

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

Operating Conditions

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

Dimension

119 x 85 x 26mm

Certifications

EMI FCC Class A, CE
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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