ProCon Converter
FVT-6001/6301

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10/100TX to 100 FX Media Converter w/ TS-1000 Supported

The LevelOne FVT-6001 and FVT-6301 are Multi-mode and Single-mode converters that convert 10/100BaseT copper signals to 100FX SC fiber optic signals.

The FVT-6001 is a Multi-mode converter that can convert signals up to 2km away, while the FVT-6301 Single-mode converter send and receive signals over a 30km fiber optic cable. The converters are stand-alone or can be incorporated into an existing module converter chassis for easy management. The LevelOne FVT-4000 converter chassis is compatible with these modules.

Both models offer SC format cabling connectors. The UTP port supports Auto MDI/MDI-X and offer 4 DIP switches for managing the ports and functions on the modules. The modules further support Link Loss Forwarding Technology for easy network link failure management.

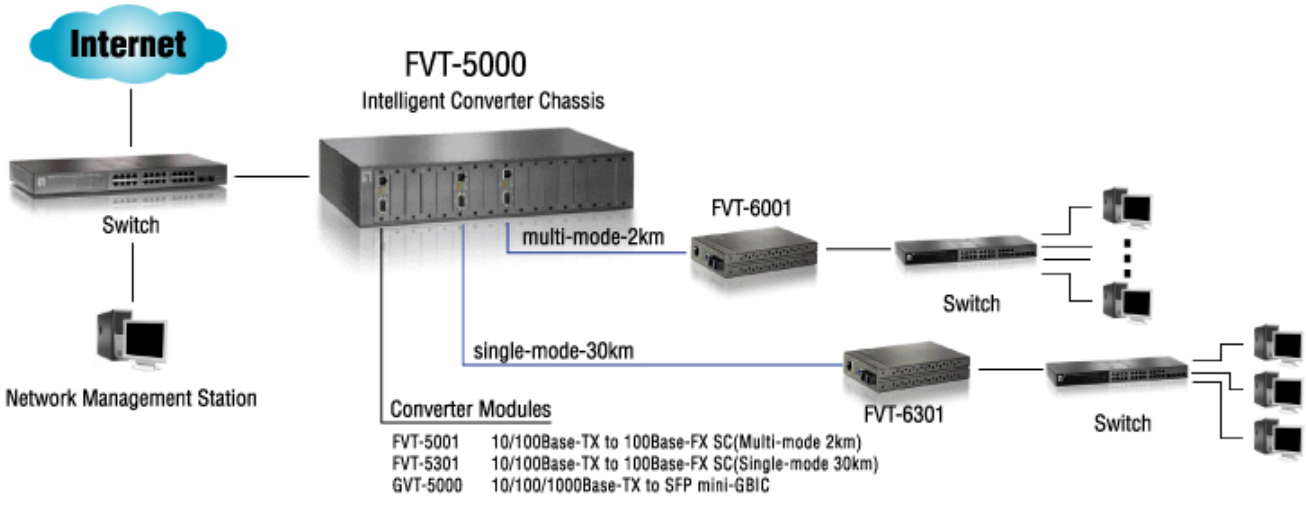
Converters also support TS-1000 that designed to work with the FVT-5000 converter series for remote configuration and status monitoring.

FVT-6001/6301

Key Features

- Complies with IEEE 802.3, 802.3u, 802.3x standards
- Converts network signals between UTP copper and Fiber Optic cabling
- Supports 10/100 Auto-negotiation and Auto MDI/MDI-X, Half/Full Duplex mode
- Provides connectivity in multi-mode (2km) and single-mode (30km)
- Features Link-Loss forwarding Technology
- Designed as stand-alone converter that can also be used in a module converter chassis
- Support TS-1000, compatible with FVT-5000 series modules for network extension over long distance
- Hot swappable when used in FVT-4000 converter chassis

Product Diagram



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Technical Specification

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

Connector
Fiber:
Duplex SC

RJ-45 Socket:
CAT-3/5 (10/100Mbps) Twisted Pair cable Auto MDI/MDI-X and support Auto-Negotiation function

Fiber parameters
Fiber Core:
Multi-Mode (62.5/125um, 50/125um)
Single-Mode (8/125um, 10/125um)

Wavelength:
Single/Multi Mode: 1310nm

Available Fiber distance:
Multi-Mode (2KM)
Single-Mode Fiber (30 KM)

Switch architecture
Store and Forward

Link Loss Forward
TX → Fiber
If TX port link down, then converter will forced fiber to link down
Fiber → TX
If Fiber port link down, the media converter will force TX port to link down

Transparent packet
64 to 1518 Bytes for Non-VLAN Ethernet packet
68 to 1522 Bytes for VLAN-Tag type Ethernet packet
Maximum transparent packet size from 64 to 1536 Bytes

System Power
Stand-alone (external adapter): DC9V / 0.7A

DIP Switch
DIP Switch 1: UTP Auto-Negotiation / 10Mbps 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, TX (100Mbps, LK/Act, FDX/COL)
Fiber (LK/Act, FDX/COL)

Physical Specifications
Dimensions
119mm x 85mm x 26mm (W x D x H)
Temperature
0°C to 45°C (32°F to 113°F)
Operation Humidity
10% to 90% (Non-condensing)
Storage Temperature
-40°C to 70°C

Certifications
EMI Safety
FCC Class A, CE

Ordering Information

FVT-6001: 10/100TX to 100FX SC, Multi-mode 2km (TS-1000)

FVT-6301: 10/100TX to 100FX SC, Single-mode 30km (TS-1000)

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