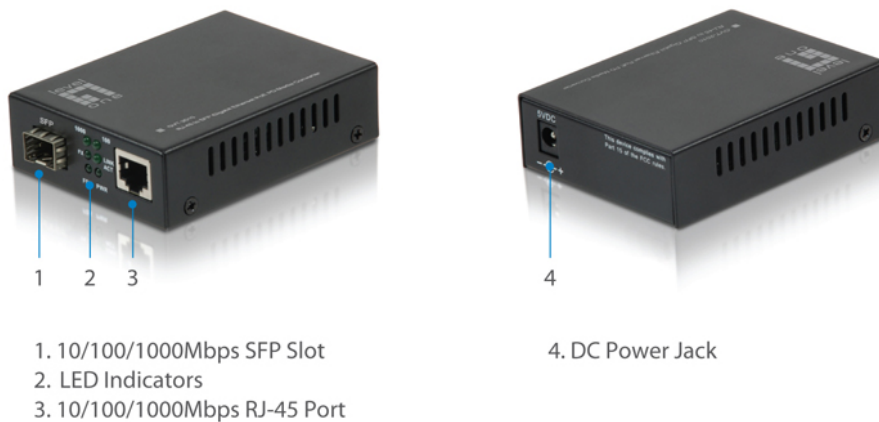![level one logo]

GVT-2010 Version: 1

RJ45 to SFP Gigabit Media Converter, PoE PD

 GVT-2010 10/100/1000Mbps adaptive Gigabit Ethernet media converter adopts switching technology to fulfill media conversion. It complies with IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab standards. Presently it supports two types of media network connections: 10Base-T/100Base-TX/1000Base-T, and 1000Base-SX/LX, inter-converting electrical signals of 10Base-T/100Base-TX/1000Base-T twisted pairs with optical signals of 1000Base-SX/LX. It extends the transmission distance of network from 100m via copper cable to 100 km via fiber optical cable.

GVT-2010 supports 802.3at/af POE-PD function. It can draw the power via UTP cable connect to a POE-PSE switch or mid-span injector. This function makes the GVT-2010 ideal for remote areas of a network without power outlests

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

4. DC Power Jack

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
- Supports low-time lag transmission
- Supports the transmission of extra-long packets up to 1.6KB
- -10°C to 55°C operating temperature range
- IEEE 802.3af/at PoE compliant to simplify deployment and installation

Specifications

System Specifications

Standards & Protocols:
IEEE802.3 10Base-T Ethernet,
IEEE802.3u 100Base-TX Fast Ethernet,
IEEE802.3ab 1000Base-T ,
IEEE802.3z 1000Base-SX/LX Gigabit Ethernet,
IEEE 802.3x flow control,
IEEE 802.3at POE+,
IEEE 802.3af POE

Connectors and Cabling:
1X SFP Slot or 1X SC fiber port, 1 X RJ45 port(POE PD)

Wavelength(nm):
depend on fiber transeiver

Indicator:
PWR (power supply),
 FX LINK (optical link action)
 TP 1000 (TP cable rate1000M),
 TP 100 (TP cable rate 100M)
 TP LINK/ACT (TP cable packet forwarding action),
 FDX (TP full duplex operation)

Transmission Method:
Store and forward

Power Input:
External: AC90~264V/DC100~380V input, 5V/2A output,
Power over Ethernet (IEEE802.3af) 48 VDC

Features

General:
1. Complies with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3z 1000Base-SX/LX, IEEE 802.3x flow control, IEEE 802.3at POE+, IEEE 802.3af POE
2.Media conversion between 10/100/1000Base-T and 1000Base-SX/LX
3.10/100/1000M media converter with SFP slot or SC fiber transeiver
4.Supporting auto-sensing full-duplex and half-duplex operation
5.Supporting auto-sensation of MDI/MDI-X, facilitating system commissioning and installation
6.Support jumbo frame up to 9K
7.Store-and-Forward mechanism
8.Supporting LFP function
9.Support being powered by PoE via UTP cable and AC/DC adaptor

Performance

Operating Distance:
depend on fiber transeiver

Environment

Temperature (°C):
-10~60 with operating
-40~85 with storage

Humidity (Non-condensing):
5%~90%

Deployment:
Desk,Wall,
Chassis mounted

Physical Specifications

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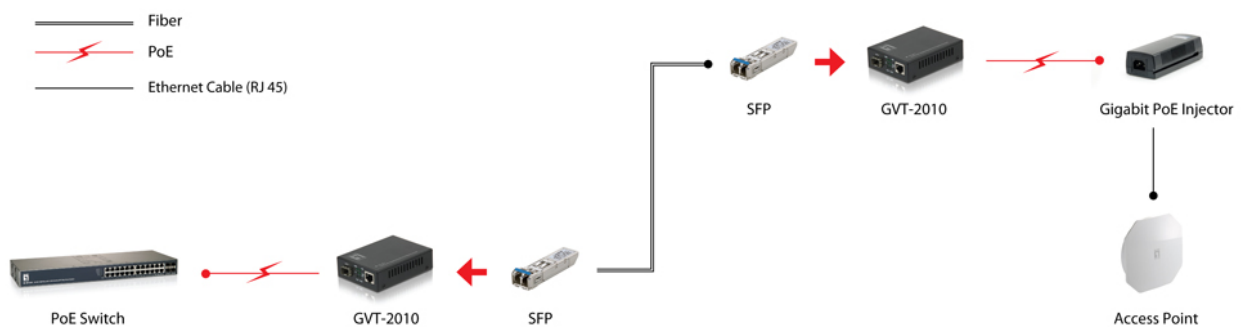71 x 94 x 26

Weight (g):
122g

Reliability

MTBF:
30000 hours

Approval and Compliance

EMI/EMS:
CE, RoHS, FCC

Diagram

Order Information
GVT-2010

Package Contents
GVT-2010
User Manual

Optional Accessory

CVH-2000
14-Slot Media Converter Chassis