

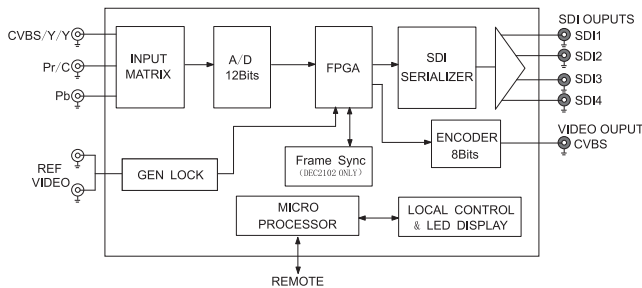
DEC-2102

Analog-to-Digital Video Converter with Frame Sync

The DEC-2102 is an analog-to-digital video converter with frame sync. 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. Genlock to reference input and continuous H/V phase adjustment are available.

The DEC-2102 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.

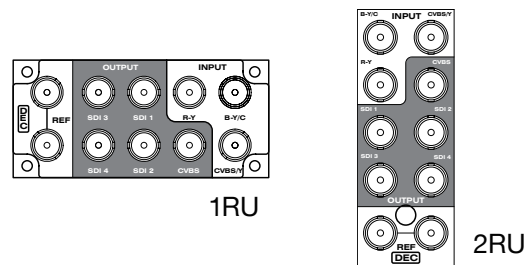
BLOCK DIAGRAM



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
- Reference video input, hi-z loop-thru supported
- Output frame sync and H/V phase adjustment available
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

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 Ω
 S/N Ratio.....>40 dB @ 5.5 MHz

REF VIDEO INPUT

Signal Format.....CVBS
 Standards.....NTSC, PAL
 Connector.....BNC (x2), hi-z loop-thru

ANALOG VIDEO OUTPUT

Signal Format.....CVBS
 Standards.....NTSC, PAL
 Quantization.....8 bits
 Connector.....BNC (x1)
 Impedance.....75 Ω
 Amplitude.....1.0 Vp-p ±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 Ω
 Return Loss.....>15 dB @ 270 MHz
 Amplitude.....800 mVp-p ±10%
 Jitter.....<0.2 UI
 Rise/Fall Time.....400~1500 ps, 20%~80% of amplitude
 Overshoot.....<10% of amplitude
 H Adjustment Precision.....±1/2H
 V Adjustment Precision.....±1/2F

ELECTRICAL

Power.....5 W

ENVIRONMENTAL

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