

CVT-2512 Series Media Converter



10/100BASE-TX to 100BASE-FX Standalone
Managed Media Converter with 802.3ah
OAM compliance

Features

- **The World-wide OAM Managed Media Converter**
The media converter with SNMP and IEEE 802.3ah OAM 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
- **Selectable ISP Ethernet Tag Type**
With selectable ISP Ethernet Tag Type, the service providers can transport the encapsulated traffic for different customers without security risk
- **Power Down Trap**
The media converter can concurrently deliver popular SNMP trap message and OAM dying gasp to rapidly identify network fault due to power outage and reduce truck rolls to save OPEX for operators and 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 Application

- **Managed media converter which required IEEE 802.3ah OAM to monitor point-to-point connection for the deployment of FTTX applications**

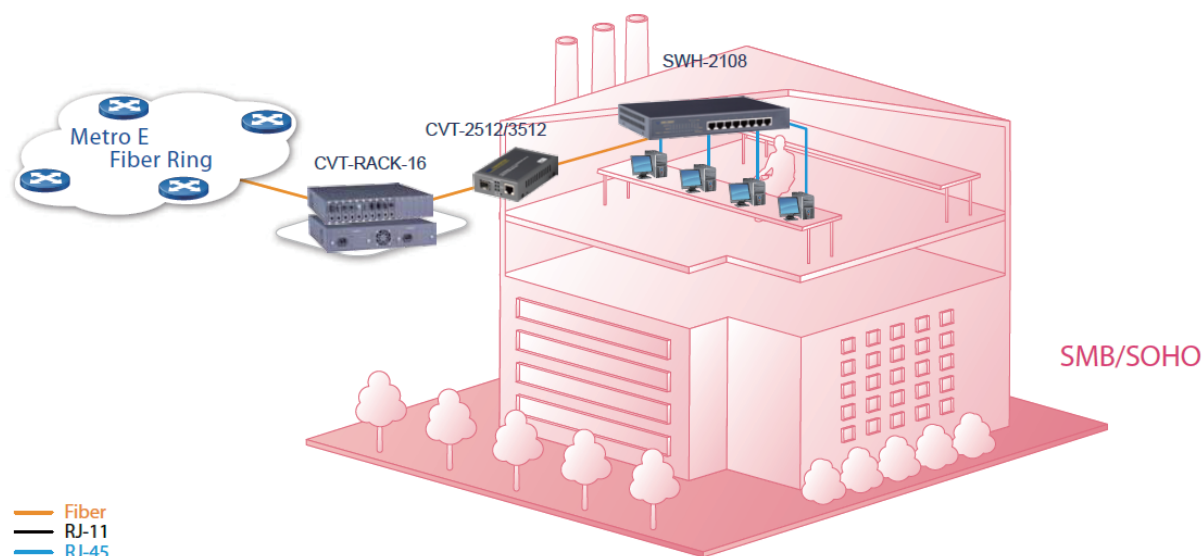
Description

Connection Technology Systems (CTS) CVT-2512 series are Fast Ethernet 10/100Base-TX to 100Base-FX media converter which is designed to fulfill the emerging deployment needs of fiber Ethernet network for operators and service providers with SNMP and IEEE802.3ah OAM managed functionality. When CVT-2512 is deployed at customer premises, the media converter can be fully managed by the network equipment in the Central Office site which support IEEE 802.3ah OAM standard as well. By leveraging the benefits of IEEE802.3ah OAM, the CVT-2512 media converter is a cost effectively solution to save capital expenditure (CAPEX) and enhance the reliability of point-to-point connection as well as offer the robust fault managed capability to significantly reduce the operational expenditure (OPEX) for operators and service providers.

The CVT-2512 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 100km 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-2512 series media converter is fully compliant with IEEE802.3/802.3u standards. The installation and operation procedures for CVT-2512 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

- F/O Port (Type):
1 x 100Mbps (BTFX/W2X)
- TP Port (Type):
1 x 10/100Mbps (RJ-45)

Standard

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX/FX
- IEEE 802.3x Flow Control
- IEEE 802.3ah EFM

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
- Selectable 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-2512SFP only)

Power Requirement

- Power adaptor
- AC input: 100VAC~240VAC
- Frequency range: 50~60Hz
- DC output: 5V
- Power consumption: 2.9W

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)
- Weight: 0.6KG

EMC/Safety

- FCC Class A,
CE

Order Information

CVT-2512

MODEL	FIBER PORT					TP PORT	
	Speed (Mbps)	Type	Connector	Distance	Port	Speed (Mbps)	Port
CVT-2512BTFC	100	MM	SC	2KM	1	10/100	1
CVT-2512BTFT	100	MM	ST	2KM	1	10/100	1
CVT-2512BTFC (SM-30/50/80/100)	100	SM	SC	30/50/80/100KM	1	10/100	1
CVT-2512W2A(SM-20/40)	100	WDM	SC	20/40KM	1	10/100	1
CVT-2512W2B(SM-20/40)	100	WDM	SC	20/40KM	1	10/100	1
CVT-2512SFP	100	SFP	-	-	1	10/100	1

SFP-21

MODEL	FIBER PORT					
	Speed (Mbps)	Type	Connector	Distance	Wavelength	Temperature
SFP-21FC	100	MM	LC	2KM	1310nm	0°C to 70°C
SFP-21FC(SM-20/30/50/80)	100	SM	LC	20/30/50/80KM	1310nm/1310nm/1310nm/1550nm	0°C to 70°C
SFP-21W2A(SM-20/40/80)	100	WDM	LC	20/40/80KM	TX:1310nm/1310nm/1490nm	0°C to 70°C
					RX:1550nm/1550nm/1570nm	
SFP-21W2B(SM-20/40/80)	100	WDM	LC	20/40/80KM	TX:1550nm/1550nm/1570nm	0°C to 70°C
					RX:1310nm/1310nm/1490nm	
SFP-21W2A(SM-20)SC	100	WDM	SC	20KM	TX:1310nm	0°C to 70°C
					RX:1550nm	
SFP-21W2B(SM-20)SC	100	WDM	SC	20KM	TX:1550nm	0°C to 70°C
					RX:1310nm	
SFP-21FC-C11	100	CWDM	LC	80KM	1470nm	0°C to 70°C
SFP-21FC-C12	100	CWDM	LC	80KM	1490nm	0°C to 70°C
SFP-21FC-C13	100	CWDM	LC	80KM	1510nm	0°C to 70°C
SFP-21FC-C14	100	CWDM	LC	80KM	1530nm	0°C to 70°C
SFP-21FC-C15	100	CWDM	LC	80KM	1550nm	0°C to 70°C
SFP-21FC-C16	100	CWDM	LC	80KM	1570nm	0°C to 70°C
SFP-21FC-C17	100	CWDM	LC	80KM	1590nm	0°C to 70°C
SFP-21FC-C18	100	CWDM	LC	80KM	1610nm	0°C to 70°C