FVT-4000

10-Slot Media Converter Chassis

w/ Redundant Power

User Manual

Table of Contents

1. Introduction

Media Converter Chassis

The FVT-4000 Media Converter Chassis provides compact management on up to 10 optional modular converter units, which allows your network connectivity to be more flexible. The Media Converter Chassis also supports 2 redundant hot-swappable power supplies, and all modular converter units in the Chassis are also hot- swappable units.

Fiber Converter

Fiber Converters convert Ethernet signals from twisted pair cable to fiber optic cable and vice versa, providing seamless connection between two different media. By connecting a 10Base-T, 100Base-TX, 1000Base-T twisted pair devices to a 100 Base-FX compliant ST, SC port, 1000Base-SX, 1000Base-LX this converter can greatly increase the flexibility of Ethernet cabling connectivity.

1.1. Features

The Media Converter Chassis is a combination of 10-slot host cabinet and optional several of media converter bracket modules. A maximum 10-bracket module can be installed in the cabinet with two redundant power supplies. The Power supply supports AC input type and redundant feature.
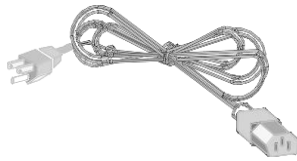
- Standard 19-inch rack-mountable design
- Chassis with 10 Slots for media converter
- Redundant power for Chassis
- Hot swap power supply
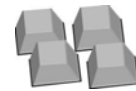
1.2. Package Contents

- FVT-4000 Converter Chassis
- Power Cord
- Rubber Feet
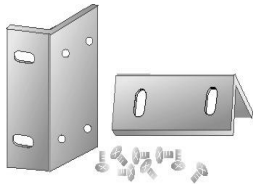- Rack-mount Kit
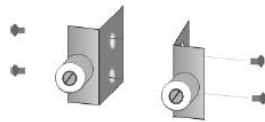- Module Brackets x 10 Set
- User Manual

10-Slot Converter Chassis　　　　　　Power Cord　　　　　　Rubber Feet

Rack-mount Kit　　　　　　x 10
　　　　　　　　　　　　Module Brackets　　　　　　User Manual

Package Contents

Compare the contents of your Media Converter Chassis package with the standard checklist above. If any item is missing or appears damaged, please keep the carton and original packaging materials if possible in case you need to return the product for repair.

2. Hardware Description

This Chapter describes the hardware of the Media Converter Chassis including Front panel, LEDs, and Rear panel.

The Media Converter Chassis is a modular unit, and its chassis contains 10 slots for optional modular converters. The Physical Dimensions of The Media Converter Chassis are **440mmX 266mmX 133mm**.
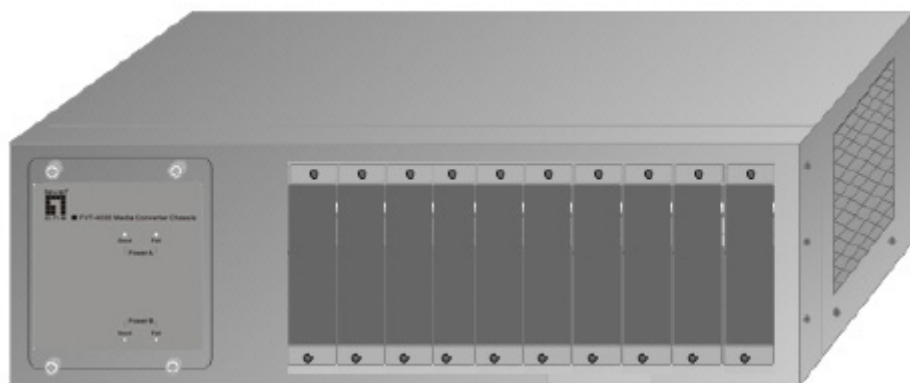
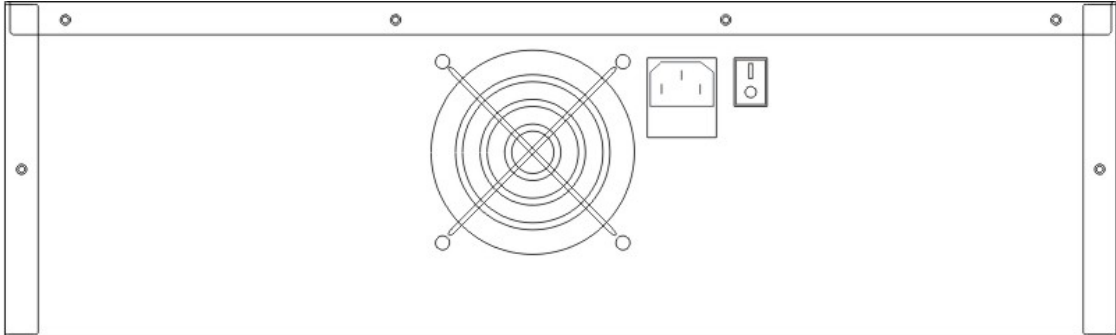**The Media Converter Chassis**

2.1. Front Panel

The Front Panel of The Media Converter Chassis contains 10 slots for optional modular converters and LED to indicate dual redundant power supply status.
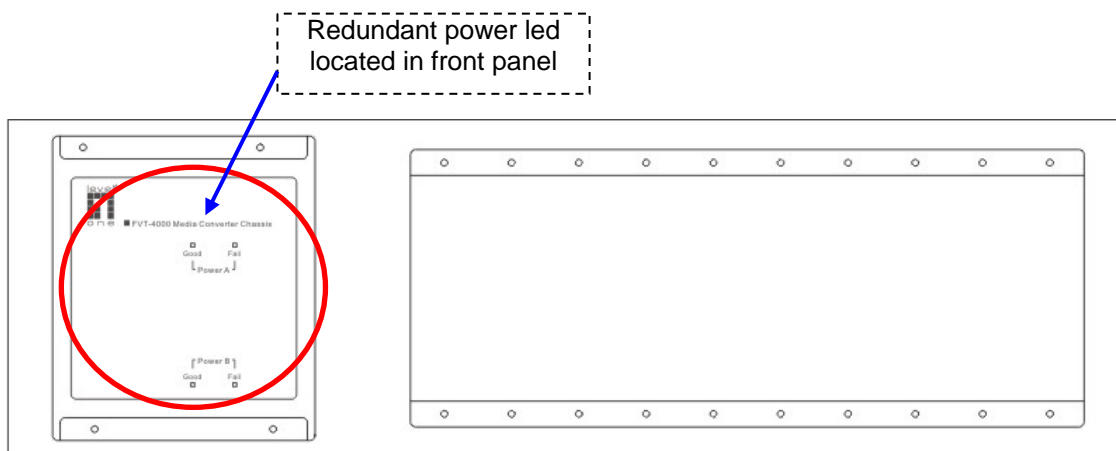
The Front Panel

2.2. Real Panel

The 3-pronged power plug, On/Off switch and ventilation fan are located at the Rear Panel of the Media Converter Chassis. The Chassis will work with AC in the range AC 100~240 VAC, 50/60 HZ.

The Rear Panel

2.3. LED Indicators

There are 4 diagnostic LEDs located on the Front panel of the Media Converter Chassis. They provide real-time information of system and optional status. The indicator includes Power Good (A, B), Fail (A, B). The following table provides description of the LED status and their meanings.

LED	Status	Meaning
Power A Good	Green	Power Module A is ready
	Off	Power Module A is not ready
Power B Good	Green	Power Module B is ready
	Off	Power Module B is not ready
Power A Fail	Orange	Power Module A is fail
	Off	Power Module A is ready
Power B Fail	Orange	Power Module B is fail
	Off	Power Module B is ready

3. Rack Mount Installation

This Chapter provides the installation procedure of The Media Converter Chassis.

Hardware Installation

The Media Converter Chassis is suitable for use in an office environment where it can be rack-mounted in standard EIA 19-inch racks or standalone.

3.1. Desktop Application

1. Set The Media Converter Chassis on a sufficiently large flat space with a power outlet nearby.
2. Apply the rubber footpads to each corner on the bottom of the Chassis. These pads cushion the switch against shock/vibration.
3. Connect the power cord. The power supply is self-adjusting for AC input power between 100 and 240 Volts.

Note

Air vents must not be blocked and must have free access to the room ambient air for cooling.

3.2. Rack Mounting

To stack The Media Converter Chassis in a standard 19-inch EIA rack, use the supplied mounting kit. This kit contains 2 side-mounting brackets, 10 bracket screws, and 4 larger rack-mount screws.
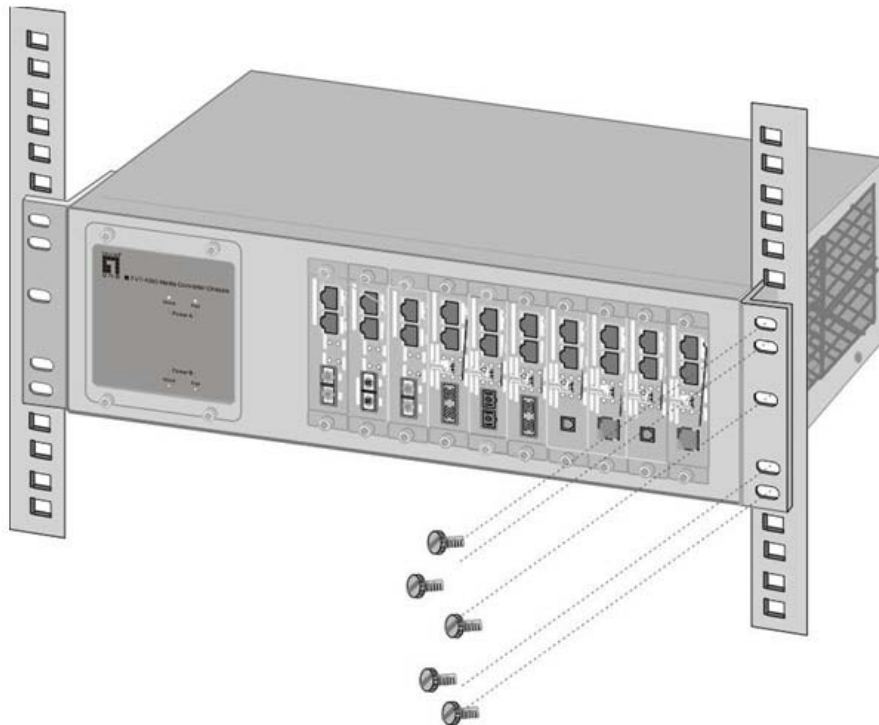
Perform the following steps to rack mount the Chassis:

1. Attach the brackets to the device using the screws provided in the Bracket Mounting Kit

Attaching Mounting Brackets

2. Mount the device in the rack, using four rack-mounting screws (not provided).

**Rack Mounting the Chassis**

Note

For proper ventilation, allow about 6 inches of clearance on all sides of the Chassis. This is especially important for enclosed rack installations.

4. Connecting Your Network

This chapter provides one sample of network connectivity in which the Media Converter Chassis.

4.1. Network Connectivity

In the following network connectivity example, Switches, hubs, and PCs have been interconnected with the Media Converter Chassis.
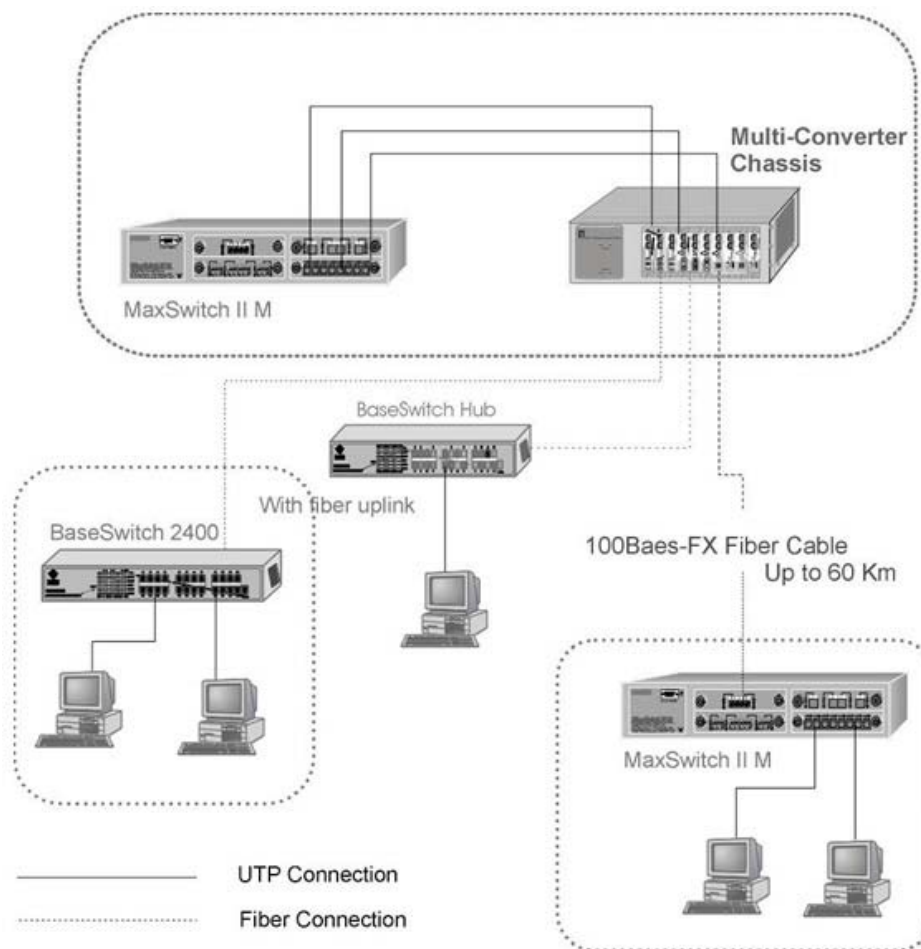
Application Example

In the network connectivity, we divided the connectivity into three groups. The top group may be in MIS department, and the below left one, for instance, can be R&D department. The below right group, for instance, can be QA department.

5. Specification

Model No.	FVT-4000 10-Slot Media Converter Chassis
Support modules	**100M:** FVT-4001 10/100BaseT to 100FX, SC MM, 2km FVT-4002 10/100BaseT to 100FX, ST MM, 2km FVT-4301 10/100BaseT to 100FX, SC SM, 30km **1000M:** GVT-4000 10/100/1000BaseT to SFP GVT-4001 10/100/1000BaseT to 1000SX, SC MM, 550m **SFP:** (Optional for GVT-4000) GVT-0300 mini-GBIC transceiver, MM 550m GVT-0301 mini-GBIC transceiver, SM 10Km GVT-0301 mini-GBIC transceiver, SM 70Km
Power Supply	90W x 2 Redundant Hot-Swap
Operation Humidity	10% to 90% (Non-condensing)
Operation Temperature	0°C to 45°C (32°F to 113°F)
Weight	4.5Kg
LED	Power Good (A, B), Fail (A, B)
Power	AC 90~240 VAC, 50/60 HZ
Dimension	440mm x 266mm x 133 mm (3U, 19")
EMI & safety	CE, FCC Class A