rack.

Target Application

- Managed media converter which required monitoring point-to-point connection for the deployment of FTTX applications

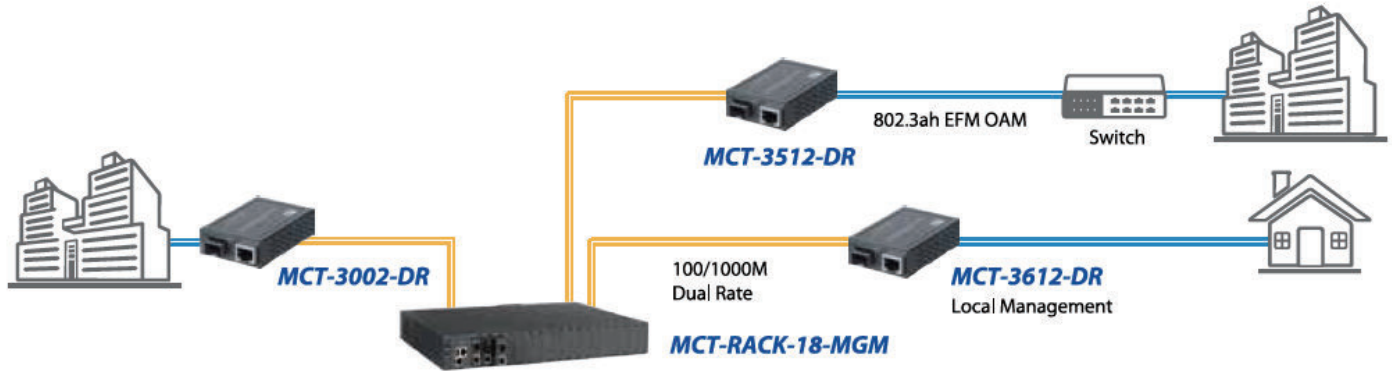
Description

Connection Technology Systems (CTS) MCT-3512-DR series media converter are the Gigabit Ethernet 10/100/1000Base-T to 100/1000Base-X media converter. MCT-3512-DR series media converter allows user to connect Ethernet twisted-pair RJ-45 cable into various fiber media including Multi-mode, Single-mode, Bi-directional WDM, or a SFP slot for pluggable fiber transceiver, extending transmission distance for the deployment to the household, apartment or campus.

MCT-3512-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 flow control and store and forward mechanism.

The installation and operation are quite 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

- F/O Port (Type):
1 x 100/1000Mbps (BTFC/W2X/SFP)
- TP Port (Type):
1 x 10/100/1000Mbps (RJ-45)

Standard

- IEEE802.3 10Base-T
- IEEE802.3u 100Base-TX/FX
- IEEE802.3ab 1000Base-T
- IEEE802.3ah OAM
- IEEE802.3z 1000Base-X

LED

- Power/Status, TX Link/Act, Speed, FDX, F/O Link/Act

H/W Specification

- MAC Address Table: 2K
- Memory Buffer: 128K Bytes
- Jumbo Frame: 9K Bytes
- Auto-Negotiation in TP Ports
- Full/Half Duplex Mode Operation

Forward/Filter Rate

- 10M: 14,880/14,880pps
- 100M: 148,800/148,800pps
- 1000M: 1,488,000/1,488,000pps

Ethernet Feature

- Standalone Configure by DIP
- Store and Forward Switching Mechanism
- Auto-Cross Over for MDI/MDIX in TP Ports
- Bandwidth Control
- Storm Control
- VLAN Transparency
- BPDU Transparency

Remote Management

- Module Reset/Power-Down
- IEEE 802.1Q tag VLAN, Q-in-Q
- Module Firmware Upgrade
- Module Configuration:
 - Half/Full Duplex
 - Fiber Speed Auto Sensing
 - Port Speed
 - Port Rate-Limit
 - Link Alarm
- Module Monitor:
 - Port Status
 - Port Traffic Counter
 - SFP/DMI Information

Power Requirement

- AC to DC Power Adaptor
- Input: 100~240VAC, 50/60Hz
- Output: 3.3VDC
- Power Consumption: 2.5W(Max.)

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
- Weight: 0.1Kg

EMC/Safety

- FCC Class A, CE

Order Information

MCT-3512 / MCT-3512-DR

MODEL	FIBER PORT					TP PORT	
	Speed	Fiber Type	Connector	Distance	Ports	Speed	Ports
MCT-3512BTFC	1000Mbps	MM	SC	550M	1	10/100/1000Mbps	1
MCT-3512BTFC(SM-10/20/30/50/80)	1000Mbps	SM	SC	10/20/30/50/80KM	1	10/100/1000Mbps	1
MCT-3512W2A(SM-10/20/40)	1000Mbps	WDM	SC	10/20/40KM	1	10/100/1000Mbps	1
MCT-3512W2B(SM-10/20/40)	1000Mbps	WDM	SC	10/20/40KM	1	10/100/1000Mbps	1
MCT-3512BTFC(SM-10)-DR	100/1000Mbps	SM	SC	10KM	1	10/100/1000Mbps	1
MCT-3512W2A(SM-10)-DR	100/1000Mbps	WDM	SC	10KM	1	10/100/1000Mbps	1
MCT-3512W2B(SM-10)-DR	100/1000Mbps	WDM	SC	10KM	1	10/100/1000Mbps	1
MCT-3512SFP-DR	100/1000Mbps	SFP	-	-	1	10/100/1000Mbps	1

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

SFP-31-DR

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