



DMX-S8

**DMX 8-way Splitter Module
Information and Installation Guide**

OVERVIEW

The DMX-S8 is an 8-way splitter modules designed for fixed installations. The module splits incoming DMX data into 8 outputs, while reconditioning and boosting the signal for extended reach. Each output has been hardened to protect against short-circuits, 10 kV ESD, as well as 4 kV EFT transients and 5 kV surge transients. It features an optically-isolated receiver to eliminate ground loops. An optional kit is available for mounting the module on a DIN rail.

The module may also be used as a standard RS485 splitter module for data rates up to 250 kbps.

ORDERING INFORMATION

Model	Output Channels	DIN Mounting Kit
DMX-S8	8	DIN-DMX-S8

MODULE INFORMATION

Dimensions	5" x 2.875"
Supply Voltage	10.8 – 26.4 VDC
Power Consumption (max.)	TBD
Output Channels	8
DIN Rail Mountable	Yes, with optional kit
DMX IN Isolated Receiver	Yes, 1kV isolation
DMX IN Termination	Yes, shorting-shunt / jumper selectable
DMX THRU Port	Yes, passive loop
DMX Unit Load	1
DMX Update Rate	Full 44 updates/second
RS485 Unit Load	1
RS485 Signalling Rate (max.)	250 kbps

OPERATION

Each output replicates the data from the incoming DMX signal, and is able to drive up to 32 DMX fixtures. A total of 256 DMX devices may be connected if all output channels are used. The ACT LED flickers when activity is detected on the incoming signal, and turns off if data loss is detected. The intensity of the ACT LED depends on the level of activity of the incoming signal, and may appear to be very dim or off if activity is sporadic. The PWR LED lights when power is supplied to the module.

INSTALLATION

- Mount securely using mount points on corners of PCB (4 x 3.2mm dia. for M3 screws), or with optional DIN mounting kit.
- Connect power supply to "VDC IN" terminals.
- Connect DMX output from DMX master or previous unit to "DMX IN" terminals.
- Connect "DMX THRU" terminals to next unit. If the DMX-S8 is the last unit in daisy chain, short the "R" jumper to terminate the DMX bus with the built-in 120R resistor.
- Connect controlled devices to DMX outputs.

BOARD LAYOUT

