

DMX512 Rotor-Router

technical data sheet



The Rotor-Router is a DMX512 distribution system featuring up to 12 inputs and an unlimited number of outputs. A system typically consists of an input module and one or more output modules. Both modules are 1.7"h x 19"w x 12"d and are normally rack mounted. A plexiglass security cover is included to prevent accidental switch changes.

The input module features 12 optically isolated DMX512 inputs on 5 pin XLR connectors (terminal block connections are optional). Each input has two front panel indicators (power and signal). The input module feeds the twelve DMX signals to up to thirty output modules (or more on special order) via a 25 pin D connector (DB-25P). All connections and the power cord are on the rear panel.

The output module features 12 optically isolated DMX512 outputs on 5 pin XLR connectors (terminal block connections are optional). Each output has two front panel indicators (power and signal) and a front panel twelve position rotary switch (to select from one of twelve inputs). The output module receives the twelve DMX signals from the input module via a 25 pin D connector (DB-25P). All connections and the power cord are on the rear panel.

When rack mounted, the 25 pin D connectors on the input and output modules line up in a vertical column; a 25 conductor ribbon-wire assembly joins the modules. When input and output modules are in different locations, 12 pair 120 Ohm data cable is used to connect the modules. Each module has its own power cord.

Split modules may be ordered on a custom basis that have mixed inputs and outputs in a single chassis. Such a unit can have any combination of up to twelve inputs/outputs. For example: 3 inputs 9 outputs (pictured above), 6 inputs 6 outputs, 11 inputs 1 output, etcetera).

SPECIFICATIONS :

Input module

Input circuit: EIA-485 receiver with 120 ohm termination resistor between +Data and -Data.
 Input connectors: Gold plated 5 pin male Neutrik D-1 series (terminal connections optional).
 Output circuit: EIA-485 transmitter with 60 ohm series (source) termination (DMX512 signals on a non-standard connector).
 Output connector: DB-25P (male)

Output module

Input circuit: EIA-485 receiver. A termination plug is required if the output module is separated from the input module by more than six feet.
 Input connector: DB-25P (male)
 Output circuit: EIA-485 transmitter
 Output connectors: Gold plated 5 pin female Neutrik D-1 series (terminal connections optional)

DB-25 pinouts: input #: 1 2 3 4 5 6 7 8 9 10 11 12
 data - pin #: 14 15 16 17 18 19 20 21 22 23 24 25
 data + pin #: 2 3 4 5 6 7 8 9 10 11 12 13
 pin 1 is circuit common

Common specifications:

Isolation: 2500 volt optical coupler, 1500 volt split bobbin transformer
 Power input: 100 - 120 volts, 50/60 hertz, 12 watts (208 - 240 volt optional)
 Size & Weight: 1.74" high, 19" wide, 12" deep, 9 pounds