

16-Slot Managed Converter Chassis with Redundant Power Supply

Intelligent Media Converter Chassis

The FVT-5000 Managed Media Converter Chassis is a 16-slot converter centre for LevelOne media converter modules.

Depending on the specific requirements of the network, several LevelOne converters are compatible with the FVT-5000. It provides support for 10/100TX to 100FX and 1000T to SFP modules. Each module is automatically identified once slotted in.

The FVT-5000 supports SNMP, Web, Telnet and console management features with event log and SNMP Trap management interfaces. It further supports SNMP MIBII and private MIB with HTTP and Telnet security features as well as Link Loss Forwarding technology to combat and manage broken links between local and remote modules. The management features for the FVT-5000 enable network administrators to monitor the status of the converter modules and configure modules remotely.

Moreover, it allows to configure, monitor and test the remote converters with TS-1000 supported.

The FVT-5000 converter chassis is suitable for the following LevelOne Converter Modules:

- **FVT-5001**
10/100TX-100FX, SC Multi-mode, 2km, TS-1000
- **FVT-5301**
10/100TX-100FX, SC Single-mode, 30km, TS-1000
- **GVT-5000**
10/100/1000BaseT to SFP for mini-GBIC module 3.3v

This enables users to mix and match LevelOne modules to match their network requirements.



FVT-5000

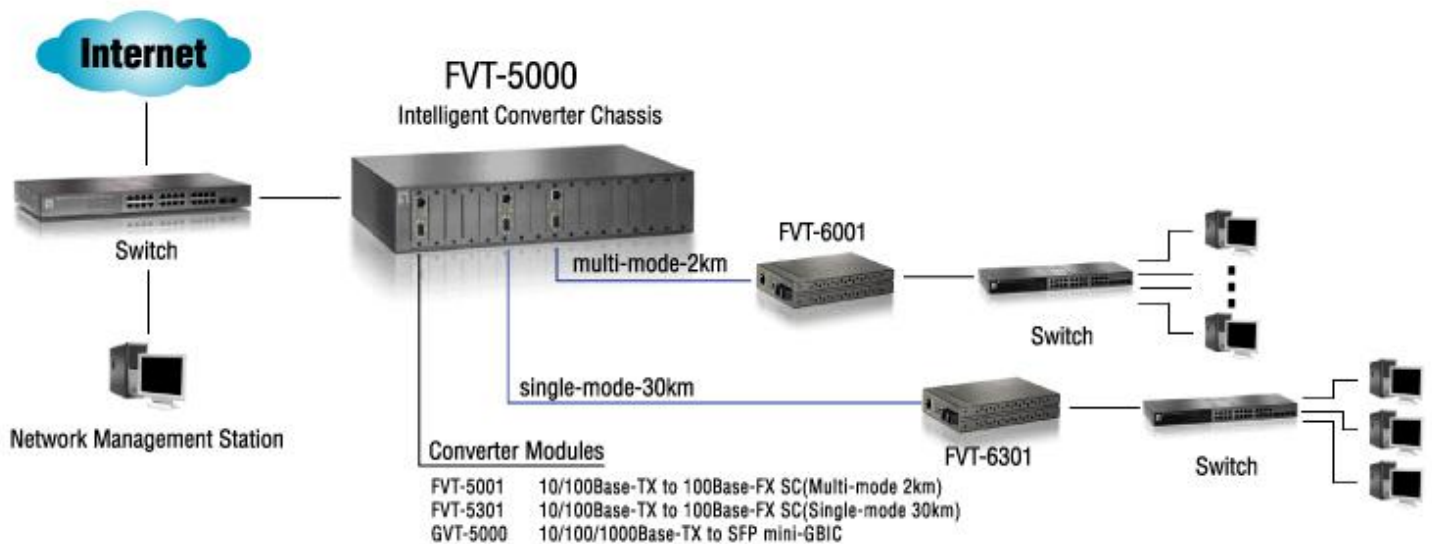
Key Features

- Provides for 16 slots and redundant AC power
- Supports 10/100TX to 100FX, to 1000T to SFP modules
- Converter module and CPU modules are hot-swappable
- Provides status check and management for SNMP, power, fan and media converter modules
- Configure and check status of converter and modules via the console, telnet, web and SNMP interface
- Features intelligent module identification capability
- Features Link Loss Forwarding technology for advanced automated networking infrastructure and function monitoring
- Supports TS-1000 function for the 10/100 module
- Provides for back-door password feature will quick access and maintenance
- Friendly Web-based user interface
- EIA RS-310C 19" standard rack mountable size

Technical Specification

- **Connector**
CPU Board:
 RJ-45 for 10/100Mbps, Full/Half Duplex
Module Slot:
 16 Converter Module slots
- **LED Indicators**
 Power, TX (100/1000Mbps, LK/Act, FDX/COL), Fiber (LK/Act, FDX/COL)
- **Management**
 SNMP, Web UI, Telnet, Console
- **System Power**
 Redundant and Load Sharing function support
 AC 90~240 VAC, 50/60 HZ @ 20A (max)
- **Physical Specifications**
 Dimension: 448mm(w) * 89mm(H) * 279mm(D)
 Operation Temp. 0 ~ 45°C
 Operation Humidity 10% to 90% (Non-condensing)
 Storage Temp. -10 ~ 70°C
- **Certifications**
 EMI: FCC Class A, CE

Product Diagram



Technical Specification for Modules

FVT-5001/FVT-5301

- UTP to IEEE802.3u 100Base-FX modules
- Support TS-1000, Loop Back Test
- Hot swappable
- Used for central side
- Auto-Negotiation on 10/100Base-T
- Support Auto-MDI-MDIX
- Built-in Link Loss Forwarding Technology
- Remote Monitor/Control for terminal side

■ Standards Compliant

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

■ Fiber parameters

Fiber Core:

Multi-Mode (62.5/125um, 50/125um)
Single-Mode (8/125um, 10/125um)

Wavelength:

100Mbps multi-mode: 1310nm
100Mbps single-mode: 1310nm

Fiber distance:

100Mbps module - Multi-Mode (2KM)
100Mbps module - Single-Mode Fiber (30 KM)

■ Connector

Fiber

Duplex SC Multi-Mode 2km
Single-Mode 30km

RJ-45 Socket

10Mbps: CAT-3/4, 4 pairs of Twisted Pair Cable
100Mbps: CAT-5, 4 pairs of Twisted Pair Cable

■ Switch architecture

Store and Forward

■ Link Loss Forwarding

*If Fiber link down, it will force the TX port link also down
If TX port link down, it will force the Fiber port link also down*

■ LED Indicators

Power, Speed,
TX: Link Activity, Speed, Full Duplex
FX: Links, Activity, Full Duplex

■ Physical Specifications

Dimension: 80mm(W)*157mm(D)*24mm(H)
Operation Temp: 0°C ~ 45°C
Operation Humidity: 10% to 90% (Non-condensing)
Storage Temp: -10°C ~ 70°C

■ Certifications

EMI: FCC Class A, CE

GVT-5000

■ Standards Compliant

IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX with N-way auto negotiation
IEEE802.3ab Gigabit copper with N-way auto-negotiation
IEEE802.3z for Gigabit fiber

■ Fiber parameters

Fiber Core:

Multi-Mode (62.5/125um, 50/125um)
Single-Mode (8/125um, 10/125um)

Wavelength:

1000Mbps Single-mode: 1310nm
1000Mbps Multi-mode: 850nm

Fiber distance:

Gigabit Distance: depend on mini-GBIC transceiver type

■ Connector

Fiber

SFP Slot for mini-GBIC transceiver

RJ-45 Socket

CAT- 5 (1000Mbps) 4 pairs of UTP/STP cable

■ Switch architecture

Store and Forward

■ Transparent Packet

64 to 1518 Bytes for Non-VLAN Ethernet packet
68 to 1522 Bytes for VLAN-Tag type Ethernet packet

■ Link Loss Forwarding

*If Fiber link down, it will force the TX port link also down
If TX port link down, it will force the Fiber port link also down*

■ LED Indicators

100/1000TX to MINI GBIC module: Power, Gigabit
Copper: Speed, 1000Mbps, LNK/ACT, FDX/COL
Fiber: LNK/Act, FDX/COL

■ Physical Specifications

Dimension: 80mm(W)*157mm(D)*24mm(H)
Operation Temp: 0°C ~ 45°C
Operation Humidity: 10% to 90% (Non-condensing)
Storage Temp: -10°C ~ 70°C

■ Certifications

EMI: FCC Class A, CE



ProCon Converter FVT-5000

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Ordering Information

FVT-5000: 16-Slot Managed Converter Chassis with Redundant Power Supply

Optional Modules:

FVT-5001: 10/100TX-100FX, SC Multi-mode, 2KM, TS-1000

FVT-5301: 10/100TX-100FX, SC Single-mode, 30KM, TS-1000

GVT-5000: 10/100/1000BaseT to SFP for mini-GBIC module 3.3v

Optional mini-GBIC Transceiver:

GVT-0300: mini-GBIC SFP transceiver SX/LC (Multi-mode 550m)

GVT-0301: mini-GBIC SFP transceiver LX/LC (Single-mode 10km)

GVT-0302: mini-GBIC SFP transceiver ZX/LC (Single-mode 70km)

Standalone Converter: (Remote Location)

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

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

For more information, please contact your LevelOne representative, or visit www.level1.com
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