

## 10/100BaseTX to 100FX Media Converter

LevelOne provides a complete series of media conversion solutions for flexible network extensions. The FVT-4001/4002 and 4301 media converters are able to convert network signals between UTP and fiber optic cable based networks. This allows extension of networks over a longer distance in both multi- and single mode via fiber-optic cabling.

In multi-mode, the FVT-4001 and FVT-4002 are able to transmit signals up to 2km while the single-mode FVT-4301 media converter is able to extend a network even further by up to 30km.

Each Media Converter provides a 10/100BaseT/TX auto-negotiating RJ-45 connector port that supports full duplex and half duplex switch connectivity and MDI/MDI-X Auto Crossover. The Smart Link Fault Pass-through technology enables the switch to shut down data transmission when the link connection has failed.

The converters are IEEE802.3 10Base and 802.3u 100BaseTX and 100BaseFX compliant.



**FVT-4001/4301**



**FVT-4002**

### Related Products



**FVT-4000**  
10 Slot Media Converter  
Chassis with Redunant Power  
Supply

## Key Features

- UTP to Fiber Switching Media Conversion
- Auto Negotiation Speed in Half/Full Duplex mode
- TX port supports Auto MDI/MDI-X Crossover
- Built-in Smart Link Error Detection Technology
- Hot swappable
- Can be used as a Standalone converter or slotted into a Converter Chassis

## Technical Specification

### IEEE Standard Compliant

IEEE802.3 10BASE-T  
IEEE802.3u 100BASE-TX/100BASE-FX  
IEEE802.3x Flow Control and Back pressure

### Connector

Fiber  
Duplex SC/ST

RJ-45 Port  
CAT-3/5 (10/100Mbps) Twisted Pair cable Auto MDI/MDI-X  
and Auto-Negotiation Function Support

### Switching Architecture

Store and Forward

### Fiber Parameters

Fiber Core  
Multi-Mode - 62.5/125um, 50/125um (support up to 2km)  
Single-Mode - 8/125um, 10/125um (support up to 30km)

### Wavelength

1310nm (Multi-mode)  
1310nm (Single-mode)

### Transparent packet

64 to 1518 Bytes for Non-VLAN Ethernet packet

### DIP Switch

DIP Switch 1: UTP Auto-Nego / 100Mbps Full Duplex mode  
DIP Switch 2: Fiber Full/Half Duplex  
DIP Switch 3: LLF (Link Loss Forwarding) Disable/Enable  
DIP Switch 4: Switch Converter / Pure converter mode

### LED Indicators

Power, Speed, TX Link/Activity, TX Full-duplex/Collision, FX  
Link/Activity, FX Full-duplex/Collision

### Operating Conditions

Operation Temperature: 0 ~ 45C  
Operation Humidity: 10% to 90% (Non-condensing)  
Storage Temperature: -10 ~ 70C

### Dimension

119 x 85 x 26mm

### Certifications

EMI FCC Class A, CE  
Safety UL, cUL

### Power Requirement

DC9V / 0.7A

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## Ordering Information

- FVT-4001 10/100BaseTX to 100FX Converter, SC, Multi-mode 2km
- FVT-4002 10/100BaseTX to 100FX Converter, ST, Multi-mode 2km
- FVT-4301 10/100BaseTX to 100FX Converter, SC, Single-mode 30km