![LevelOne logo]

FVT-2001 Version: 1

RJ45 to SC Fast Ethernet Media Converter, Multi-Mode Fiber, 2km

The FVT-2001 MMF SC media converter is able to convert network signals between copper and fiber-optic based networks. The converter provides a 10/100Base-TX RJ-45 port, supports full duplex and half duplex switch connectivity and 10Base-T and 100Base-TX auto-sensing. Used in multi-mode with fibre-optic cabling, this can extend a network range up to 2km.

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 converter transmission method, auto-negotiation mode for adjusting copper speed and full & half duplex mode.

The FVT-2001 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 Chassis, which can accommodate up to 14 units for use in a central wiring closet.

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

4. DC Power Jack
5. Dip Switch

Key Features

- Transfers data from 10/100Base-TX copper to fiber interfaces
- Multi-mode fiber with SC connector for transmission of up to 2km
- 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

FVT-2002
RJ45 to ST Fast Ethernet Media Converter, Multi-Mode Fiber, 2km

Specifications

System Specifications

Standards & Protocols:
IEEE 802.3 10-BASE-T, Ethernet
IEEE 802.3u 100-BASE-TX, Fast Ethernet
IEEE 802.3x Flow Control (full-duplex flow control)

Connectors and Cabling:
1 x 100Base-FX Multi-mode duplex SC
Fiber cable: 50/125um, 62.5/125um

1 x 10/100Base-TX RJ-45 Port, auto MDI/MDI-X and Auto-Negotiation

Wavelength(nm):
1310nm

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

Transmission Method:
Store and forward (Default)

Power Input:
DC 5V/1A

Features

General:
DIP Switch 1: LFP function
DIP Switch 2: Transmission Mode
DIP Switch 3: Auto/Force the UTP port work mode
DIP Switch 4: 10/100M for UTP port
DIP Switch 5: Full/Half Duplex mode for UTP port
DIP Switch 6: Normally close

Performance

Operating Distance:
2KM

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):
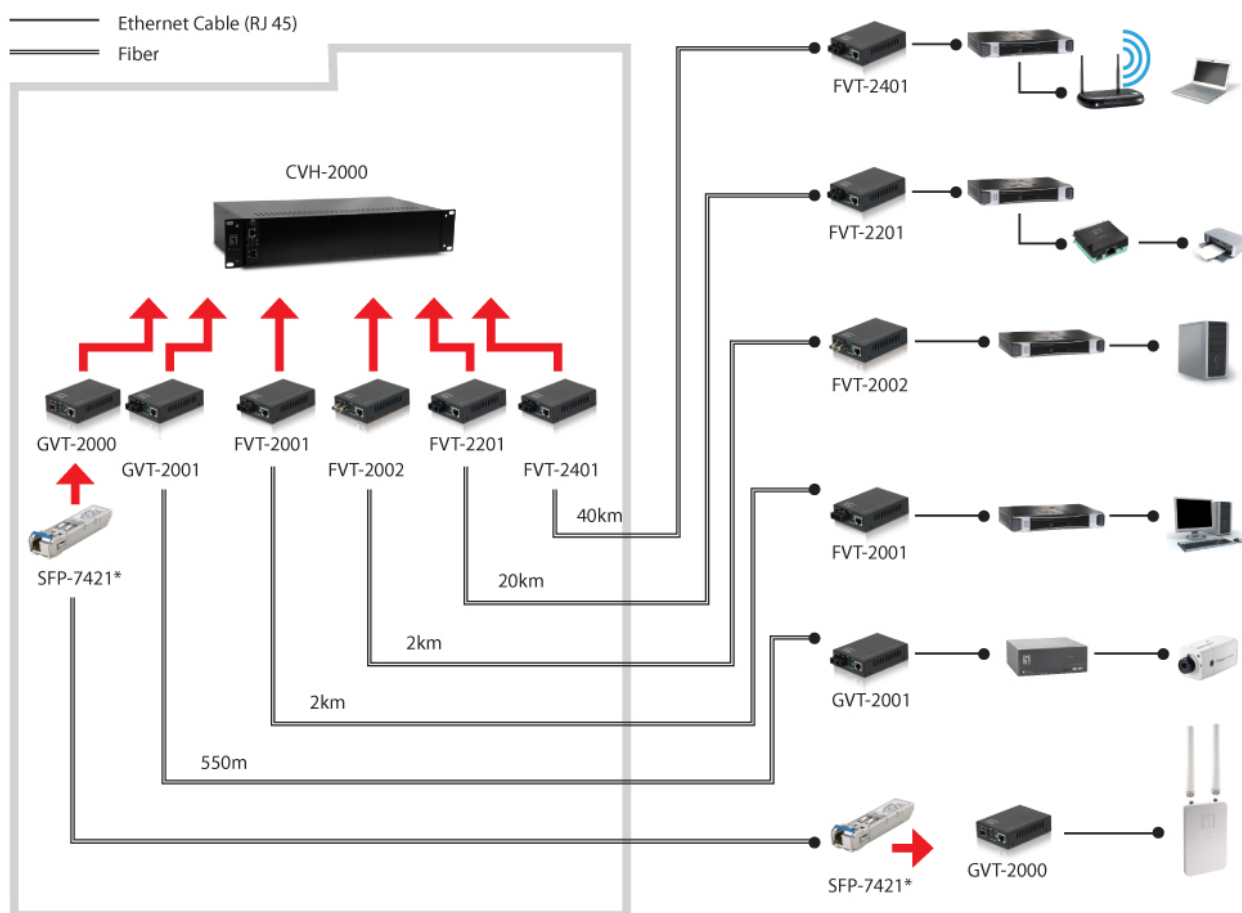71 x 94 x 26 mm

Weight (g):
420 g

Reliability

MTBF:
100,000 hours

Approval and Compliance

EMI/EMS:
FCC, CE, RoHS

Diagram

Dimension Diagram

—— Ethernet Cable (RJ 45)
═══ Fiber

CVH-2000

GVT-2000
GVT-2001
FVT-2001
FVT-2002
FVT-2201
FVT-2401

SFP-7421*

40km
20km
2km
2km
550m

SFP-7421*
GVT-2000

FVT-2401
FVT-2201
FVT-2002
FVT-2001
GVT-2001

* 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

FVT-2001

Package Contents

FVT-2001
Power Adapter
Quick Installation Guide

Optional Accessory

CVH-2000
14-Slot Media Converter Chassis