

# Doteck

## Doteck X1 Series

### 3G/HD/SDI Digital Video Up Down Converter



#### Features

- (1) 3G/HD/SDI/ASI signal auto recognition, need not select by hand
- (2) Compliant with the standards of SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
- (3) Auto adaption to the speed of SDI 143M, 177M, 270M, 360M, 540M, 1483.5M, 1485M, 2970Mbps
- (4) When signal input, with automatic cable equalization function, and when signal output, with driver function
- (5) With re-clocking function when signal input and output
- (6) adjustable 16:9, 4:3 display mode and screen magnification
- (7) Perfect LED indicators design, very convenient to monitor device work well or not
- (8) PCB boards made with environment friendly Pb-free
- (9) PCB boards made with multilayer design, to ensure stable and reliable signal conversion
- (10) All components, including connectors, are ordered from public-known manufacturers in the world, high stability and reliability ensurance
- (11) Enclosure box material is made of aluminum, elegant appearance, and light weight

## Introduction

Dotek X1 series is a powerful HD digital video up and down converter, that is not only up convert SD-SDI to HD-SDI, but also down convert HD-SDI to SD-SDI etc., even can convert 720p to 1080i or 1080i to 720p, it is very flexible and easy to get SD-SDI video, or 720p and 1080i HD video, or 1080i 3G-SDI video.

Dotek X1 series 3G/HD/SDI digital video up down converter can output 16:9 or 4:3 video ratio mode through keys on the front panel.

Dotek X1 series 3G/HD/SDI digital video up down converter has high supreme signal precision, stability, reliability, which is a ideal digital video splitter for TV station, CMMB,IPTV, mobile TV, mobile phone TV, telecommunication operators, government video conference system and other new media field.

## Technical Specifications

<b>3G/HD/SDI input</b>	
Standard	SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M
Channel	1
Signal level	>380mVp-p
Auto-cable equalization	>100m@2970Mbps, (Belden 1694A cable) >200m@1485Mbps, (Belden 1694A cable) >350m@270Mbps, (Belden 1694A cable)
Return loss	>10dB@2970MHz
Impedance	75 $\Omega$
Connector	BNC
<b>3G/HD/SDI output</b>	
Channel	1
Signal level	800mVp-p $\pm$ 10%
3G-SDI Rise/Fall time	<135ps@2970Mbps

HD-SDI Rise/Fall time	<270ps@1485Mbps
SDI Rise/Fall time	<600ps@270Mbps
3G-SDI Jitter	<0.3UI
HD-SDI Jitter	<0.2UI(134ps)@100KHz <1.0UI(673ps)@10Hz
SDI Jitter	<0.2UI(740ps)@10Hz <0.2UI(740ps)@1KHz
Impedance	75 $\Omega$
Connector	BNC
<b>Physical</b>	
Dimension(H×W×D, mm)	44×296×112(mm)
Power supply	130-260VAC, 50/60Hz
Operation temperature	0-50°C
Relative humidity	0-95%, non-condensing
LED indicator	Power, video activity

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