

1T-C2-511 is a high performance converter that transforms HD-SDI signals to DVI-I, both digital and analog. Designed for broadcast and professional use, the unit provides a highly reliable conversion with re-clocking and equalization of the input. It also handles 525i or 625i SD-SDI signals, converting them to 480p and 576p respectively. HD-SDI HDTV resolutions from 720p to 1080i 60Hz are accommodated. Embedded Stereo Audio may be extracted from the SD or HD-SDI input. Any one of the eight available stereo channels may be selected and output in analog and AES3-id digital formats. Control is via front panel buttons and an on-screen display. The unit is housed in a Desktop metal case with an optional Single/Dual Rackmount Kit.



Key Features of the 1T-C2-511

- Fully Digital Operation for SD-SDI and HD-SDI
- Equalized and Re-clocked SD/HD-SDI Loop-thru
- DVI HD output resolution matches SDI input
- 525i/625i SDI inputs line-doubled to 480p/576p
- Stereo Audio Extraction to Analog and Digital out
- RS-232 Interface

Specifications

SD/HD-SDI Video Input

SMPT259M @ 270Mb/s, 1x via BNC Connector
SMPT292M to 1485Mb/s
Video Processing 24 bit, 4:4:4

SD/HD-SDI Video Output

Active Looping Signal Equalized & Re-clocked

DVI-I Video Outputs

DVI Digital Output 1x via DVI-I Connector
Output Resolutions Per table below

Analog Video Output

RGBHV / YPbPr 1x via the DVI-I Connector

Audio Extraction

Input Format SD-SDI or HD-SDI
Number of Stereo Outputs 1x selected from any 8 SDI in
Sample Rate 48kHz (extended range TBA)

Stereo Audio Out

Analog Stereo 2x RCA Connectors
AES3-id Digital Stereo 1x via BNC Connector

Control Method

Display On screen display
Front Panel Buttons Menu, Up, Down

Mechanical

Size (HWD) 1.2"x7.9x3.5" (30x200x89mm)
Weight (Net) 1.3 lbs (0.58 kg)

Warranty

Limited Warranty 2 Years Parts and Labor

Environmental

Operating Temperature +40° to +113° F (4° to +45° C)
Operating Humidity 10% to 85%, Non-condensing

Power Requirement

External Power Supply 12VDC@500mA - Locking DC

Regulatory Approvals

Converter Unit FCC, CE, RoHS
Power Supply UL, CE, CSA, RoHS

Product Item Number

1T-C2-511 SD/HD-SDI to DVI-I Converter

Accessories Included

Cables BNC to BNC and RS-232
Adapters DVI to VGA
Power Adapter US, UK or Euro Type
Operations Manual

Optional Accessories

RM-230 Single/Dual Rackmount Kit

Notes

1. Resolutions not listed in the Table are not supported.
2. No scaling is provided so the output resolution and vertical rate will match the input signal exactly.
3. The output clock matches input clock with no jitter reduction, so input jitter is transferred to the output.

Input-Output Conversion Table

Input Signal	Digital Video Output Signal	Analog Video Output Signal
525-line SD-SDI @ 29.97Hz	525-line progressive DVI-D @ 29.97Hz	525-line progressive RGBHV @ 29.97Hz
625-line SD-SDI @ 25Hz	625-line progressive DVI-D @ 25Hz	625-line progressive RGBHV @ 25Hz
720p HD-SDI @ 23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 59.94Hz, 60Hz	720-line progressive DVI-D @ same frame rate as input	720-line progressive RGBHV @ same frame rate as input
1080p HD-SDI @ 23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz	1080-line progressive DVI-D @ same frame rate as input	1080-line progressive RGBHV @ same frame rate as input
1035i HD-SDI @ 29.97Hz, 30Hz	1035-line interlaced DVI-D @ same frame rate as input	1035-line interlaced RGBHV @ same frame rate as input
1080i HD-SDI @ 25Hz, 29.97Hz, 30Hz	1080-line interlaced DVI-D @ same frame rate as input	1080-line interlaced RGBHV @ same frame rate as input

Panel Drawings

