

# XTBA SMART SWITCH

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# XTBA

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The **XTBA Smart Switch 2:1** is designed to give priority to two streams of DMX data allowing two DMX streams to be on line and switched over in the event of data failure on DMX1 or by the use of DMX channel 510. Before the unit switches over the Smart Switch calculates the start of the next DMX packet to provide a 'glitch' free change over.

The Smart Switch can be used as an on line back up or simple routing system.

### OPERATION

On power up the Smart Switch will sequence the LED's on the front panel. This tests the LED's and the micro controller. The Smart Switch has two modes of operation dependant on the internal switch setting. (Factory setting is Mode 1). In Mode 1 the front panel LED's will sequence left to right. In Mode 2 the LED's will sequence right to left.

#### Mode 1 – Factory setting

DMX data is connected to DMX1, which is the main data stream and DMX2 which is the 'back up'. DMX1 monitors the incoming data for Break, Mab and valid words. In the event of data failure or invalid data on DMX1 the Smart Switch will route the output to DMX2.

The front panel LED's display the following DMX1 good, e.g. Break, Mab and data words OK. DMX2 good e.g. Break and Mab and data words OK. The backup led is lit when DMX1 has failed due to errors or has been disconnected and the output control is switched to DMX2 provided this is also valid.

#### Mode 2

By switching the internal PCB mounted switch (towards the blue crystal) the Smart Switch can be used as a simple data router. In mode 2 control of the incoming data, switched to the output is controlled by DMX1 channel 510. If DMX1 channel 510 is set to full DMX1 IN will be routed to the output. If DMX1 channel 510 is less than full or not connected the output will switch to DMX2. If DMX2 is not connected or is invalid data the unit will not switch over.

By using mode two the Smart Switch can be used as a on line router to enable a remote control to take over from the main desk on DMX2 in by simply bringing channel 510 to full.

In either mode Data on DMX OUT is an exact rebuffed copy of data in, on either DMX1 or DMX2 as the unit solid state switches the data streams.

### POWER SUPPLY

The mains input to the transformer is via a 2A a/s fuse. A spare fuse is provided in the input connector block.

### 19" RACK MOUNTING

The XTBA Smart Switch 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.

Technical Specifications 19" Rack.

Dimensions	230/270mm inc. front handles x 430mm x 40mm
Weight	3.5 Kg
Power	190/250V AC Nominal 2A 240V AC
Data	DMX512 1986/1990
Pin Configuration	Pin 1 Common, Pin 2 minus data, Pin 3 plus data. Pins 4 and 5 are not connected.

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

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



WEE/FC2753ZS