

XTBA NETWORK INPUT MODULE

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XTBA DMX Network Input Modules provide a simple and reliable method of multiple DMX inputs to a single DMX line. They are simple to install and use.

Mounting into the back box

When mounting the Network Modules into the MK back box ensure that the earth screw terminal does not interfere with the modules mounting. On Input Modules the earth terminal should be top right. The room inside the back box is tight, sorry about this as it might make wiring up the system tricky, but hopefully once installed you should not need to open the box again. When screwing the module plate onto the back box ensure there are no trapped cables as a shorted cable to case work will keep you 'amused' for hours tracking down the fault.

Power supply requirements

Each Network Module requires a DC voltage supply between 9 to 15 volts. Each module is locally regulated via the plastic tab voltage regulator - mounted to frame. Provision is also made for input reverse voltage protection by the use of a diode in the power supply feed to the 7805.

Operation

The incoming data from the front panel XLR is fed into a receiver buffer and out to the rear connector via a further buffer. On data reception the Input Module senses the data and will open the power relay on the power out connector. Thus power to any downstream units is disconnected and their data buffers tristate (e.g. have no effect on the line), the down stream modules are then not available, even if data is present on the input XLR. Upstream modules in the line before the active unit will still have power so will be available. In this way the input modules will prevent more than one DMX source being on the line at any time.

Priority

The Input Modules priority can be decided by the positioning of the Power Supply. If the PSU is at the desk end of the line the first module, e.g. the desk, will have maximum priority so if the desk is active all other modules will be locked out and unavailable. If the PSU is at the dimmer end of the line the module nearest the power supply will have priority and the desk module will have the lowest priority.

Input Modules with Output Modules

When Input Modules are used in use with Output Modules care needs to be taken with the power supply layout to ensure that the Output Modules power is kept separate from the Input Modules. Both Input and Output Modules can share the same power supply but must have their own power supply feed.

Earth and Earth Reference

Neither the data input or the data output are referenced to the case metal work. The input data Pin 1 (Screen/Common) is referenced to the PSU common. The output data Pin 1 is floating with reference to the input as it is isolated. The back box should be earthed as this supplies RF suppression to the unit and RF suppression for the DMX data.

Connections: Orange 6 Pin Klippon Connector

PIN 1(next to C8 capacitor)	DATA SCREEN
PIN 2	POWER SUPPLY COMMON
PIN 3	DMX DATA MINUS
PIN 4	DMX DATA PLUS
PIN 5	PLUS VOLTS OUT
PIN 6	PLUS 9-24 VOLTS IN

DISPLAYS

The led on the Network Input Module displays in the following way.

RED	MODULE AVAILABLE
GREEN	MODULE IN USE
NOT LIT	MODULE NOT AVAILABLE

Technical Specifications - fitted into MK back box

Dimensions	85 x 85 x 45mm
Power	9 to 15V DC
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.