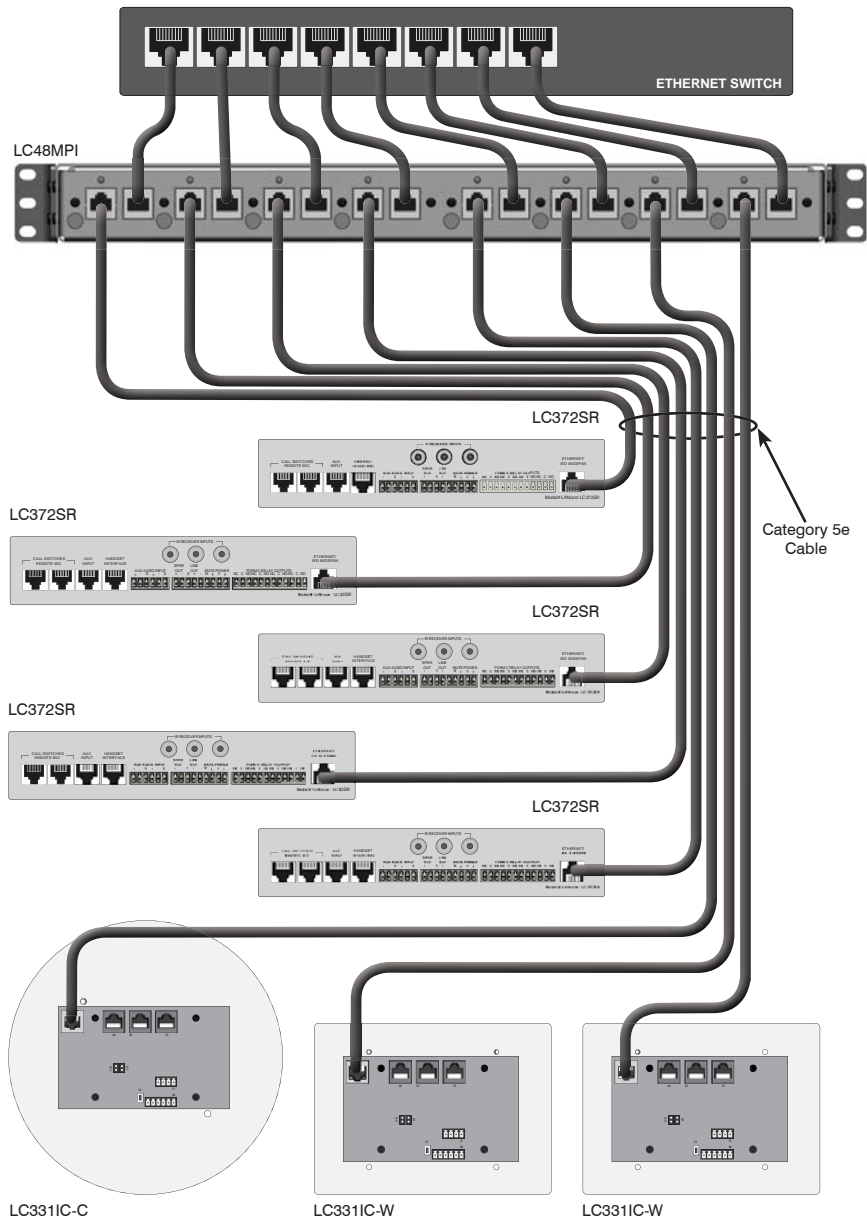


CONNECTION DIAGRAM



Innovative Electronic Designs, LLC
 9701 Taylorsville Road
 Louisville, KY 40299, USA

+ 1.502.267.7436 phone
 + 1.502.267.9070 fax
 www.iedaudio.com



LC41PI / LC48MPI
 POWER INJECTORS
 Installation Instructions

INTRODUCTION

The LC41PI and LC48MPI Power Injectors are an integral part of the LANcom SCS system. They provide operating voltage and current for the LC372SR Classroom Sound Reinforcement Module, LC331IC Integrated Communications Module and other LANcom components.

The LC41PI 1-port power injector is a small *power block* that provides up to 1.35 amps of power for one LANcom SCS endpoint device.

The LC48MPI 8-port power injector is a 1RU rack mount unit that provides power for up to eight LANcom SCS endpoints. Each port can supply power to devices such as the LC372SR classroom sound reinforcement module with its 30 watt amplifier. Every port is fuse protected and all ports can provide up to 1.35 amps simultaneously. Includes eight 3' CAT6 patch cables

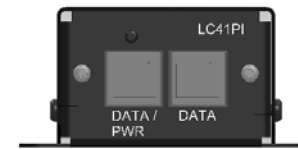


Figure 1 - LC41PI Front View



Figure 2 - LC48MPI Front View

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Only use attachments/accessories specified by the manufacturer.
10. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

SAFETY SYMBOLS

Labeling on products and the *Installation Instructions & User Manual* may use safety related graphical symbols as shown below to note safety requirements.

Lightning Bolt: The lightning flash with arrowhead symbol, within an equilateral triangle, WARNING symbol, is intended to alert the user to the presence of un-insulated **dangerous voltage** within the product's enclosure that may be sufficient in magnitude to constitute a risk of electric shock to persons or domestic animals.

Exclamation Point: The exclamation point within an equilateral triangle, CAUTION symbol, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions, or a hazard that can damage equipment.

Do not proceed beyond a WARNING or CAUTION notice until you have understood the hazardous condition and have taken appropriate steps.

CONNECTIONS

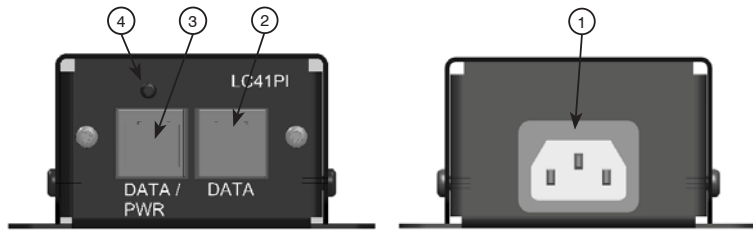


Figure 3 - LC41PI Front and Rear Views

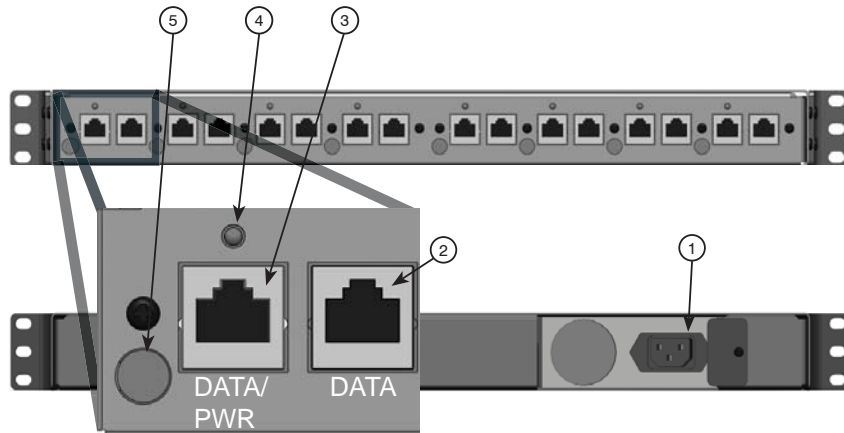


Figure 4 - LC48MPI Front and Rear Views

1. Power Connector

This connector to attach a power cord to provide AC power to the device.

2. Input RJ45 (Data) Connector

This input RJ45 connector is used to connect to a network switch. This port connects to a non-powered network switch and uses a connector wired as shown in Table 1.

3. Output RJ45 (Data / PWR) Connector

This output RJ45 connector is used to connect to a LANcom endpoint device that requires PoE for operation. This port provides both data and +48V DC power to the device. The connector should be wired as shown in Table 2.

4. Indicator LED

This blue indicator LED indicates that power is present at the Data / PWR port.

5. Fuse

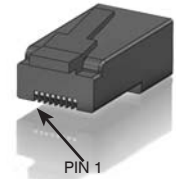
This is a replaceable fuse that protects the output of each port from drawing too much current.

RJ45 Connector Wiring

Each pair of ports connects to either a network switch or a LANcom endpoint device using CAT5e or better structured cable. Each connector should be wired as shown below.

Pin	Function	CAT5 Color Code
1	Data Rx +	Orange /W
2	Data RX -	Orange
3	Data TX +	Green /W
4	Not Used	Blue
5	Not Used	Blue/W
6	Data TX -	Green
7	Not Used	Brown /W
8	Not Used	Brown

Table 1 - RJ45 Input (Data) Connector Wiring



Pin	Function	CAT5 Color Code
1	Data Rx +	Orange /W
2	Data RX -	Orange
3	Data TX +	Green /W
4	+48V DC	Blue
5	+48V DC	Blue/W
6	Data TX -	Green
7	-48V DC (Ground)	Brown /W
8	-48V DC (Ground)	Brown

Table 2 - RJ45 Output (Data / PWR) Connector Wiring

Fuse Replacement (LC48MPI Only)

If a fuse is blown, it can be replaced as shown in Figure 5. Use caution to ensure that the pins are properly aligned when inserting a new fuse.



Figure 5 - Fuse Replacement (LC48MPI)

Specifications

Electrical

Input Voltage	85VAC – 264VAC, 50Hz – 60Hz
Output Voltage	48VDC
Output Current (per port)	1.35A
Fuse (LC48MPI per port)	1.5A slow-blow

Mechanical

<i>LC41PI</i>	
Dimensions	3.5" W x 1.75" H x 6.375" D (88.9mm W x 44.5mm H x 161.9mm D)
<i>LC48MPI</i>	
Dimensions (with rack ears)	19" W x 1.75" H x 10.53" D (482.3mm W x 44.5mm H x 267.5mm D)
Width (without rack ears)	17.01" (431.8mm)