

**GODDARD DESIGN COMPANY DMX512 DATA
DISTRIBUTION PRODUCTS:
SMART SPLITTER 5i- Part number: FX SMSPL 5i**

The **SMART SPLITTER 5i** is a single input five output data distribution isolation amplifier, designed for use with lighting/moving light controls using USITT DMX512 (1990/1986) protocol. In addition to the five buffered and fully isolated outputs the unit also has a data loop through so in the event of power failure data will still pass through the unit. Power for the unit is via a fused Euro chassis plug and mating socket.

SYSTEM OPERATION

DISPLAYS: The Smart Splitter 5i will display the following.

- ★ MAINS ON SWITCH will be lit when the unit is powered and switched on.
- ★ POWER ON via the red led. Show that the on board power supply is active.
- ★ DATA active via the green LED. In normal operation the data led may flash as it detects the data breaks. Slow data or long breaks will also make the data led flash. The data led tells you there is something happening on the line. It will not tell you if the data is good or indeed DMX512.

LOOP THROUGH and TERMINATION: The DATA THROUGH XLR is a retransmitted and buffered copy of the DATA IN input. The DATA IN connector is fully terminated when the unit is powered. In the event of power failure the termination and re-buffering system is disconnected and data is passed directly through the DATA IN to the DATA THROUGH.

Looped through data can also be taken from any of the five isolated outputs, gaining the isolation, but data will be lost in the event of power failure.

DATA OUTPUTS: Each of the five data outputs is fully isolated from the input and the other four outputs. In addition the output is protected against AC or DC voltages coming back onto the DMX line from other sources such as scroller power supplies and sad attempts to soldier an XLR extension cable correctly.

POWER SUPPLY: The mains input to the transformer is via a 2A a/s fuse and the transformer may be switched to 120 volt operation via the internal PCB mounted selection switch. A spare fuse is provided in the input connector block on the rack unit.

19" RACK MOUNTING: The rack version of the Smart Splitter 5i is provided with a pair of 'ears' for fitting into a 19" rack frame. The ears are fitted to the unit by removing the two screws on either side at the front of the unit. The stick on rubber feet (used when the unit is free standing) will need to be removed from the underside of the unit.

**GODDARD DESIGN COMPANY
51 NASSAU AVE - BROOKLYN NY 11222
718 599 0170 - 718 599 0172 FAX
<http://www.goddarddesign.com>**

Technical Specifications:

Case:	19" Rack Front or Rear connectors
Dimensions:	230/265mm inc. front handles x 430mm x 32mm
Weight:	4.0 Kg
Power:	190/250V AC Nominal 2A 240V AC
Data:	DMX512 1986/1990
Pin wiring:	Pin 1 Common, Pin 2 minus data, Pin 3 plus data. Pins 4 and 5 are not connected on any connectors.

General Information:

This product may only be used for controlling dimmers and moving lights. It must not be used in DMX512 applications for stage machinery or pyrotechnics. Using the product out of these specifications will remove all responsibility from the supplier.

CE Declaration of conformity:

GDC declares that the following equipment meets the requirements of the EMC Directive 89/366/EEC.

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November 4, 2004

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