



MCT-3002

1 x 10/100/1000Base-T RJ-45 +

1 x 1000Base-X BTFX/W2X or

100/1000Base-X BTFX/W2X/SFP

Gigabit Ethernet Media Converter

Description

Connection Technology System (CTS) MCT-3002 model is a Gigabit Ethernet 10/100/1000Base-T to 1000Base-X or 100/1000Base-X media converter. MCT-3002 converts traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode, SC connector, bi-directional WDM, or an SFP slot for pluggable fiber transceiver, extending transmission distance for the deployment to the household, apartment, or campus.

The MCT-3002 converter is fully compliant with IEEE 802.3, 802.3u, 802.3ab, and 802.3z standards. Besides, it is equipped with the switching feature of the store and forward mechanism.

On the front panel is a set of diagnostic LED indicators, which allows the real-time monitoring of the media converter and therefore enables straightforward operation and installation. It is specially designed for whoever needs to implement fiber optical Ethernet networks over long distances. Network operators, metro Ethernet providers, enterprises, or SMB, can all find the MCT-3002 media converter fairly handy in deploying FTTX point-to-point solutions because of its effortless usage and reliable network connection.

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-12 & 18

Budget limited solution for MCT-RACK-12 or MCT-RACK-18 to mix installation with MCT series converter.

Target Applications

■ FTTX Implementations. Point-to-Point fiber connection for long distance.

Specification

Interface

- -TP Port:
- 1 x 10/100/1000Base-T RJ-45
- -F/O Port:
- 1 x 1000Base-X BTFX/W2X

(on MCT-3002 model)

1 x 100/1000Base-X BTFX/W2X/SFP

(on MCT-3002-DR model)

Standards

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

(on MCT-3002-DR model)

- -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
- -9K Bytes Jumbo Frame
- -Slide-in Converter Center

LED

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

- * Under development function ** Future feature

■ Ethernet Features

- -9K Bytes Jumbo Frame
- -Store and Forward Switching Mechanism

Other Features

- -Rear Panel DIP Switch
- -Support Slide-in Converter Center
- -Support Link Alarm

Power Requirement

- -Power Input (Main body): 5 VDC
- -Power Adaptor (Including in package)

Input: 100~240 VAC, 50~60Hz

Output: 5 VDC

-Max. Power Consumption: 3W (10.23 BTU/h)

■ 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 20mm (W x D x H)

Weight: 0.1kg

Standards & Certifications

CE/FCC Class A

- -Safety: EN/IEC 62368-1
- -EMC: EN 55032 / EN 55035
- -ESD

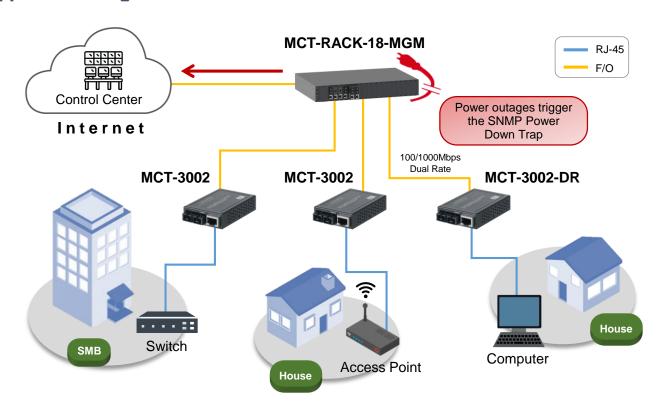
Air Discharge: +/-8kV Contact Discharge: +/-4kV

-EFT

DC Input: +/-0.5kV -Surge Protection: +/-1kV

UKCA/RCM RoHS 2.0

Application Diagram



Order Information

MCT-3002

			TP Port				
Model	Speed (Mbps)	Туре	Connector	Distance	Port	Speed (Mbps)	Port
MCT-3002BTFC	1000	MM	SC	550M	1	10/100/1000	1
MCT-3002BTFC(SM-10/20/30)	1000	SM	SC	10/20/30KM	1	10/100/1000	1
MCT-3002W2A(SM-10/20/40)	1000	WDM	SC	10/20/40KM	1	10/100/1000	1
MCT-3002W2B(SM-10/20/40)	1000	WDM	SC	10/20/40KM	1	10/100/1000	1

MCT-3002-DR

			TP Port				
Model	Speed (Mbps)	Туре	Connector	Distance	Port	Speed (Mbps)	Port
MCT-3002BTFC(SM-10)-DR	100/1000	SM	SC	10KM	1	10/100/1000	1
MCT-3002W2A(SM-10)-DR	100/1000	WDM	SC	10KM	1	10/100/1000	1
MCT-3002W2B(SM-10)-DR	100/1000	WDM	SC	10KM	1	10/100/1000	1
MCT-3002SFP-DR	100/1000	SFP	-	-	1	10/100/1000	1

Accessory

SFP-31

	Fiber Port Fiber Port								
Model	Speed (Mbps)	Туре	Connector Distance		Wavelength	Temperature			
SFP-31FC	1000	MM	LC	550M	850nm	0°C~70°C			
SFP-31FC(SM-10/20/40)	1000	SM	LC	10/20/40KM	1310/1310nm	0°C~70°C			
SED 341M/2A/SM 40/20/40\	1000	WDM	LC	10/20/40KM	TX: 1310/1310/1310nm	0°C~70°C			
SFP-31W2A(SM-10/20/40)	1000	VVDIVI	LC	10/20/40KM	RX: 1550/1550/1550nm	0 C~70 C			
SED 24/MOD/SM 40/20/40\	1000	WDM	1.0	10/20/40KM	TX: 1550/1550/1550nm	0°C~70°C			
SFP-31W2B(SM-10/20/40)	1000	VVUIVI	LC		RX: 1310/1310/1310nm				

SFP-31-DR

	Fiber Port Fiber Port								
Model	Speed (Mbps)	Туре	Connector	Distance	Wavelength	Temperature			
SFP-31FC-DR	100/1000	ММ	LC	550M/2KM	1310nm	0°C~70°C			
SFP-31FC(SM-10)-DR	100/1000	SM	LC	10KM	1310nm	0°C~70°C			
CED 24\M2A/CM 40/20\ DB	100/1000	WDM	LC	10/20KM	TX: 1310/1310nm	0°C~70°C			
SFP-31W2A(SM-10/20)-DR	100/1000	VVDIVI	LC		RX: 1550/1550nm				
SED 31\M/2B/SM 10/20\ DB	SFP-31W2B(SM-10/20)-DR 100/1000 WDM LC 10/20KM	10/20KM	TX: 1550/1550nm	0°C 70°C					
3FF-3 TVV2B(SIVI-TU/2U)-DR		TUZUKIVI	RX: 1310/1310nm	0°C~70°C					

SFP-30

	Copper Port Copper Port							
Model	Speed (Mbps)	Туре	Connector	Distance	Wavelength	Temperature		
SFP-30TP	1000	-	RJ-45	100M	-	0°C~70°C		

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