CVT-5002SFP+ Series Media Converter

10GBase-R Fiber Optics 10G SFP+ to 10G SFP+ Standalone Media Converter

Features

- Support 10 Gigabit Fiber to Fiber full duplex conversion
- Comply with IEEE 802.3ae 10GBASE-R
- LED Indicators for link and power status
- Support 3R (Re-amplifying, Re-shaping, Re-timing) optical signal regeneration
- Fully Compatible with CTS CVT-RACK-16 Series

Description

Connection Technology Systems (CTS) CVT-5002SFP+ series is a two-port pluggable 10 Gigabit fiber-to-fiber media converter for a number of dissimilar 10 Gigabit fiber devices. The CVT-5002SFP+ series media converter supports the media conversion at 10 Gigabit over link distance up to 300 meters with 10GBase-SR multi-mode fiber or 10GBase-LR single-mode fiber standards. To Deploy the bidirectional media converter, the CVT-5002SFP+ media converter is required to individually connect 10Gbase-SR multi-mode device or 10Gbase-LR single-mode device, or in pairs at each end of long-distance fiber links.

The CVT-5002SFP+ series media converter supports SFP+ to SFP+ fiber connection. The data transfer is protocol transparent and done by 3R (Re-amplifying, Re-shaping, Re-timing) regeneration between the different fiber optics devices. With the forwarding capacity at the full wire speed, the CVT-5002SFP+ series media converter is the most optimized and simplest solution for dispersed network that media conversion is required between multi-mode fiber segments separated due to geographical limit.

Target Applications

- Point-to-point fiber connection and deployment for long distance which requires reliable and stable link over 10Gigabit devices
Application Diagram

- 10G Switch
  - LR: Single-Mode
  - LR: Single-Mode
  - LR: Single-Mode

- CVT-5002SFP+
  - Single-Mode

- CVT-RACK-16
  - SR: Multi-Mode

- CWDM MUX/DeMUX
  - LR: Single-Mode
  - LR: Single-Mode

- 10G Switch
  - LR: Multi-Mode

- CWDM MUX/DeMUX
  - SR: Multi-Mode

Fiber

LR Stands for “Long Reach”
SR Stands for “Short Reach”

Specification

**Interface**
- F/O
- 10GBase-R SFP+ x 2

**Standards**
- IEEE 802.3ae 10GBase-R
- Comply with SFF-8431

**LED**
- Power, F/O1, F/O2

**Power Requirement**
- AC/DC Power adaptor
  - AC input: 100VAC~240VAC
  - Frequency range: 50~60Hz
  - DC output: 5V, 2A
  - Power Consumption: DC 4.3W; AC 5.8W

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

**Dimension & Weight**
- Size: 71x94x26 mm (WxDxH)
- Shipping Weight: 0.6kg

**EMC/Safety**
- FCC Part 15 Class A, CE
  * For further reports, please contact us for update

www.ctsystem.com
## Order Information

**CVT-5002SFP+ Series**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FIBER PORT</th>
<th>TP PORT</th>
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<tbody>
<tr>
<td>CVT-5002SFP+</td>
<td>10Gbps</td>
<td>SFP+</td>
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<tr>
<td></td>
<td></td>
<td>Distance</td>
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<tr>
<td></td>
<td></td>
<td>300M/10KM</td>
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### SFP-51 Series

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<thead>
<tr>
<th>Model</th>
<th>Speed</th>
<th>Type</th>
<th>Connector</th>
<th>Distance</th>
<th>Wavelength</th>
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<td>MM</td>
<td>LC</td>
<td>300M</td>
<td>850nm</td>
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<tr>
<td>SFP-51FC(SM-10)</td>
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<td>SM</td>
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<td>1310nm</td>
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<tr>
<td>SFP-51FC(SM-40)</td>
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<td>LC</td>
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<td>1550nm</td>
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<td>WDM</td>
<td>LC</td>
<td>10KM</td>
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<tr>
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<td>WDM</td>
<td>LC</td>
<td>10KM</td>
<td>TX:1270nm RX:1330nm</td>
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