![level one logo]
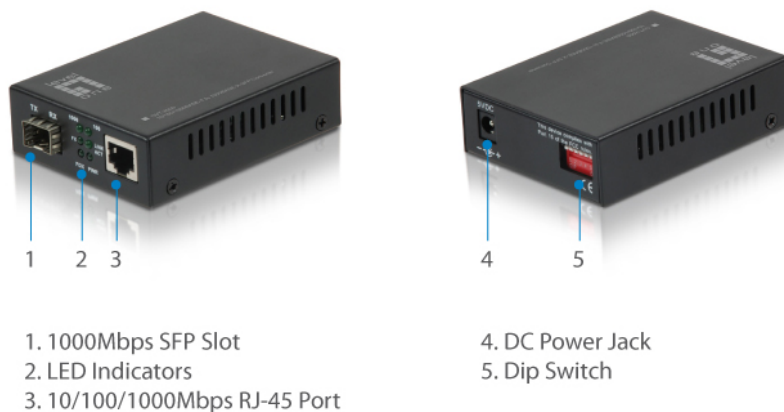
GVT-2000 Version: 1

RJ45 to SFP Gigabit Media Converter

The GVT-2000 media converter is able to convert network signals between copper and fiber-optic based networks. The converter provides a SFP slot for 1000Base-X Gigabit optic module and 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.

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-2000 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. 1000Mbps SFP Slot
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
- SFP slot supports pluggable Gigabit optic modules that enabling you to choose from a variety of transceiver
- 9K jumbo frames to increase data transfer rates
- Built-in LFP (Link Fault Pass-through) (LLCF/LLR) 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 to 55°C operating temperature range

Works With

CVH-2000
14-Slot Media Converter Chassis

GVT-2001
RJ45 to SC Gigabit Media Converter, Multi-Mode Fiber, 550m

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 SFP slot; RJ-45 Port CAT-5/5e Twisted Pair
cable Auto MDI/MDI-X (Max to 100m) and Auto-Negotiation

Wavelength(nm):
depend on SFP module

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

Transmission Method:
Store and forward (Default)

Power Input:
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:
Depend on SFP Module

Environment

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

Humidity (Non-condensing):
5 ~ 90 %

Deployment:
Desk, chassis mounted

Physical Specifications

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

Weight (g):
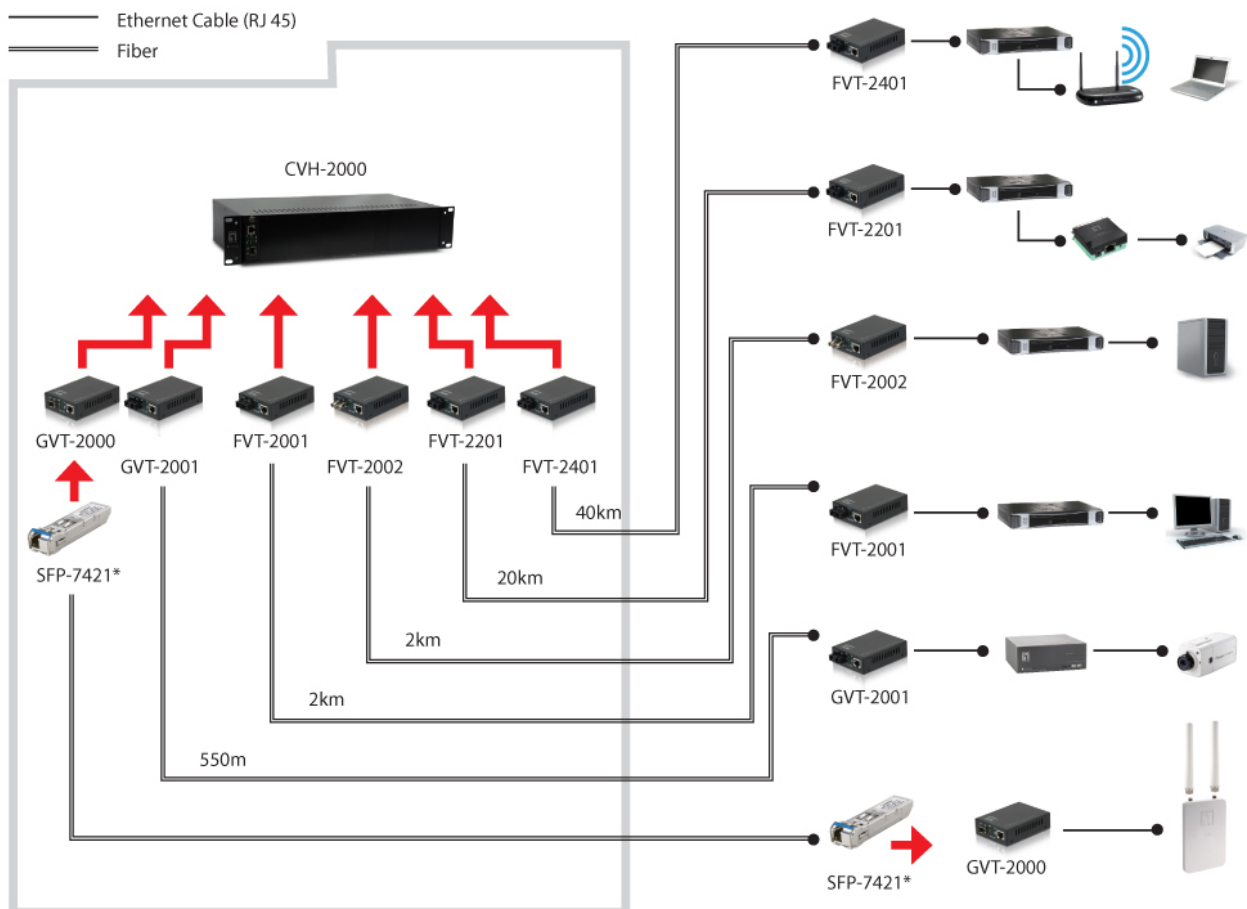420 g

Reliability

MTBF:
50000hrs

Approval and Compliance

EMI/EMS:
CE, RoHS, FCC

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-2000

Package Contents

GVT-2000
Power Adapter
Quick Installation Guide

Optional Accessory

CVH-2000
14-Slot Media Converter Chassis