

**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

- Full Digital Operation for SD/HD-SDI Conversion
- 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

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| <b>SD/HD-SDI Video Input</b>               |                                                      |
| SMPTE259M @ 270Mb/s, SMPTE292M to 1485Mb/s | 1x via BNC Connector                                 |
| Video Processing                           | 24 bit, 4:4:4                                        |
| <b>SD/HD-SDI Video Output</b>              |                                                      |
| Active Looping Signal                      | Equalized & Re-clocked                               |
| <b>DVI-I Video Outputs</b>                 |                                                      |
| DVI Digital Output                         | 1x via DVI-I Connector                               |
| Output Resolutions                         | Per table below                                      |
| <b>Analog Video Output</b>                 |                                                      |
| RGBHV / YPbPr                              | 1x via the DVI-I Connector                           |
| <b>Audio Extraction</b>                    |                                                      |
| Input Format                               | SD-SDI or HD-SDI                                     |
| Number of Stereo Outputs                   | 1x selected from any of the 8x embedded in SDI input |
| Sample Rate                                | 48kHz                                                |
| <b>Stereo Audio Out</b>                    |                                                      |
| Analog Stereo                              | 2x RCA Connectors                                    |
| AES3-id Digital Stereo                     | 1x via BNC Connector                                 |
| <b>Control Method</b>                      |                                                      |
| Display                                    | On screen display                                    |
| Front Panel Buttons                        | Menu, Up, Down                                       |
| <b>Mechanical</b>                          |                                                      |
| Size (HWD)                                 | 30x200x90mm(1.2"x7.87"x3.5")                         |
| Weight (Net)                               | 0.54 kg (1.19 lbs)                                   |

### Warranty

Limited Warranty 2 Years Parts and Labor

### Environmental

Operating Temperature 0° to +50° C (+32° to +122° F)  
 Operating Humidity 10% to 85%, Non-condensing  
 Storage Temperature -10° to +70° C(+14° to +158° F)  
 Storage Humidity 10% to 85%, Non-condensing

### Power Requirement

External Power Supply 12VDC@1A - Locking DC

### Regulatory Approvals

Converter Unit FCC, CE, RoHS  
 Power Supply UL, CUL, CE, PSE, GS, RoHS

### Product Item Number

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

### Accessories Included

Video Adapters DVI to VGA  
 1x Power Adapter US, UK or Euro

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

### Panel Drawings

