CVH-2000
14-Slot Media Converter Chassis

User Guide

Ver. 1.3.251209

1. Introduction

The LevelOne CVH-2000 media converter chassis is able to host up to 14 media converters. The chassis supports LevelOne FVT-2001/2002/2201/2202/2401 and GVT-2000/2001/2002/2003/2011/2051 Media Converts. All converters are individually secured into the chassis and can be hot-swapped for maximum connection reliability.The dual power supplies ensure continuous network operation. The Chassis is a standard 19-inch rack-mountable size that easily fits into a server rack.

1.1. Features

The Media Converter Chassis is a combination of 14-slot host cabinet and optional several of media converter bracket modules. A maximum 14-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 14 Slots for media converter
- Redundant power for Chassis

1.2. Package Contents

- CVH-2000
- Power Cord
- Module Brackets x 14 Set
- Quick Installation Guide

Package Contents

Compare the contents of your Media Converter Chassis package with the standard check list 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

The Media Converter Chassis is a modular unit, and its chassis contains 14 slots for optional modular converters. The Physical Dimensions of The Media Converter Chassis are 428mm x 230mm x 90 mm.

The Media Converter Chassis

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 100~265 VAC, 50/60 HZ.

The Rear Panel

3. Rack Mount Installation

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

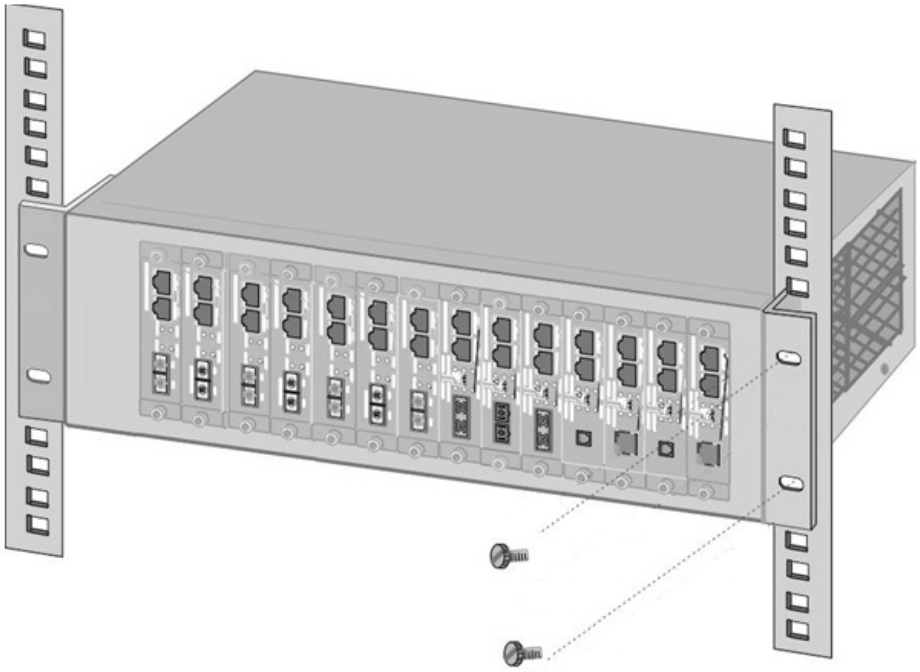
1. Set The Media Converter Chassis on a sufficiently large flat space with a power outlet nearby.
2. Connect the power cord. The power supply is self-adjusting for AC input power between 100 and 265 Volts.

Note

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

3.2. Rack Mounting

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



Rack Mounting the Chassis

Note

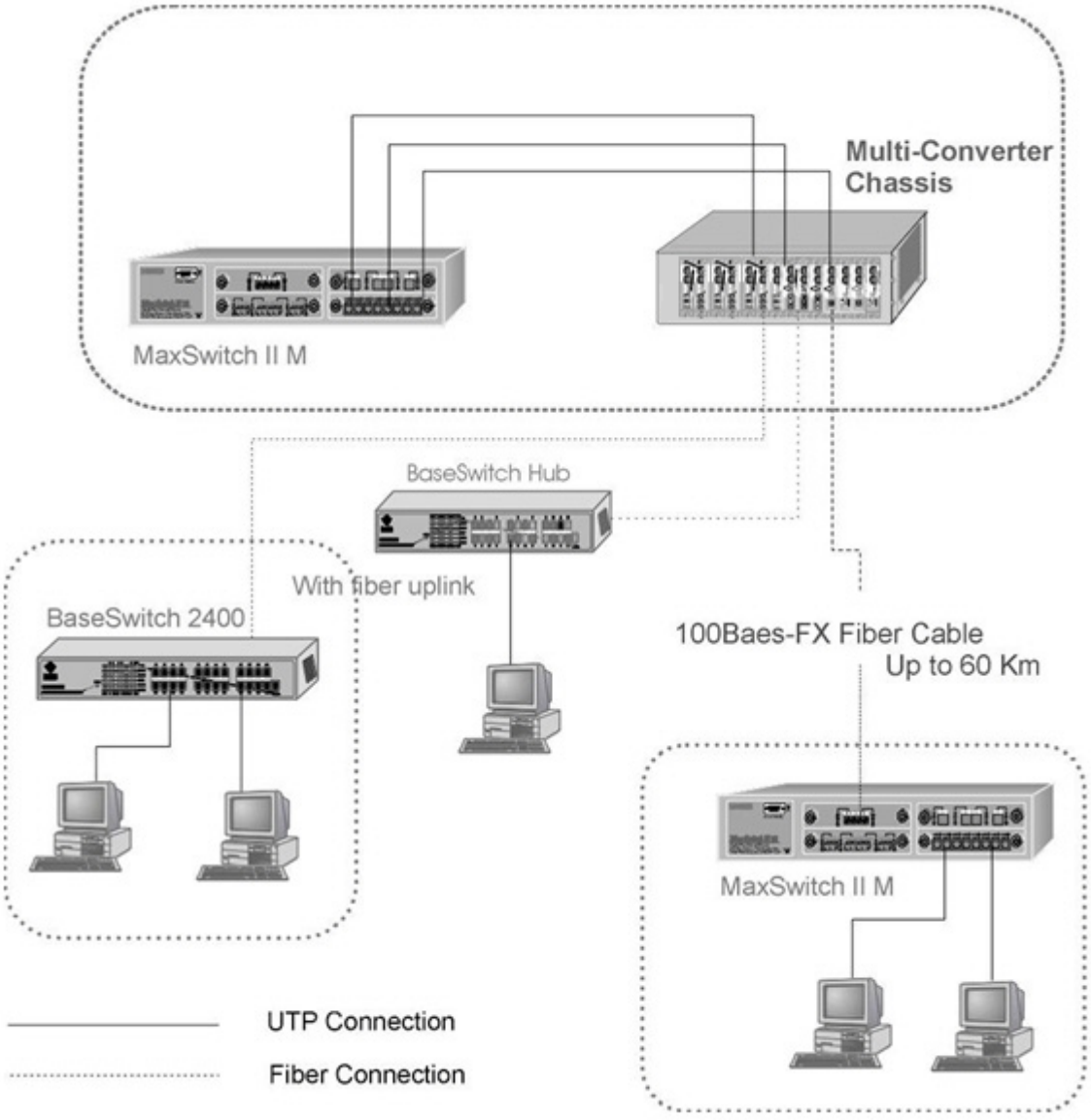
For proper ventilation, allow about 6 inches of clearance on all sides of the Chassis. This is especially important for enclosed rack installations.

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.	CVH-2000 14-Slot Media Converter Chassis
Support modules	**100M:** FVT-2001 100BASE-TX to 100BASE-FX MMF SC Converter, 1310nm, 2km FVT-2002 100BASE-TX to 100BASE-FX MMF ST Converter, 1310nm, 2km FVT-2201 100BASE-TX to 100BASE-FX SMF SC Converter, 1310nm, 20km FVT-2202 100BASE-TX to 100BASE-FX SMF BIDI SC Converter, 1310nm/1550nm, 20km FVT-2401 100BASE-TX to 100BASE-FX SMF SC Converter, 1310nm, 40km **1000M:** GVT-2000 1000BASE-T to 1000BASE-X SFP Converter GVT-2001 1000BASE-T to 1000BASE-SX MMF SC Converter, 850nm, 550m GVT-2002 1000BASE-T to 1000BASE-SX SMF SC Converter, 1310nm, 20km GVT-2003 1000BASE-T to 1000BASE-SX SMF ST Converter, 1310nm, 20km GVT-2011 1000BASE-T to 1000BASE-X SFP Converter, 2 x SFP, 1 x RJ45 **10G:** GVT-2051 10GBASE-T to 10GBASE SFP+ Converter **SFP:** (Optional for GVT-2000) GVT-0300 1.25G MMF SFP Transceiver, 550 m, 850nm GVT-0301 1.25G SMF SFP Transceiver, 10 km, 1310nm GVT-0302 1.25G SMF SFP Transceiver, 80 km, 1550nm
Power input	AC Voltage: AC 100~265V; frequency: 50/60 Hz, 2.0A
Power output	DC 5V, 12A
Max power consumption	50 W
Operating temperature	-10°C to 55°C
Operating humidity	20% to 80% (non-condensing)
Maintaining temperature	-40°C to 85°C
Maintaining humidity	5% to 90% (non-condensing)
Dimensions of rack	428 x 230 x 90 mm
Weight	4.5 Kg
Approval and compliance	CE, FCC Class A, RoHS