

OVERVIEW

Pathway eDIN Opto-Splitters are an essential component of DMX512 distribution systems, permitting star-wiring while protecting connected equipment from electrical faults.

The DIN form factor makes installation fast and easy.

CONNECTIONS

eDIN Opto-Splitters feature terminal strips that can be removed from the module to facilitate wiring. Make the following connections, *WITH THE POWER TURNED OFF*:

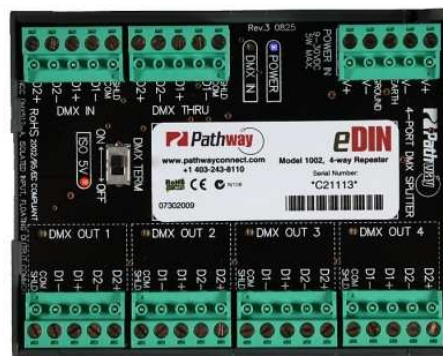
POWER

The module will run on a range from 9 to 30 VDC at 500mA per card connected. Observe the correct polarity when connecting to the V+ and V-. A second set of terminals are provided on the connector to daisy-chain power to other eDIN modules. A grounding terminal is also provided for connection to earth ground.

DMX

DMX connections consist of a shield and one or two data pairs. The two DMX IN usually come from control consoles, architectural controllers or opto-splitters. DMX THRU pins on each connector may be daisy-chained to the DMX IN of other eDIN modules or other DMX equipment. DMX OUT sends the merged signal and is connected to the DMX inputs of the appropriate downstream devices.

Connect the DATA+ and DATA- wires to D1+ and D1- respectively for each of DMX A, DMX B and DMX OUT. Observe the same polarity convention throughout the system. Connect the cable shield to the SHLD COM terminal.



STATUS INDICATORS

- POWER** Blue. Glowing steadily indicates power supply OK; off indicates no power.
- DMX IN/ OUT** Amber. Glowing steadily indicates DMX is present; off indicates no incoming DMX
- DMX ISO** Red. Glowing steadily indicates the isolated power supply for the outputs is OK.

DMX TERMINATE

The rules of DMX require the last device on a DMX line be terminated with a 120Ω resistor between pins 2 and 3 to prevent signal reflection. If there is no connection to the DMX THRU terminals, the DMX Terminate switch should be ON. If there are other devices connected to the DMX THRU terminal, the DMX Terminate switch should be OFF and termination be applied to the final device in the daisy-chain.

DMX REFERENCE

DMX	XLR5 pin	eDIN terminal
Common	1	SHLD /COM
Data -	2	D1-
Data +	3	D1+
unused	4	N/A
unused	5	N/A

SPECIFICATIONS

POWER SUPPLY:	9-30VDC, 500mA
INPUT SIGNAL:	USITT DMX512A
OUTPUT SIGNAL:	USITT DMX512A
CONNECTIONS:	Two piece compression screw terminals Accepts AWG 24 to 14, stranded or solid

