CVT-100

1 x 10/100Base-TX RJ-45 +

1 x 100Base-FX Fiber Port

Standalone Fast Ethernet Media Converter

Description

Connection Technology System (CTS) CVT-100 series media converter is 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 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.

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 CVT-100 series media converter fairly handy in deploying FTTX point-to-point solutions because of its effortless usage and reliable network connection.

■ **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 CVT series converter.

Target Applications

■ **FTTX Metro Ethernet Implementations.**

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

■ 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 Port
-Full/Half Duplex Mode Operation
-MAC Address Table: 2K
-Memory Buffer (Bytes): 64K
-9K Bytes Jumbo Frame

■ LED
Power, FDX, Status, Speed,
F/O Link/Act, TX Link/Act

■ Ethernet Features
-9K Bytes Jumbo Frame

■ Network Management
-Rear Panel DIP Switch:
 Auto-Negotiation/Manual for TP
 Full/Half Duplex for TP
 Enable/Disable Link Alarm
-Support Slide-in Converter Center

■ Power Requirement
-Power Adaptor
 AC Input: 100VAC~240VAC
 Frequency Range: 50~60Hz
 DC Output: 5V, 2A
-Power Consumption: 1.5W Max.

■ 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 (W x D x H)
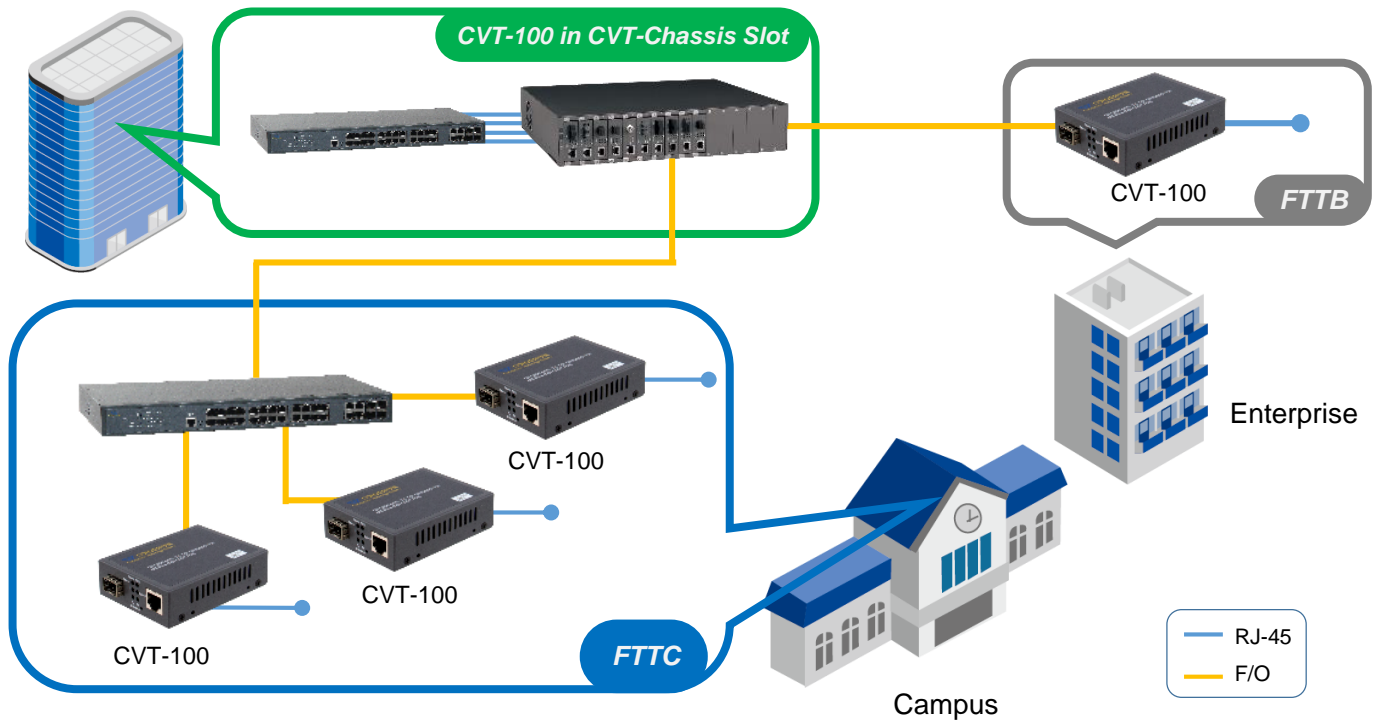Weight: 0.2kg

■ EMC/Safety
FCC Class A, CE

* Under development function
** Future feature

Application Diagram

Order Information

CVT-100

Model	Fiber Port					TP Port	
	Speed (Mbps)	Type	Connector	Distance	Port	Speed (Mbps)	Port
CVT-100BTFC	100	MM	SC	2KM	1	10/100	1
CVT-100BTFT	100	MM	ST	2KM	1	10/100	1
CVT-100BTFC(SM-30)	100	SM	SC	30KM	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

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

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