CVT-3112 Series Media Converter

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

Link alarm

Power down trap

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

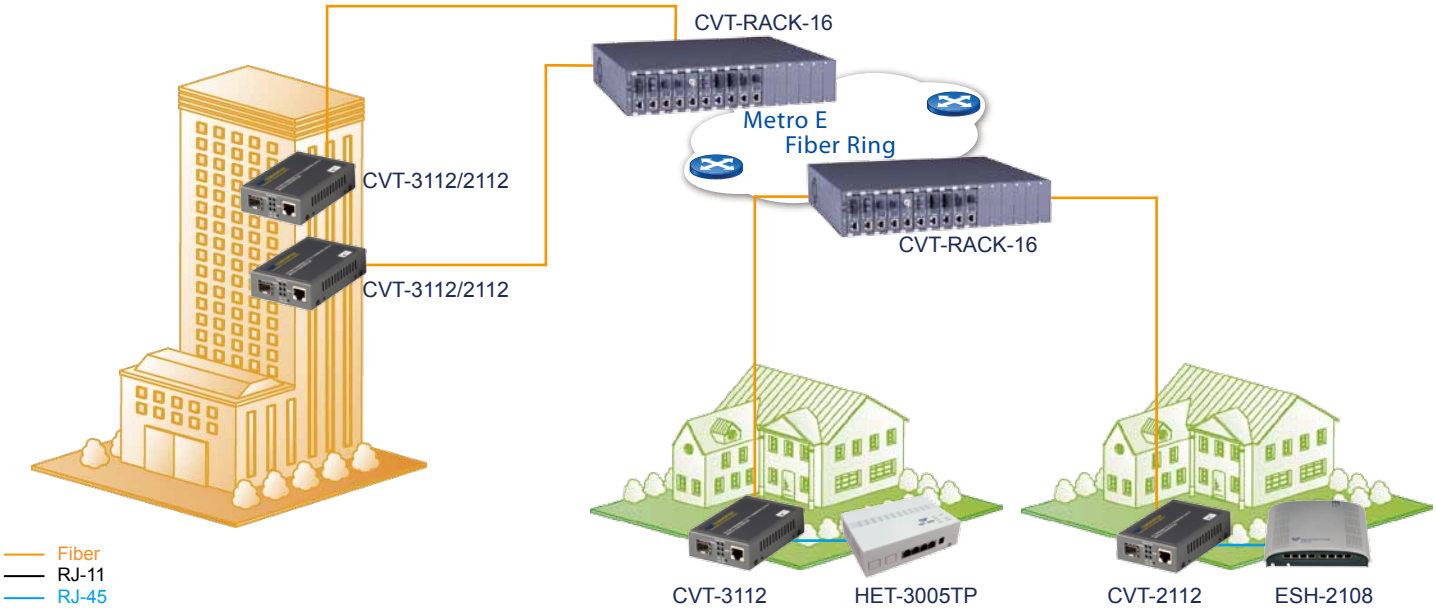
Description

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℃
Storage Temperature: -20° ~ 60℃
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