

## CVT-100 Series Media Converter



Fast Ethernet 10/100BASE-TX to 100BASE-FX  
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 CVT-RACK-16**  
Budget limited solution for CVT-RACK-16 to mix installation with CTS’s non-managed converter.

### Target Application

- FTTX implementations, point-to-point fiber connection for long distance.

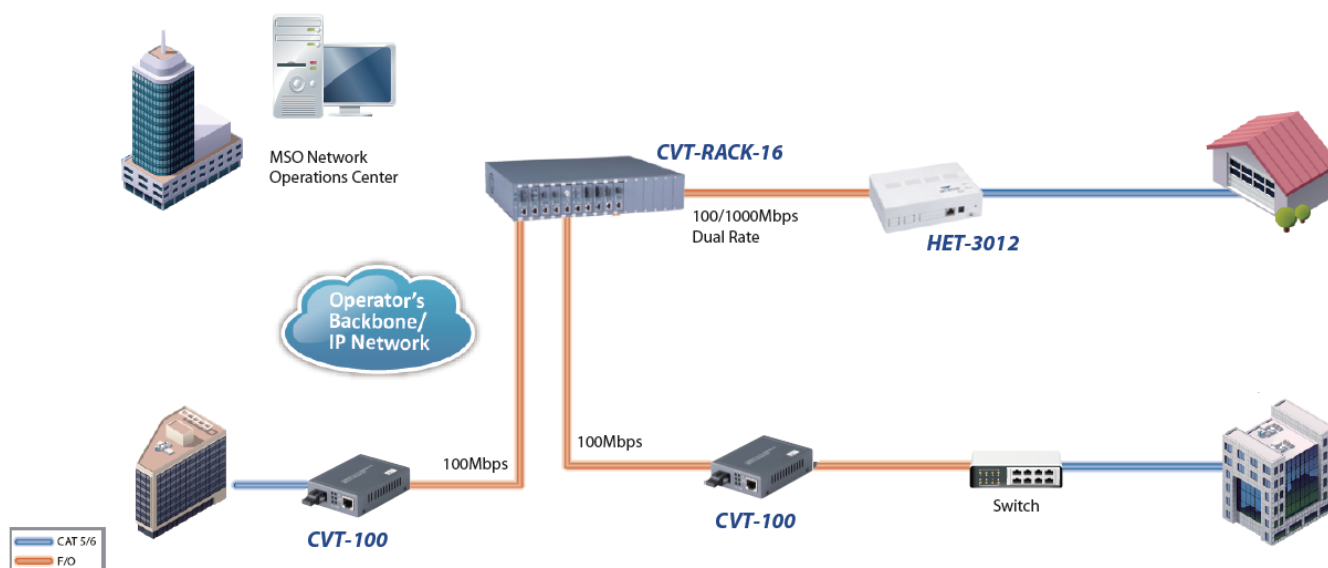
### Description

Connection Technology System (CTS) CVT-100 series media converter are the Fast Ethernet 10/100Base-TX to 100Base-FX media converter. The CVT-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. The traditional transmission distance of 100m over RJ-45 copper can be greatly extended via fiber.

CVT-100 series media converter is fully compliant with IEEE 802.3 & 802.3u standards. With the built-in switch ASIC chip, it has turned CVT-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

### Interface

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

### Standard

IEEE802.3 10Base-T  
IEEE802.3u 100Base-TX/FX  
IEEE802.3x Flow Control

### LED

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

### H/W Specification

Store and Forward Switching Mechanism  
Auto-Cross Over for MDI/MDI-X in TP Port  
Auto-Negotiation in TP Port

### Ethernet Feature

Support 9K Bytes Jumbo Frame  
Support Flow Control

### Other Feature

Rare Panel DIP Switch  
Support Slide-In Converter Center

### Power Requirement

Power Adaptor  
- AC Input: 100VAC~240VAC  
- Frequency Range: 50~60Hz  
- DC Output: 5V  
Power Consumption: 2.5W

### Environmental Condition

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

### Dimension & Weight

Size: 71 x 94 x 26mm (WxDxH)  
Weight: 0.6Kg

### EMC/Safety

FCC Class A, CE

## Order Information

### CVT-100

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