

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 Applications

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

Description

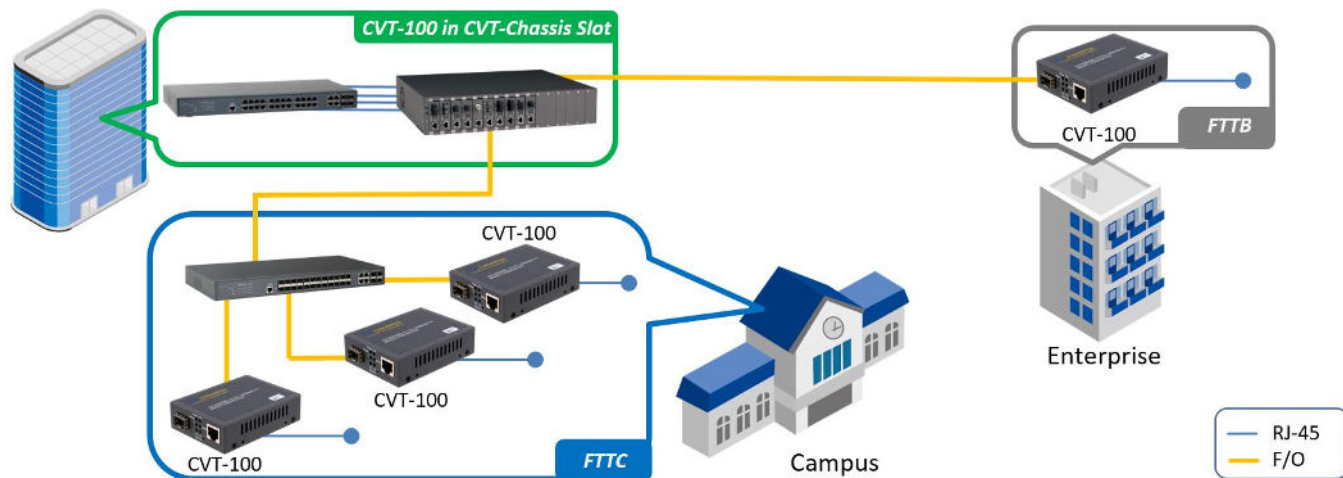
Connection Technology System (CTS) CVT-100 series media converter are the Fast Ethernet 10/100Base-TX to 100Base-FX media converter. The CVT-100 series media converter converts traditional twisted-pair RJ-45 cable into various fiber media including multi-mode, single-mode, SC/ST/MR connector, or bi-directional WDM. The traditional transmission distance of 100 meter 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. 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 straight forward. 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

Service Provider



Specification

Interface

- TP Port:
1 x 10/100Base-TX RJ-45
- F/O Port:
1 x 100Base-FX

Standards

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

H/W Specification

- Store and Forward Switching Mechanism
- Auto-crossover for MDI/MDI-X in TP port
- Auto-negotiation in TP Ports
- Full/Half Duplex Mode Operation
- Mac Address Table: 2K
- Packet Buffer: 128K Bytes

LED

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

Ethernet Features

- Jumbo Frame: 9K Bytes

Network Management

- 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: 5V
- Power Consumption: 2.2W

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 26 mm (W x D x H)
- Weight: 0.2 Kg

EMC/Safety

- FCC Class A, CE

Order Information

CVT-100

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