

# Doteck

## Doteck MS1 Series

### 3G/HD/SD-SDI HD Digital Video Matrix Switcher(4x4/8x8/16x16)



#### Features

- (1) Compliant with the standards of SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE310M, SMPTE305M, DVB-ASI
- (2) The scale:16x16, 8x8, 4x4
- (3) Signal formats:3G/HD/SD-SDI, DVB-ASI
- (4) When signal input, with automatic cable equalization function
- (5) With clock recovery function
- (6) It can save the data when power off to ensure that the data will never be lost
- (7) Support front panel key operation and remote RS232 operation
- (8) Double switch power supply design, wide voltage range, power supply system for a long time reliable work

#### Introduction

Doteck MS1 series 3G/HD/SD-SDI HD digital video matrix is a high performance video signal switching device. It supports 4/8/16-channel 3G/HD/SD-SD HD digital video signal input and 4/8/16-channel 3G/HD/SD-SDI HD digital video signal output. The matrix is used for multiple high-definition digital signal input and output exchange, the output of any one

channel signal can freely choose any one channel signal source without interfering with other output, so that signal transmission attenuation is reduced to the minimum, to ensure the normal output of the signal.

### Technical Specifications

| <b>3G/HD/SD-SDI input</b>    |   |
|------------------------------|---|
| Signal standard              | SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M, DVB-ASI   |
| Channel                      | 4, 8, 16  |
| Signal level                 | >380mVp-p   |
| Automatic cable equalization | >100m@2970Mbps, (Belden 1694A cable)<br>>200m@1485Mbps, (Belden 1694A cable)<br>>350m@270Mbps, (Belden 1694A cable) |
| Input return loss            | >10dB@2970Mbps  |
| Impedance                    | 75 $\Omega$   |
| Connector                    | BNC   |
| <b>3G/HD/SD-SDI output</b>   |   |
| Channel                      | 4, 8, 16  |
| Signal level                 | 800mVp-p $\pm$ 10%  |
| 3G-SDI Rise/Fall time        | <135ps@2970Mbps   |
| HD-SDI Rise/Fall time        | <270ps@1485Mbps   |
| SDI Rise/Fall time           | <0.6ns@270Mbps  |
| 3G-SDI Jitter                | <0.3UI(101ps)@100KHz  |
| HD-SDI Jitter                | <0.2UI(134ps)@100KHz<br><1.0UI(673ps)@10Hz  |
| SDI Jitter                   | <0.2UI(740ps)@10Hz<br><0.2UI(740ps)@1KHz  |
| Impedance                    | 75 $\Omega$   |
| Connector                    | BNC   |
| <b>Control</b>               |   |
| Signal format                | RS232   |

|                       |                        |
|-----------------------|------------------------|
| Connector             | DB9, 2-RX, 3-TX, 5-GND |
| <b>Physical</b>       |                        |
| Dimension(H×W×D, mm)  | 44×433×343(mm)         |
| Dual power supply     | 130-260VAC, 50/60Hz    |
| Power consumption     | <10W                   |
| Operation temperature | 0-50°C                 |
| Relative humidity     | 0-95%, non-condensing  |
| LED status indicator  | Power, video activity  |

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