Innovation to Your Needs

MCT-3612-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.

Target Application

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

Description

Connection Technology Systems (CTS) MCT-3612-DR series media converter are the Gigabit Ethernet 10/100/1000Base-T to 100/1000Base-X media converter. MCT-3612-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-3612-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.

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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 IEEE802.3z 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

In-Rack 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: 2.1W(Max.)

Environmental Condition

Operation: $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$ Storage Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Humidity: $5\% \sim 90\%$ Non-Condensing

Dimension & Weight

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

EMC/Safety

FCC Class A, CE



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Order Information

MCT-3612 / MCT-3612-DR

MODEL	FIBER PORT							TP PORT	
MODEL	Speed (Mbps)	Type	Connector	Distance	Wavelength	Port	Speed (Mbps)	Port	
MCT-3612BTFC*	1000	MM	SC	550M	850nm	1	10/100/1000	1	
MCT-3612BTFC (SM-10/20/30/50/80)*	1000	SM	SC	10/20/30/50/ 80KM	1310nm/1310nm/1310nm/1550nm/ 1550nm	1	10/100/1000	1	
MCT-3612W2A(SM-10/20/40)*	1000	WDM	SC	10/20/40KM	TX: 1310nm/1310nm/1310nm RX: 1550nm/1550nm/1550nm	1	10/100/1000	1	
MCT-3612W2B(SM-10/20/40)*	1000	WDM	SC	10/20/40KM	TX: 1550nm/1550nm/1550nm RX: 1310nm/1310nm/1310nm	1	10/100/1000	1	
MCT-3612BTFC(SM-10)-DR	100/1000	SM	SC	10KM	1310nm	1	10/100/1000	1	
MCT-3612W2A(SM-10)-DR	100/1000	WDM	SC	10KM	TX: 1310nm RX: 1550nm	1	10/100/1000	1	
MCT-3612W2B(SM-10)-DR	100/1000	WDM	SC	10KM	TX: 1550nm RX: 1310nm	1	10/100/1000	1	
MCT-3612SFP-DR	100/1000	SFP	-	-	-	1	10/100/1000	1	

^{*}Coming Soon

SFP-31

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

SFP-31-DR

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