

# CVT-3112 Series Media Converter



10/100/1000BASE-T to 1000BASE-X Standalone Managed Media Converter

## Features

- **The World-wide smallest SNMP Managed Media Converter**  
The smallest media converter with SNMP managed solution in the world-wide
- **9K Bytes Jumbo Frame Size**  
Support jumbo frame size 9K bytes to ease the network traffic loading and facilitate IPTV service
- **ISP Ethernet Tag Type**  
With ISP Ethernet Tag Type, the service providers can transport the encapsulated traffic for different customers without security risk
- **Power Down Trap**  
Built-in CTS unique SNMP power down trap function to rapidly identify network fault due to power outage and reduce truck rolls to save OPEX for operators or service providers
- **Fully Compatible with CVT-RACK-16**  
Budget limited solution for CVT-Rack-16 to mix installation with CTS's Non-managed converter

## Target Applications

- **SNMP managed media converter for Point-to-Point connection of FTTX deployment applications**

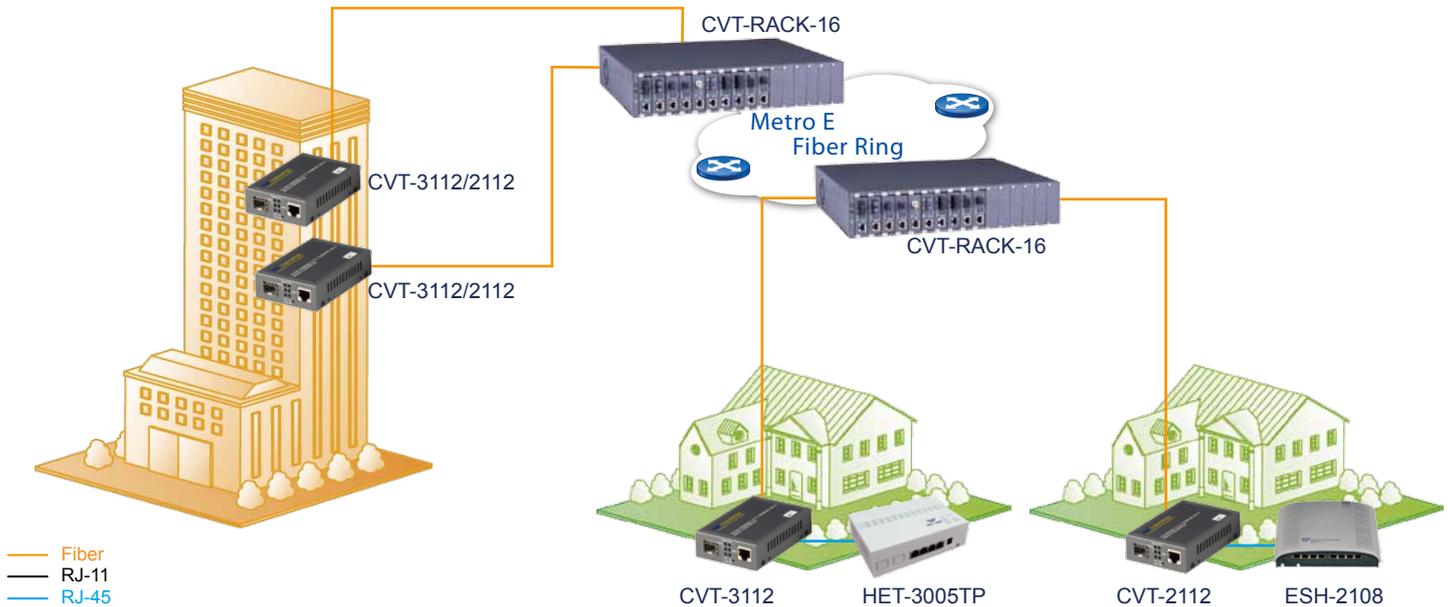
## Description

Connection Technology Systems (CTS) CVT-3112 series are Gigabit Ethernet 10/100/1000Base-T to 1000Base-X media converter which is designed to fulfill the emerging deployment needs of fiber Ethernet network for operators and service providers with SNMP managed functionality. When CVT-3112 is deployed at customer premises, the media converter can be fully managed by the network equipment in the Central Office site by popular SNMP based network management server (NMS). By leveraging the benefits of CTS unique SNMP based power down trap feature, the CVT-3112 is able to send SNMP based trap message to NMS immediately when detects power failure on converter at customer site. It can significantly reduce truck rolls and save the operational cost (OPEX) for operators or service providers.

The CVT-3112 series media converter allow the user to connect Ethernet twisted-pair network to fiber Ethernet network easily and extend the transmission distance from 10km to 80km maximized. The optical interface of media converter provides a wide range of options to fit the practically need of fiber network deployment for the customer included multi-mode, single-mode and bi-directional transmission over just one single fiber as well as the SFP slot for pluggable fiber transceiver.

The CVT-3112 series media converter is fully compliant with IEEE802.3/802.3u/802.3ab & 802.3z standards. The installation and operation procedures for CVT-3112 are quite simple and straight forward. The user can simply configure the built in popular layer 2 and managed features by using commonly Web management UI to monitor the operation status easily in real time.

## Application Diagram



## Specification

### Interface

TP Port  
10/100/1000Base-T RJ45 x 1  
F/O Port  
1000Base-X x 1

### Standards

IEEE 802.3 10Base-T  
IEEE 802.3u 100Base-TX/FX  
IEEE 802.3ab 1000Base-T  
IEEE 802.3z 1000Base-X  
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  
1K MAC address table  
32K bytes memory buffer  
Link Alarm

### LED

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

### Ethernet Features

Support 9K Bytes jumbo frame  
Support Flow Control  
IEEE 802.1Q tag VLAN  
Q-in-Q VLAN configuration  
ISP Ethernet Tag Type  
Bandwidth Control

### Network Management

Web UI management  
SNMP Management  
Support SNMP v1/v2c  
Support DHCP client  
Support private, RFC-1213, RMON  
(group 1, 2, 3, 9) MIBs  
HTTP firmware upgrade  
Support power down trap  
SFF-8472 Diagnostic Monitoring Interface  
(CVT-3112SFP only)

### Power Requirement

Power adaptor  
- AC input: 100VAC~240VAC  
- Frequency range: 50~60Hz  
- DC output: 5V, 1A  
Power consumption: 3.4W

### 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 us for update

## Order Information

CVT-3112 Series

MODEL	FIBER PORT					TP PORT	
	Speed	Fiber Type	Connector	Distance	Ports	Speed	Ports
CVT-3112BTFC	1000	MM	SC	550M	1	10/100/1000	1
CVT-3112BTFC(SM-10/20/30/50/80)	1000	SM	SC	10/20/30/50/80 KM	1	10/100/1000	1
CVT-3112W2A(SM-10/20/40)	1000	WDM	SC	10/20/40KM	1	10/100/1000	1
CVT-3112W2B(SM-10/20/40)	1000	WDM	SC	10/20/40KM	1	10/100/1000	1
CVT-3112SFP	1000	SFP	-	-	1	10/100/1000	1

SFP-31 Series

MODEL	FIBER PORT				
	Speed	Type	Connector	Distance	Wavelength
SFP-31FC	1000Mbps	MM	LC	550M	850nm
SFP-31FC(SM-10/20/40/50/80/120)	1000Mbps	SM	LC	10/20/40/50/80/120KM	1310nm/1310nm/1310nm/1550nm/1550nm/1550nm
SFP-31W2A(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1310nm/1310nm/1310nm/1490nm RX:1550nm/1550nm/1550nm/1570nm
SFP-31W2B(SM-10/20/40/80)	1000Mbps	WDM	LC	10/20/40/80KM	TX:1550nm/1550nm/1550nm/1570nm RX:1310nm/1310nm/1310nm/1490nm
SFP-31FC-C09	1000Mbps	CWDM	LC	80KM	1430nm
SFP-31FC-C10	1000Mbps	CWDM	LC	80KM	1450nm
SFP-31FC-C11	1000Mbps	CWDM	LC	80KM	1470nm
SFP-31FC-C12	1000Mbps	CWDM	LC	80KM	1490nm
SFP-31FC-C13	1000Mbps	CWDM	LC	80KM	1510nm
SFP-31FC-C14	1000Mbps	CWDM	LC	80KM	1530nm
SFP-31FC-C15	1000Mbps	CWDM	LC	80KM	1550nm
SFP-31FC-C16	1000Mbps	CWDM	LC	80KM	1570nm
SFP-31FC-C17	1000Mbps	CWDM	LC	80KM	1590nm
SFP-31FC-C18	1000Mbps	CWDM	LC	80KM	1610nm