

## DIGITAL ROUTER

### MXD041

ASI SDI-SD/HD/3G

#### ► Practical and simple

Easily operated

#### ► Front leds indicators

For quick reading of current switching status



#### MAIN FEATURES

- High-quality digital router with equalization and re-clocking
- 4 inputs and 1 duplicate output
- Automatic equalization in all 4 inputs
- Automatic or forced input signal bit-rate detection
- Re-clocking with automatic By-Pass for situations when the signal cannot be re-clocked
- Loss of signal, sync lock and bit-rate indicators
- Self-contained multi-voltage switching power supply
- Possibility of grouping up to 4 individual routers in one rack unit (1U) through optional bracket
- Local manufacturing, support and warranty

Our Digital Routers for ASI and SDI-SD/HD/3G signals are specially designed to perform routing of digital video signals, in compliance with SMPTE 424M, SMPTE 292M, and SMPTE 259M-C standards.

Each router has 4 inputs and 1 duplicate output.

All inputs have automatic equalization, which allows compensation of the losses caused by the passing of high data rate signals through coaxial cables, supporting up to 400 meters of Belden 1694A type cable.

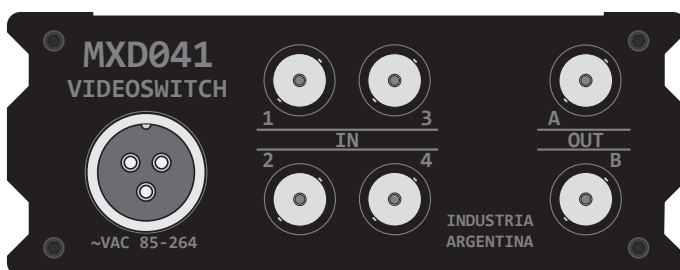
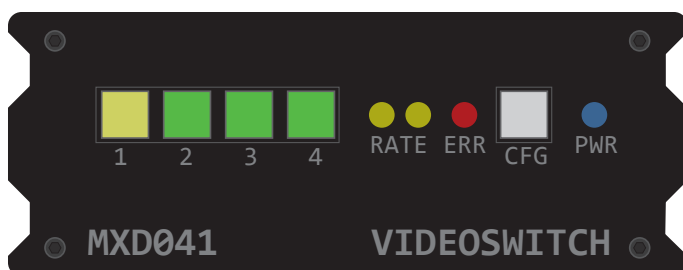
All outputs have automatic re-clocking to recover the original signal clock and re-timing it, thus eliminating the jitter, and offering the highest quality output.

The individual enclosure has a self-contained switching power supply, and it can be mounted on the rack using an optional bracket. This allows grouping up to 4 routers within one single rack unit (1U).

The switching status is saved automatically in case of power failure, so that it can be recovered when the power is re-established.

It has signal presence detection, and the type of signal can be identified (SD, HD, or 3G).

Optionally, the router allows an automatic switching mode, where it switches the output between its inputs in case of loss of signal in any of them.



## MXD041

### ASI SDI-SD/HD/3G

#### INPUTS

- Quantity: 4
- Signal type: ASI, SDI-SD, SDI-HD, or SDI-3G, supporting embedded audio
- Connector: BNC
- Impedance: 75 Ohms

#### OUTPUTS

- Quantity: 1 duplicated output (both positive)
- Connector: BNC
- Impedance: 75 Ohms
- Output signal amplitude: 800 mV +/- 10%
- DC Offset: 0.0 V +/- 0.1 V

#### FEATURES

- Reclocking Bit-Rate: 270 Mb/s, 1485 Mb/s, 1485/1001 GB/s, 2970 Mb/s, 2970/1001 GB/s, manual or automatic
- Return Loss: >18dB @ 270 MHz, >15dB @ 1485 MHz, >10dB @ 2970 MHz
- Equalization: 0-400m @ 270 MHz, 0-200m @ 1485 MHz, 0-140m @ 2970 MHz (Belden 1694A type cable)
- Rise & Fall Time: 400-700ps @ 270 MHz, <270ps @ 1485 MHz, and <135ps @ 2970 MHz (20%-80% ampl.)
- Overshoot: <10 % amplitude
- Jitter: <0.2 Uppp
- Propagation Delay: ~4ns

#### ENCLOSURE

#### INDIVIDUAL

- Capacity: 1 board
- Voltage: 85-264VAC (47Hz-63Hz)
- Power Supply: Built-in, 5W
- Power Supply Redundancy: No
- Hot Swap Power Supply: No
- Dimensions: 42 x 150 x 108 (H x L x W) [mm]