

# DEC-2101

## Analog-to-Digital Video Converter

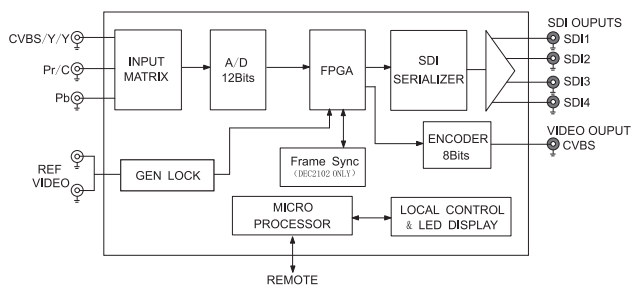
The DEC-2101 is an analog-to-digital video converter. It is used in i-MOD platform. The module converts CVBS, Y/C, YUV to SDI video signals. 12-bit processing and 4-time oversampling are used. It provides 4 SDI outputs and 1 CVBS output for monitoring.

The DEC-2101 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.

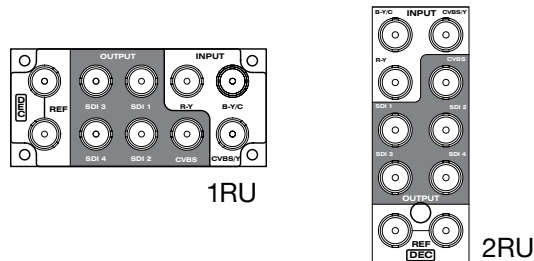
### FEATURES

- NTSC/PAL compliant
- 12-bit processing
- 4-time oversampling
- Accommodates CVBS, Y/C, Y/U/V inputs
- 4 SDI outputs
- 1 CVBS output for monitoring
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

### BLOCK DIAGRAM



### BACK MODULES



### SPECIFICATIONS

Specifications are subject to change without notice.

#### ANALOG VIDEO INPUT

Signal Format.....CVBS, Y/C, YUV  
 Standards.....NTSC, PAL  
 Quantization.....12 bits  
 Connector.....BNC (x3)  
 Impedance.....75  $\Omega$   
 S/N Ratio.....>40 dB @ 5.5 MHz

#### ANALOG VIDEO OUTPUT

Signal Format.....CVBS  
 Standards.....NTSC, PAL  
 Quantization.....8 bits  
 Connector.....BNC (x1)  
 Impedance.....75  $\Omega$   
 Amplitude.....1.0 Vp-p  $\pm$ 3%  
 Chr/Lum Delay Diff.....<5 ns  
 S/N Ratio.....>70 dB @ 6 MHz

#### DIGITAL VIDEO OUTPUT

Signal Format.....SMPTE 259M-C,270Mbps,  
 4:2:2,10bits  
 Connector.....BNC (x4)  
 Impedance.....75  $\Omega$   
 Return Loss.....>15 dB @ 270 MHz  
 Amplitude.....800 mVp-p  $\pm$ 10%  
 Jitter.....<0.2 UI  
 Rise/Fall Time.....400 ~ 1500 ps,  
 20% ~ 80% of amplitude  
 Overshoot.....<10% of amplitude

#### ELECTRICAL

Power.....5 W

#### ENVIRONMENTAL

Operating Temperature.....32° ~ 104° F (0° ~ 40° C)  
 Relative Humidity.....10% ~ 90%