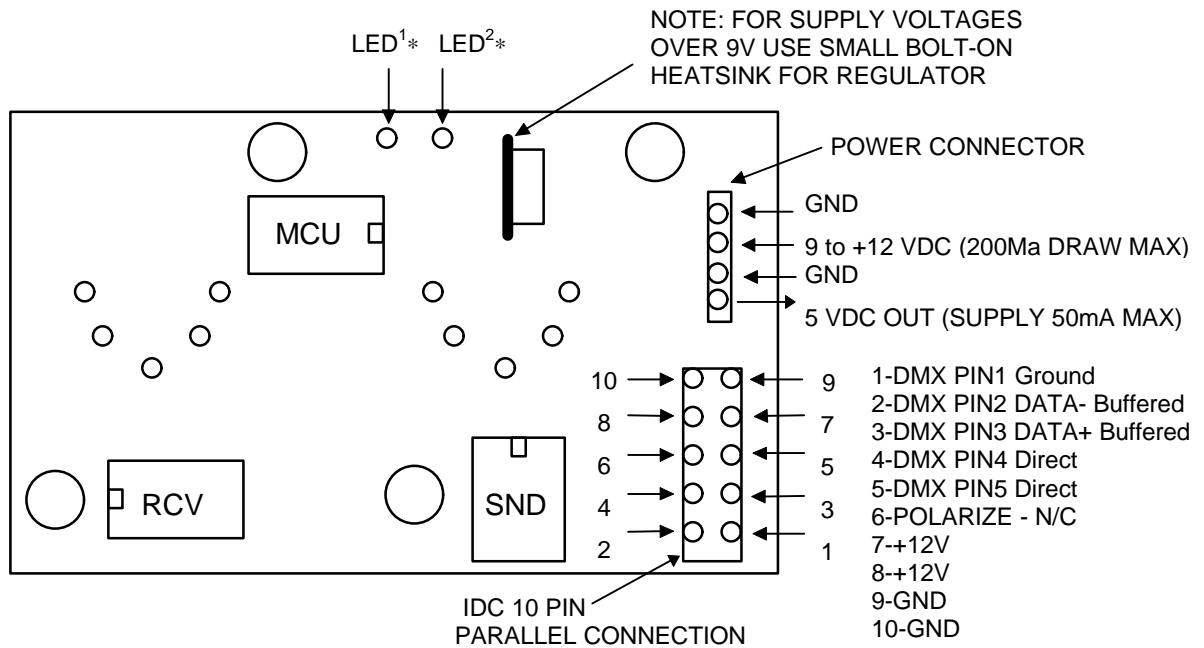


CONNECTIONS FOR SHOWCRAFT DMX LINK BOARDS



\* LED<sup>1</sup> and LED<sup>2</sup> are for use with the MCU option.

VIEW FROM COMPONENT SIDE OF BOARD

**Signal**

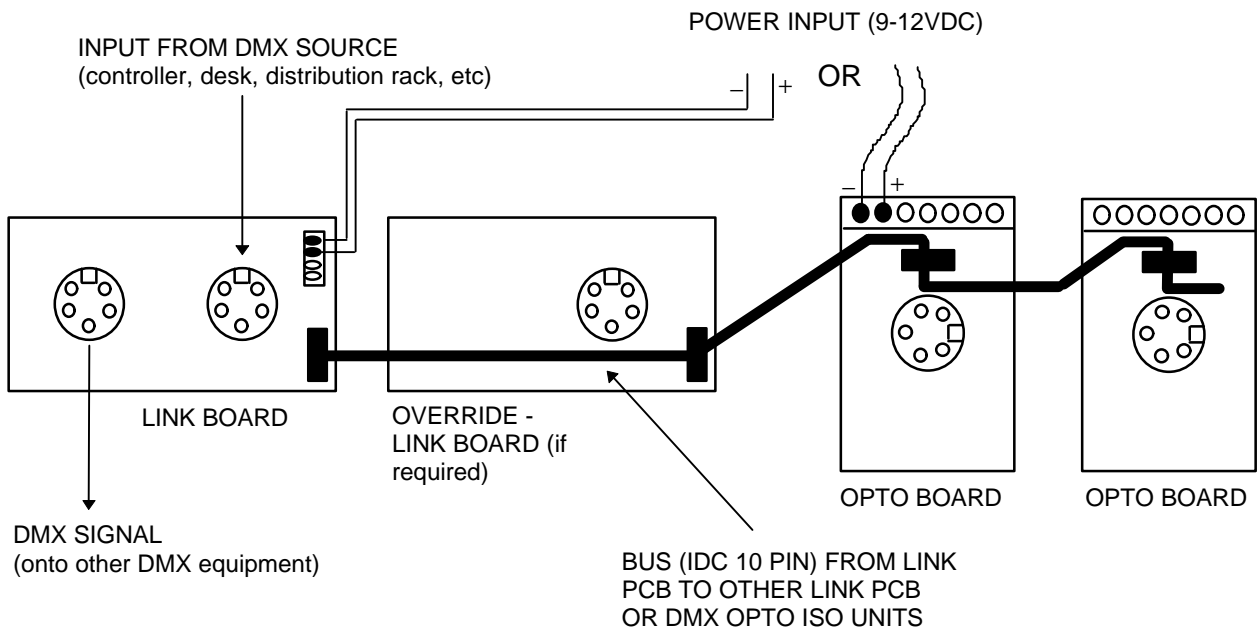
PCB mounted 5 pin XLR connectors are linked PIN1 to PIN1, PIN2 to PIN2, etc. The DMX signal detected across pins 2 and 3 is buffered for outputting on the 10 pin IDC. PIN1, PIN4 and PIN5 are connected directly to the 10 pin IDC.

**Power Options**

1. Through power connector on Link PCB.  
or
2. Through IDC loom, where power comes from other devices.

**Optional Configurations - Using Microcontroller (MCU)**

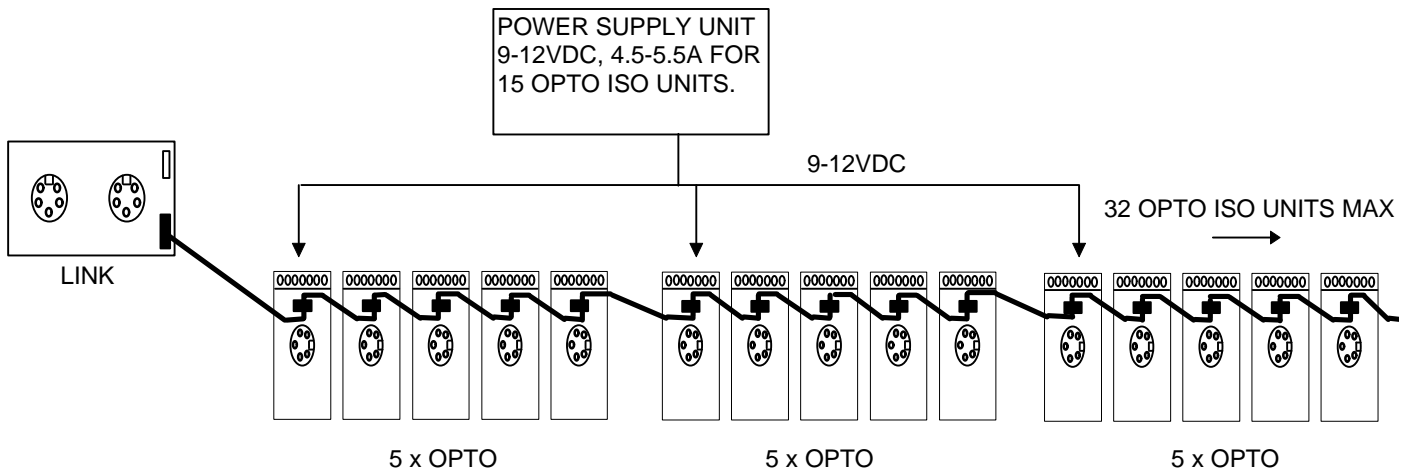
DMX signal detect / LED signal indicators / DMX stream override options / DMX priority changeover.



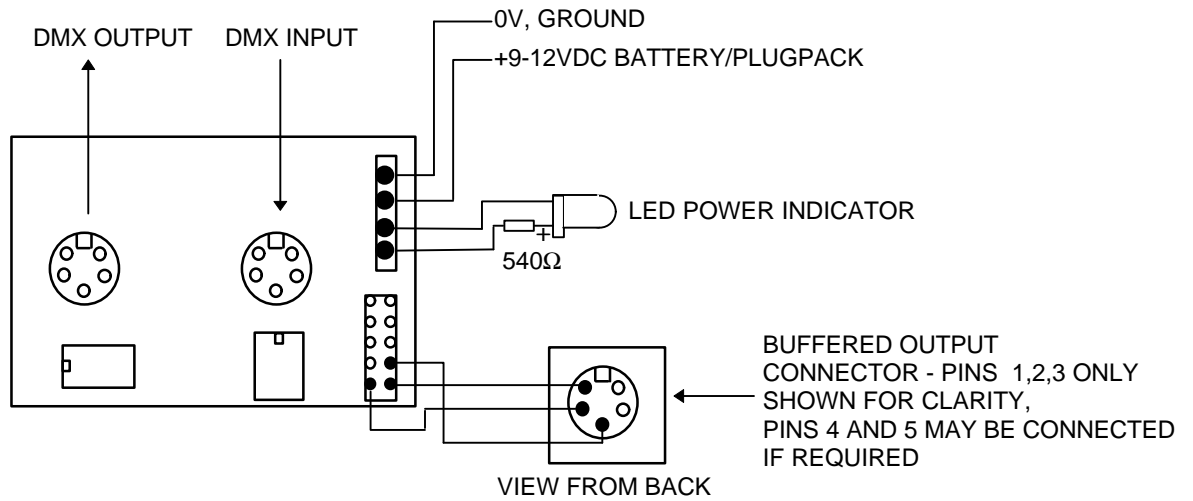
Up to 32 isolator boards can be connected to the link PCB. Each isolator output will supply up to 32 DMX devices once again.

Each Link and Opto Iso PCB can draw 200mA peak, although much lower in normal operation - each 5 x Optos should be allocated 1.5 - 2A DC. Allowing less than this to each module may cause loss/corruption of DMX data if the DMX distribution system is driving maximum loads, with terminators at each DMX branch.

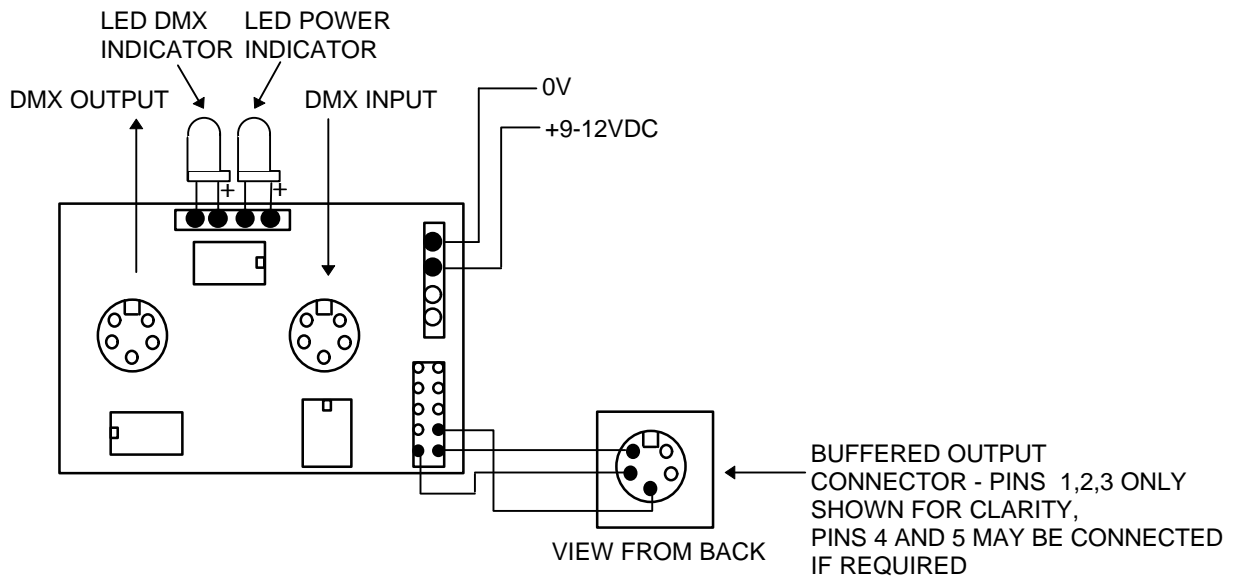
Although power runs down the IDC connector, it may be wise to make several points where power is fed if there are more than 5 units, to compensate for voltage drops if one or more Opto Iso units are driving maximum load.



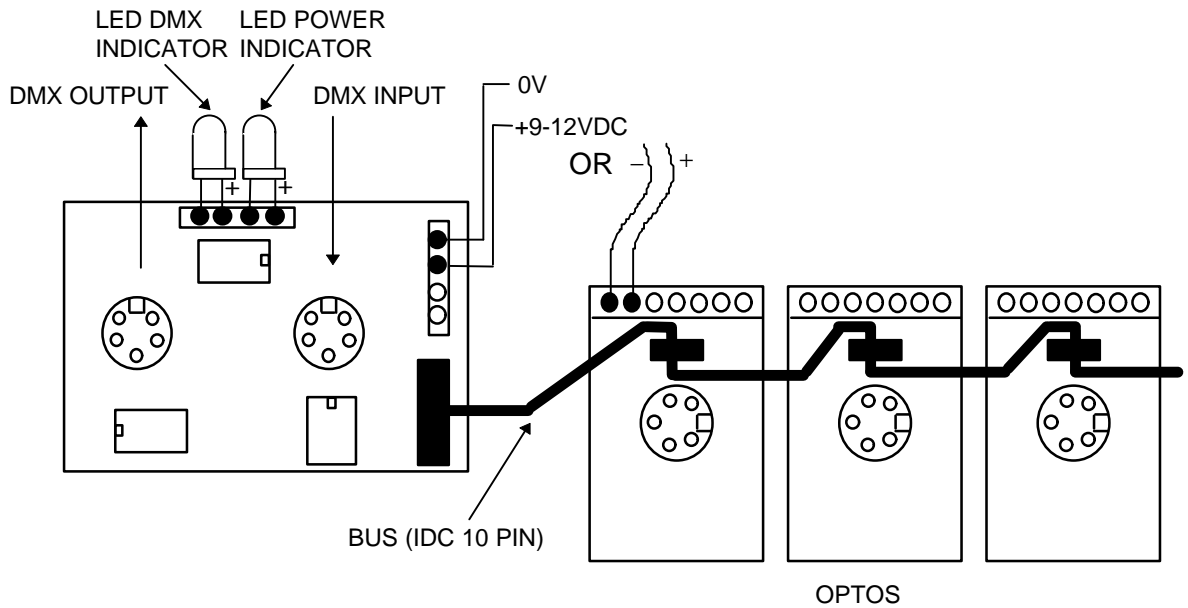
1. 1x Buffered DMX output, male/female Link input. Using plain Link PCB.



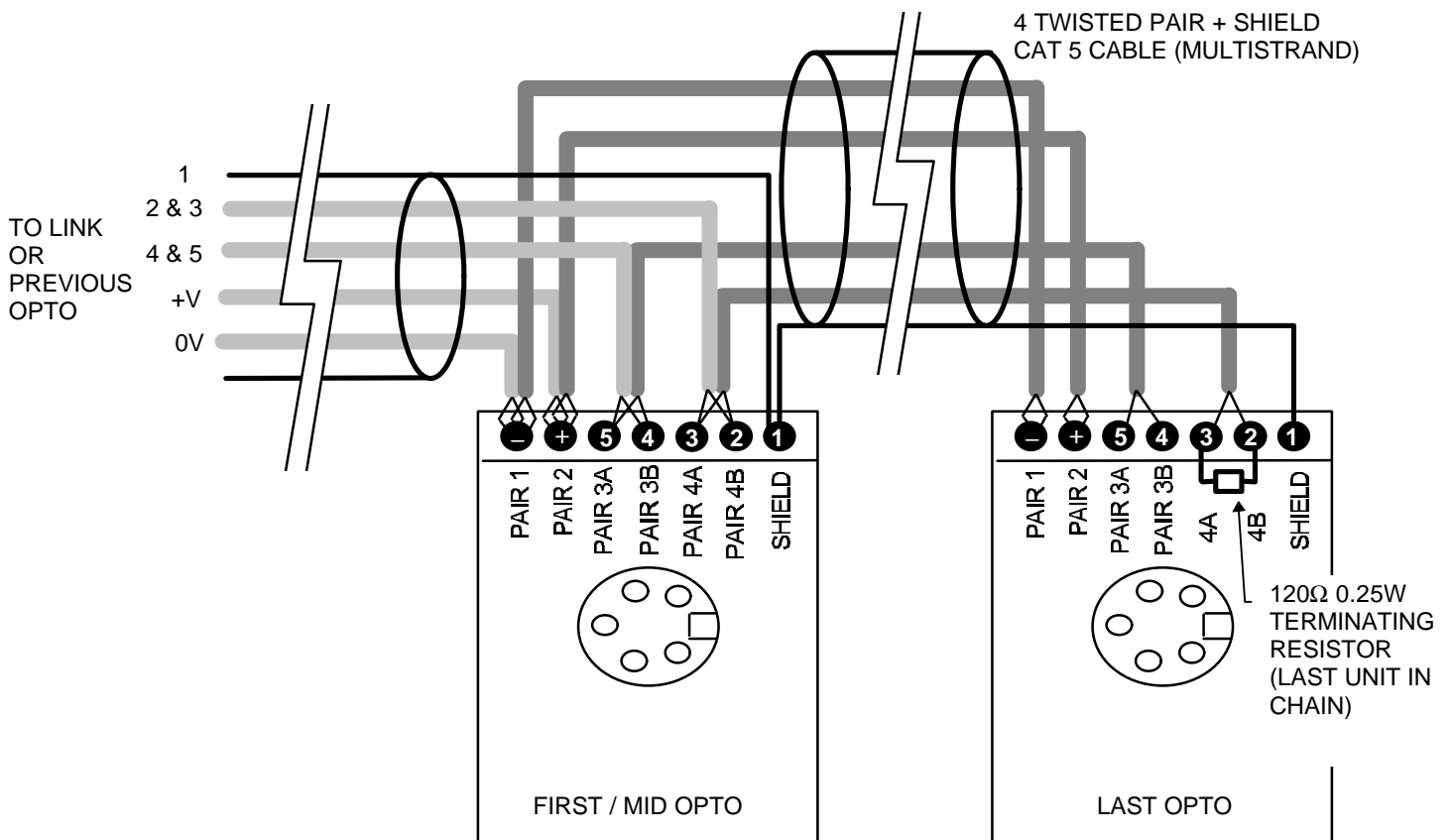
2. Buffered DMX output, male/female Link input, DMX signal LED, power LED. Using MCU Link PCB.



3. 3x Isolated DMX outputs, male/female Link input, DMX signal LED, power LED. Using MCU Link PCB and Optos.



4. Connection of modules in a building installation using CAT5 cable. The DMX source originates from a link module. Cable runs should be 1600m maximum. Power supply should be distributed over a large system.



The above examples show how the DMX link PCB can be used. Many more examples can be achieved. Please contact Showcraft Australia for information.

**SPECIFICATIONS :**

Input Load: One single load RS485.

Output Drive: 32 Loads RS485.

Compliance: USITT DMX512 Standard.

PCB Size: 34mm (w) x 60mm (h).

Clearance depth: 60mm from rear of mounting plate.

Output connector / Parallel interconnect: 10 Pin IDC.

DMX Input connector: XLR series 5 pin Male.

DMX Link Out connector: XLR series 5 pin Female.

Power supply: 9 Volts DC to 12 Volts DC 200mA

**Options:**

Microcontroller - Detecting presence of DMX, Override, Priority, etc.

2 LEDs - Shows presence of DMX, DMX priority indication.