![LevelOne logo]

GVT-2002 Version: 1

10/100/1000BASE-T to 1000BASE-SX SMF SC Converter, 20KM

The GVT-2002 SMF SC media converter is able to convert network signals between copper and fiber-optic based networks. The converter provides a 10/100/1000Base-T RJ-45 port, supports full duplex and half duplex switch connectivity and 10Base-T, 100Base-TX and 1000Base-T auto-sensing. Used in single-mode with fibre-optic cabling, this can extend a network range up to 20KM.

The device features built-in Dip switches for easy converter configuration, which function on the Smart LFP (Link Fault Pass-through), allowing the converter to monitor both the fiber and copper ports for signal loss, as well as cut through and smart pass through mode.

The GVT-2002 is able to operate in temperatures from -10° up to 55° Celsius. The converter can be used as a standalone unit or as a slide-in module to the CHV-2000 19" converter rack, which can accommodate up to 14 units for use in a central wiring closet.

1. 10/100/1000Mbps Fiber Port
2. LED Indicators
3. 10/100/1000Mbps RJ-45 Port

4. DC Power Jack
5. Dip Switch

Key Features

- Transfers data from 10/100/1000Base-T copper to fiber interfaces
- 1000Base-SX single-mode fiber for the link up to 20KM
- 9K jumbo frames to increase data transfer rates
- Built-in LFP (Link Fault Pass-through) Technology
- IEEE 802.3x Flow Control protects against lost packets for reliable data transmission
- Dip switches for customized configuration
- Supports low-time lag transmission
- Supports the transmission of extra-long packets up to 1.6KB

- -10°C ~ 55°C operating temperature range

Works Well With

CVH-2000
14-Slot Media Converter Chassis

GVT-2000
10/100/1000BASE-T to 1000BASE-X SFP Converter

Specifications

System Specifications

Standards & Protocols:
IEEE 802.3 10-BASE-T, Ethernet
IEEE 802.3u 100-BASE-TX, Fast Ethernet
IEEE 802.3ab 1000BASE-T, Gigabit Ethernet
IEEE 802.3x Flow Control (full-duplex flow control)
IEEE802.3z 1000Base-SX/LX,

Connectors and Cabling:
Fiber Duplex SC;RJ-45 Port CAT-5/5e Twisted Pair
cable Auto MDI/MDI-X (Max to 100m) and Auto-Negotiation

Wavelength(nm):
1310nm

Indicator:
PWR,TX (FDX, 100, 1000, Link/Act), FX Link/Act

Transmission Method:
Store and forward (Default)

Power:
DC 5V/2A

Features

General:
DIP Switch 1: LFP function
DIP Switch 2 and 3 performance 4 types work mode
DIP Switch 2 and 3 is OFF = Store and forward
DIP Switch 2 is OFF, 3 is ON = Cut through mode
DIP Switch 2 is ON, 3 is OFF = Smart pass through
DIP Switch 2 and 3 is ON = Pass through mode

Performance

Operating Distance:
20KM

Environment

Temperature (°C):
Storage: -40 ~75 °C
Operating: -10 ~ 55 °C

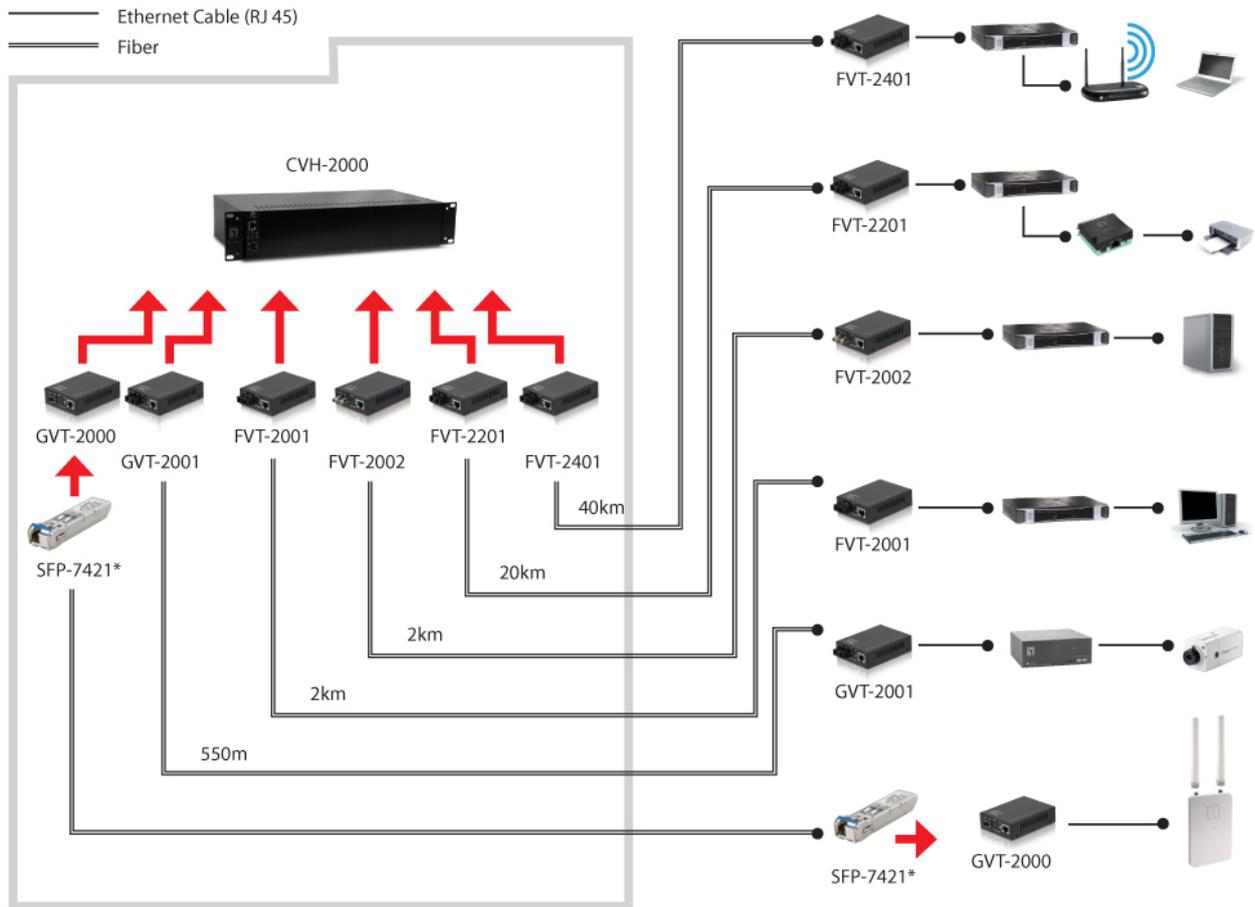Humidity (Non-condensing):
5 ~ 90 %

Physical Specifications

Dimensions (W x D x H mm):
71 x 94 x 26 mm

Weight (g):
420 g

Others

Approval and Compliance:
CE, FCC

Deployment:
Desk, chassis mounted

Diagram

Dimension Diagram

* In above example diagram, converter modules at local and remote ends should be paired for proper connectivity, and the distance mainly depends on cable and transceiver selection accordingly.

Order Information

GVT-2002

Package Contents

GVT-2002
Power Adapter
Quick Installation Guide

Optional Accessory

CVH-2000
14-Slot Media Converter Chassis