



# HDMI 2.0 to 12G-SDI Video Converter

500741



## Overview

The HDMI 2.0 to 12G-SDI (Model 500741) is a product developed for the high quality conversion of video signal from HDMI 2.0 to 12G-SDI. It performs high-quality, low-delay video transmission, features one HDMI 2.0 input and HDMI 2.0 local loop out, and up to 4 SDI outputs: one 12G-SDI output and three 6G-SDI outputs. It is powered via a 12VDC power supply with a locking connector for better reliable power connection. It supports firmware upgrade and control via a mini-USB port. SDI and HDMI signals are validated and displayed via front panel and rear panel LED indicators.

## Applications

- Video production & Broadcasting
- Studio-to-studio & Post production
- Outside broadcasting vehicle
- Mobile video & Live events
- HDMI Camcorders
- Medical imaging

## Key Features

- Wide support of HDMI 2.0 resolutions
- Support for local HDMI 2.0 loop out
- Supports SDI Single link, Dual link and Quad link modes
- Supports Quad link 2 Sample Interleave (2SI)
- Multi-Standard Support (12G, 6G, 3G, HD, and SD-SDI)
- Auto Source Format Detection
- Supports 8-channel, 24-bit Audio formats
- Easy plug and play installation
- Configure via USB port and the MuxLab SDI Manager software available for easy control and firmware upgrade
- Rugged design and integrated brackets for easy mounting

# Specifications

## Specifications

Environment	HDMI 2.0, 12G-SDI, and 6G-SDI
Bandwidth (HDMI)	594 MHz
Video Resolution	Up to 4K/60 fps (4:4:4)
System latency	None
USB Link	Mini-USB
Power Supply	12VDC, Locking connector
Working Temperature	0°C to 40°C
Storage Temperature	-20°C to 60°C. Bring to working temperature range before power-up.
Humidity	0 to 90% non condensing

## Connections

Converter	Inputs: 1 x HDMI IN [Type A, 19-pin female] Outputs: 1 x HDMI Loop Out [Type A, 19-pin female] 1 x 12G-SDI connector [High speed BNC female] 3 x 6G-SDI connector [High speed BNC female] Controls: 1 x USB HOST [Mini USB] 2 x Front LEDs indicate Locked HDMI Signals 4 x Rear LEDs indicate Locked SDI Signals Power: 7.5Vdc to 15Vdc with locking connector
DIP Switch Settings	Position 1: DOWN: USB Software Control; UP: DIP switch Hardware Control Position 2 & 3: 2-UP - 3-UP for SINGLE Link SDI mode 2-UP - 3-DOWN for DUAL Link SDI mode 2-DOWN - 3-UP for QUAD Link SDI mode 2-DOWN - 3-DOWN RESERVED Position 4 & 5: RESERVED

## Supported Formats

HDMI 2.0 Video Input	4096x2160p 60/50fps 4096x2160p 30/25/24fps 3840x2160p 60/50fps 3840x2160p 30/25/24fps 1920x1080p 60/50fps 1920x1080p 30/25/24fps 1920x1080i 60/50fps 1280x720p 60/50fps
HDMI 2.0 Video Output	Same as HDMI Input Format
SDI Video Output	Same as HDMI Input Format
HDMI Audio Input	8-Channel, 24-bit, up to 48 kHz
HDMI Audio Output	8-Channel, 24-bit, up to 192 kHz
SDI Audio Output	8-Channel, 24-bit, 48 kHz

## Mechanical

Housing	Black Metal Enclosure
Dimensions	153 X 80.7 X 26mm
Warranty	2 years
Order Information	500741 HDMI 2.0 to 12G-SDI Video Converter (UPC: 627699007419)

# Application Diagram



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