

# SHOWCRAFT LINK + OPTO ISO MODULES

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THIS UNIT IS  
MADE USING  
SHOWCRAFT  
MODULES

## INTRODUCTION

The Showcraft Link and Opto Iso modules form flexible parts of a DMX (DMX512 1990 compliant) distribution system that can be constructed and added to, as the need for a larger system develops.

These units are ideal for permanent installation into theatres, convention centres, theme parks, nightclub, etc. They are also suitable for building into touring cases.

The modules are linked together with 10 pin IDC connectors which feed power, DMX data, and pins 4,5, which may be used by some lighting equipment for talkback. The connector features a polarising pin, which ensures that the IDC loom can only be inserted to its mating connector in the correct orientation.

## POWER SUPPLY

Power for a group of modules can be from a simple plug-pack style transformer for small setups. Switchmode supplies work well for larger systems, and are lighter in weight than the equivalent traditional supplies. Battery backup may be considered for situations where loss of power to the DMX distribution system may occur. The power supply must be able to supply the peak power required by all the modules connected to it.

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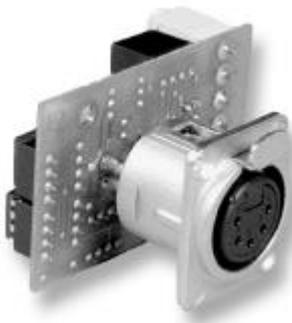
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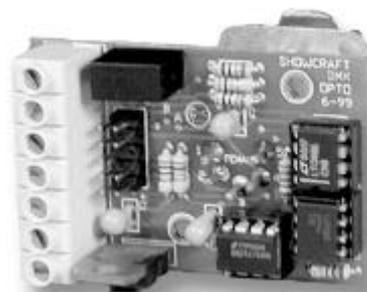
**LINK MODULE**



The Link module provides two PCB mounted 5 pin XLR connectors - DMX In and DMX Link Out, a DMX receiver, transmitter, and options to add DMX detection. The Link module provides a buffered feed of the DMX signal presented at the DMX In XLR through the 10 pin IDC on-board connector. The buffered output can drive up to 32 DMX loads. The link module presents a load of 1 to the DMX IN XLR connector.



**OPTO-ISO MODULE**



The Opto Iso module receives DMX data from the 10 pin IDC or on-board screw terminals, and provides a fully electrically isolated DMX feed (pins 2 and 3) to its PCB mounted female 5 pin XLR connector. The isolated output can drive up to 32 DMX loads. The opto ISO presents a load of 1 to the IDC/screw terminals. The isolated output is totally isolated from the input data. This will stop any earth loop problems in DMX distribution systems. Also, in the event of a DMX device failing, which may feed 240VAC or more down the DMX feed from that device, the opto-ISO module will protect the other DMX feeds from damage.