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## PREFACE

This manual describes how to install and use the 19" Media Converter Chassis System. The system introduced here is capable of housing up to sixteen media converters, each of which offers one channel media conversion solution:

In this manual, you will find:

- Introduction on the Chassis System
- Product features
- Illustrative LEDs functions
- Installation instructions
- Specifications
- Ordering Information

Attention! hassis shown in the figures of this manual is fitted with lant power supplies. Proprietary media converters and a second power supply shall be ordered separately!



## **PRODUCT FEATURES**

This chapter describes the features of the Media Converter Chassis System.

### **Product Features**

- Plug-and-Play
- > House up to Sixteen media converters
- Front panel LEDs for bay and fan power status
- Standard 19" rackmountable size, 2U
- Non-stop operation & minimal downtime
- The following items are designed to be hot swappable to allow easy and quick replacement:
  - Media converters
  - Redundant Power supplies
- Provides cooling fans at the back together with power supply
- > Power redundancy & power isolation
- One high quality internal power supply provided, and a second power supply option for load-sharing purpose.
- Load sharing mechanism: If one power supply should fail, the redundant power supply is capable of taking over immediately
- The Media Converter's power isolation ensures each bay is electrically isolated from each other

## **UNPACKING AND INSTALLATION**

This chapter provides unpacking and installation information for the Switch. To avoid causing any damage to the Switch, we recommend that you read this chapter carefully before starting installation.

#### Unpacking

When unpacking the product package, you shall find these items listed below.

- > 19" Media Converter Chassis System
- One power supply installed on the chassis
- > One AC power cord
- User's Manual
- Accessories: rackmount screws (8 pcs) & rackmount ears (2 pcs) rubber foot (4 pcs)

If any item is found missing or damaged, please contact your local reseller for replacement.

### Installation

The site where you place the chassis system may greatly affect its performance. When installing, take the following into your consideration:

As with any electric device, you should place the equipment where it will not be subjected to extreme temperatures, humidity, or electromagnetic interference. Specifically, the site you select should meet the following requirements:

The ambient temperature should be between 32 and 104

degrees Fahrenheit (0 to 40 degrees Celsius).

- The relative humidity should be less than 90 percent, non-condensing.
- Surrounding electrical devices should not exceed the electromagnetic field (RFC) standards for IEC 801-3, Level 2 (3V/M) field strength.
- Make sure that the equipment receives adequate ventilation at the rear. Do not block the fan exhaust holes on the rear of the chassis.

The power outlet should be within 1.8 meters of the chassis.

#### Deciding How to Install the System

We strongly suggest that you install the chassis first, as this is more convenient for you to install media converters into the chassis with ease. The accessories supplied in the product package includes: rackmount screws(8 pcs) and rackmount brackets(2 pcs). This well-built chassis can be installed in the following ways:

#### .Mounted to 19-inch standard rack

Use the rackmount brackets and screws to install the chassis into any EIA 19" standard rack.

Step 1: Attach the brackets to each side of the chassis. Apply four screws to each side and secure them tightly.



Step 2: Carefully position the chassis into the rack. Align the brackets to the side holes on the rack and use rack screws to secure the chassis with the rack.



Step 3: Proceed to the "Connecting to Power" section.

#### .Installing Media Converter

The chassis is equipped with sixteen media converter carriers, each of which is fitted into bays of the chassis.

- Step 1: To install a media converter module onto the chassis, you have to unscrew the bay cover from the desired bay first.
- Step 2: Unscrew the hand screw counter clockwise by using hand or screwdriver and pull out the media converter out the carrier as shown below.



Step 3: Carefully slide in the module and fasten the hand screw clockwise by using hand or screwdriver until it is fully and firmly fitted into the slot of the chassis.



Insert the media converter module into an available slot and fasten the hand screw clockwise by using hand or screwdriver.

#### .Connecting to Power (Power Supply)

The chassis ships with only one power supply, and a second power supply option is at your discretion. When the chassis is equipped with two power supplies, you can have the following advanced performance.

Hot Swappable –

The design of the power system is based on an idea of providing maximum flexibility and redundancy. In this way, you may remove any of the two power supplies without turning off the system.

• Redundancy –

During operation, both power supplies are switched on and share the current load. In case that one of them should fail, the other will instantaneously take 100% of the load without any loss. Similarly, if one power supply is removed from servicing, it can be switched off and removed while the chassis continues functioning.

Protection System –

The power of each converter bay comes from the two shared power supplies. Each bay is isolated from each other under a certain protection mechanism, so that it is free from any problem that might occur to the power supplies or faulty converter bay. This is the best solution to protect your investment in media converters.

Attention! There is an optional solution for the backup power, blt DC to DC Power Supply.

The chassis system is equipped with one power supply and allows one additional power supply for redundancy. For reliable operation, we suggest that you run the chassis system with two power supplies are in place.

- Step 1: Connect the supplied AC power cord to the back of the chassis.
- Step 2: Attach the plug into a standard AC outlet with a voltage range from 100~240Vac.
- Step 3: Turn on the chassis system by flipping the switch beside the receptacle to ON position. The LED on the front panel of power supply will come on then.

#### Installing and Removing the Power Supply

- To remove a power supply out the chassis, you have to loose the hand screw counter clockwise and pull out the power supply from the chassis.
- To install a power supply to the chassis, you have to fasten the hand screw clockwise and slide in the power supply to the chassis.



You can slide in and out the power supply from the bay, fasten or loose the hand screw clockwise or counter clockwise by using hand or screwdriver.

Attention! If the Chassis System needs to work alone, you can k up four Rubber foot below the chassis!

## UNDERSTANDING LED INDICATORS

The front panel LEDs provide instant status feedback, and, helps monitor and troubleshoot when needed.

Front Panel

There is an array of LED indicators, which provides you with instant feedback on the status of the power and the fan.

DMC-1000
12 Power 00
Power Fail O O
Fan Fall O O
<b>D</b> -Link

Power and Fan LED

1 / 2	Indicates which the power (fan) is working, depends on where the power supply was installed at the rear.	
Power LED	On (Green)	Power supply feed in
	Off	No power supply feeding
Power Fail LED	On (Amber)	Faulty power supply
	Off	Power supply works normally
Fan Fail LED	On (Amber)	Faulty Fan
	Off	Fan works normally

# **TECHNICAL SPECIFICATIONS**

Chassis System			
Capacity	Sixteen bays for housing up to sixteen media converters		
Material	Steel		
Power	One power supply provided, hot- swappable		
	*A second power supply for load-sharing is optional, also hot-swappable		
Cooling	Two fans mounted together with the power supply or alone at the rear		
LED Indicators	2 LEDs for fan status		
	2 LEDs for power feeding in status		
	2 LEDs for power supply's power status		
Dimensions	W415 mm × D 390mm × H89 mm		
	Standard 19" size, 2 U		
Net Weight	7.0kg approx.		
	(*Only one power supply included)		
Emissions	FCC Class A, CE Mark Class A, VCCI Class A		

Fan			
Rated Voltage	12Vdc		
Speed	3200 RPM +/- 250 RPM		
Air Delivery	42.5 CFM per min.		
Noise Level	36.5dB(A)		
Bearing System	Precise ball bearing system		
Dimensions	80 × 80 × 25 mm		

Power Supply				
AC inputs:	100 to 240 VAC, universal power supply			
Power Consumption :	150 watts. (max.)			
Temperature	Operating: 0°~40° C, Storage: -10°~50° C			
Humidity	Operating: 10% ~ 90%, Storage: 5% ~ 90%			
Overload Protection	All outputs protected from short circuit condition, automatic recovery			