CVT-100 Series Media Converter

10/100BASE-TX to 100BASE-FX Standalone 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.

Description

Connection Technology Systems (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 RJ45 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 RJ45 copper can be extended from 2km to 100km over 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.

Target Applications

- FTTX implementations. Point-to-point fiber connection for long distance.
**Order Information**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FIBER PORT</th>
<th>TP PORT</th>
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<tbody>
<tr>
<td></td>
<td>Speed</td>
<td>Fiber Type</td>
</tr>
<tr>
<td>CVT-100BTF</td>
<td>100</td>
<td>MM</td>
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<tr>
<td>CVT-100BTF-T</td>
<td>100</td>
<td>MM</td>
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<tr>
<td>CVT-100BTF(SC-30/50/80/100)</td>
<td>100</td>
<td>MM</td>
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<tr>
<td>CVT-100BTFMR</td>
<td>100</td>
<td>MM</td>
</tr>
<tr>
<td>CVT-100W2A(SC-20/40)</td>
<td>100</td>
<td>WDM</td>
</tr>
<tr>
<td>CVT-100W2B(SC-20/40)</td>
<td>100</td>
<td>WDM</td>
</tr>
</tbody>
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**Application Diagram**

- **TP Port**
  - 10/100Base-TX RJ45 x 1
  - F/O Port
  - 100Base-FX x 1

- **Standards**
  - IEEE 802.3 10Base-T
  - IEEE 802.3u 100Base-TX/FX
  - IEEE 802.3x Flow Control

- **H/W Specification**
  - Store and forward switching mechanism
  - Auto-Cross over for MDI/MDI-X in TP port
  - Auto-Negotiation in TP port
  - Full/Half Duplex Mode Operation

- **Ethernet Features**
  - Support 9K Bytes jumbo frame
  - Support Flow Control

- **Other Features**
  - Rare Panel DIP Switch
  - Support slide-in Converter Center

- **Power Requirement**
  - Power adaptor
    - AC input: 100VAC~240VAC
    - Frequency range: 50~60Hz
    - DC output: 5V, 1.6A
  - Power Consumption: 2.5W

- **Environmental Condition**
  - Operation: 0° ~ 50°C
  - Storage Temperature: -20° ~ 60°C
  - Humidity: 5% ~ 90%, non-condensing

- **Dimension & Weight**
  - Size: 71 x 94 x 26 mm (WxDxH)
  - Shipping Weight: 0.6KG

- **EMC/Safety**
  - FCC Class A, CE
  - * For further reports, please contact