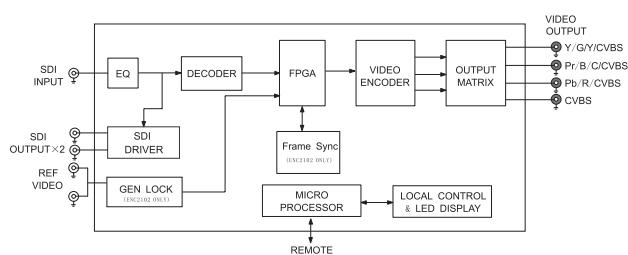


The ENC-2102 is a SDI-to-analog video converter with frame sync. It is used in i-MOD platform. The module converts SDI input signal to CVBS, Y/C, YUV and RGB outputs. Two additional SDI outputs are provided for loop-thru function. Equalizing is up to 656 ft (200 m). Genlock to reference input and continuous H/V/subcarrier phase adjustment are available.

The ENC-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



SPECIFICATIONS

Specifications are subject to change without notice.

DIGITAL VIDEO INPUT

Signal Format.....	.SMPTE 259M, 270 Mbps, 4:2:2, 10 bits, 525/625 component
Connector.....	.BNC (x1)
Impedance.....	.75 Ω
Return Loss.....	>15 dB @ 270 MHz
Cable EQ.....	<656 ft (200 m), 270 Mbps, Belden1694A cable or equivalent

REF VIDEO INPUT

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

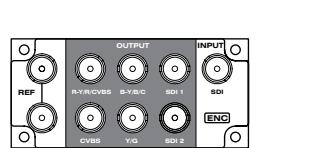
ANALOG VIDEO OUTPUT

Signal Format.....	.CVBS, Y/C, YUV, RGB
Standards.....	.NTSC, PAL
Quantization.....	.10 bits
Connector.....	.BNC (x4)
Impedance.....	.75 Ω
Return Loss.....	>40 dB @ 5.5 MHz
Amplitude.....	.1.0 Vp-p ±3%
Frequency Response.....	.±0.1 dB @ 6 MHz
Differential Gain.....	.≤0.5%
Differential Phase.....	.≤0.5°

FEATURES

- NTSC/PAL compliant
- 10-bit processing
- 2 additional SDI outputs, loop-thru supported
- Output signals supported include CVBS, Y/C, YUV and RGB
- 2 reference video inputs, hi-z loop-thru supported
- Output frame sync and H/V/subcarrier phase adjustment available
- Equalizing up to 656 ft (200 m)
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

BACK MODULES



1RU



2RU

Chr/Lum Delay Diff.....<5 ns

S/N Ratio.....>70 dB @ 6 MHz

DIGITAL VIDEO OUTPUT

Signal Format.....	.SMPTE 259M-C, 270 Mbps, 4:2:2, 10 bits
Connector.....	.BNC (x2)
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.....	.4.5 W
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ENVIRONMENTAL

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