

## LC-MCC14AA 14 Slot Unmanaged Media Converter Chassis User's Manual

Please read this before installing your product.

### Product Description

The LC-MCC14AA 14-slot media converter chassis supports plug-and-play installation of any stand-alone L-com LC-MCG Series 10/100/1000TX to 1000FX media converters. All chassis models can be mounted into a 2U (3.5 inch) rack space on a standard 19 inch rack.



14 slot rack-mounted chassis Fig. 1

### Packing List

The box should contain the following items:

- (1) LC-MCC14AA 14-Slot Media Converter Chassis with dual power supplies installed
- (2) AC Power Cords
- (14) Media Converter brackets (for securing to chassis)
- This User's Manual

Please notify L-com immediately if any items are missing or damaged.

### Product Overview

L-com's LC-MCC14AA 14-Slot Media Converter Chassis provides real-time power backup. Each chassis comes equipped right out of the box with dual redundant power supplies. The LC-MCC14AA chassis is compatible with any of the L-com LC-MCG series media converters (see compatible media converter chart on page 4).

The Media Converters can be hot-swapped to change configuration requirements or replace malfunctioning units without the need to power down the chassis. Both power supplies feature status LED's (Green = Functioning) (Red = Problem) to help you quickly identify which unit is experiencing a problem. There is also an audible alarm that sounds to alert you to the situation. The Dual power supplies are also truly hot-swappable, allowing you to replace a bad unit while the second unit continues to power the chassis and installed converters, minimizing network disruptions. L-com also offers replacement power supplies so that you can keep an emergency spare on hand or be able to quickly order a replacement in the event you need one.

## Installation of the Chassis and Media Converters

1. Mount the LC-MCC14AA chassis into a standard 19 inch rack cabinet or enclosure utilizing the integrated rack mount ears. Secure the chassis with 4 rack screws (not included) that typically come with 19 inch rack products.
2. Plug the provided power cords into each of the power supplies then plug them into the nearest AC outlet
3. Switch on both of the power supplies to verify you have power available and confirm that the supplies are functioning correctly. The Green LED and cooling fan should turn on if functioning correctly.

**Note:** It is normal for the audible alert to sound briefly when first turning on the power supply units

4. Remove the blank plates from the face of the chassis as needed for the quantity of media converters you are planning to install.  
(The blank plates come in 2 sizes the first two cover one slot each and the remaining 3 plates cover 4 slots each)
5. Locate the package of media converter retention brackets included with the chassis
6. Before installing the bracket onto one of the LC-MCG series Media Converters place the media converter on its side with the DC jack and the air vent facing up (See Figure. 2).



Figure 2.



Figure 3.



Figure 4.

7. Remove the media converter housing screws (See Figure. 3). Do not discard these as you will need them to finish attaching the bracket.
8. Line up the retention bracket with the holes in the media converter housing and secure with the screws you removed in Step 7. (See Figure 4.)
9. Slide the Converter into the chassis, making sure to seat the unit properly onto the Power connection at the back of the slot, then secure the converter to the chassis by using the bracket you installed in Step 8 (See Figure 1. For example)
10. Repeat Steps 7-9 for each of the media converters you plan to install into the chassis.
11. The last step is to connect your network cabling to the media converters.

## Specifications

ITEM	SPECIFICATION
Number of Slots	14 Slots
Media Converters Accepted	Any of the L-com LC-MCG Series Media Converters
Power In	AC 120V~220V 50/60Hz
Power out	DC 5V 12A
Power Supply Protection	3A Fuse
Dimensions	17L x 9W x 3.5H Inches (43.2cm x 22.9cm x 8.9mm) 19.25L Inches (Including Rack Ears) (48.9cm)
Temperature	Operating: 32°~113°F ( 0°~45°C) Storage: 14°~158°F (-10°~70°C)
Humidity	Operating: 10~90% (non-condensing) Storage: 10~90% (non-condensing)

## Ordering Chart

<b>LC-MCC14AA</b>	14 Slot Media Converter Chassis with Dual AC Units
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## Accessories

<b>LC-MCCPWR-AC</b>	Replacement AC Power Supply for LC-MCC14AA Chassis
<b>LC-MCC14-BRKT</b>	Replacement Brackets for LC-MCC14AA Chassis (5pk)
<b>LC-MCC14-SCRW</b>	Replacement Bracket Screws for LC-MCC14AA Chassis (10pk)

## Maintenance Procedures

### 1. Troubleshooting:

If the electric current is dangerously high, the Red Power Supply LED will turn on and an audible alarm will sound. Once the current has returned to a normal level it will revert back to the Green LED and the audible alarm will cease.

- If the power supply has its Green LED lit indicating that it is functioning correctly but the power LED's on the converters are off pull out the media converters and make sure to reseat them properly onto the power connector at the back of the slot. If you have confirmed that the converters are properly seated then there might be a problem with the connection between the chassis plug board and the power supply. Pull out the power supply and check the connection points of the power cable that plugs into the power supply that comes from the chassis board to make sure they are clean and connected properly.

### 3. Replacing power supply:

If one of the dual power supplies fails the chassis will continue to work normally with the remaining unit

**Step 1.** Unplug the AC power cord from the failed power supply unit and then loosen the thumbscrews.

**Step 2.** Carefully pull the power supply unit out of the chassis and locate the power cable that is connected to the power supply. Carefully depress the release and remove the connector and set aside the failed unit.

**Step 3.** Connect the power cable from the chassis board into the NEW power supply you are installing.

**Step 4.** Carefully slide the NEW power supply unit into the chassis and secure it with its thumbscrews to the chassis

**Step 5.** Plug in your external power cord

**Step 6.** Switch on the NEW power supply to re-establish your redundant power set up.

## Troubleshooting Media Converters

Problem	Cause	Resolution
POWER LED is off	Power plug is not inserted or not connected properly.	Pull the media converter out of the chassis and make sure to carefully reseat it onto the DC power connector at the back of the slot.
TP/ACT LED is off	No Cable is connected or no Network connection available	Make sure that your network cable is connected properly to the media converter as well as your network device
FX /ACT LED is off	1. The optical port of the remote device may be faulty.	Check the optical devices and the fiber cable to make sure they are in good condition. Replace if necessary.
	2. The fiber cable is damaged or not inserted properly.	
	3. The optical fiber has too much loss.	
TP/ACT and FX/ACT LEDs are lit but no data is transmitting.	1. The connection between optical fiber and devices is not correct or loose. This may cause the TX power to be insufficient.	1. Check the fiber connectors and make sure the connection between optical fiber and devices is correct and secure.
	2. There may be some sort of network congestion or IP conflict.	2. Try to turn the devices off and then turn them back on after a moment, to see if the issue resolves itself.

## Compatible Media Converters

<b>LC-MCGMM-ST</b>	10/100/1000TX RJ45 to 1000SX Multimode Duplex ST
<b>LC-MCGMM-SC</b>	10/100/1000TX RJ45 to 1000SX Multimode Duplex SC
<b>LC-MCGSM-ST</b>	10/100/1000TX RJ45 to 1000LX Single mode Duplex ST
<b>LC-MCGSM-SC</b>	10/100/1000TX RJ45 to 1000LX Single mode Duplex SC
<b>LC-MCGSFP</b>	10/100/1000TX RJ45 to Single SFP Socket