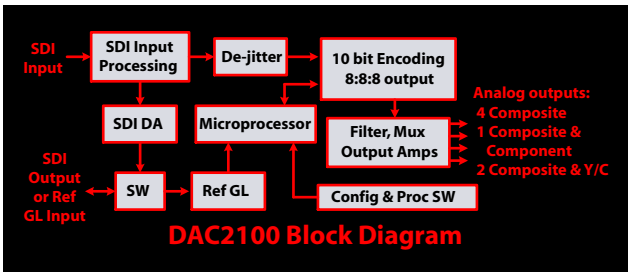
VIDEO CONVERTER, 4:2:2 SDI TO ANALOG, 10 BIT - DAC2100

Designed to fit any 2100 series frame, the DAC2100 is a full-featured, high quality, 10-bit 4:2:2 SMPTE 259M / ITU-R.BT656 serial digital to Analog Composite, Y/C and Component Y, Pb, Pr and RGB converter.

The 10-bit encoding engine over-samples outputs to 8:8:8 for improved signal performance. An internal VCXO with de-jitter loop filter (to 3Hz) removes digital jitter before the encoding process. An optional Genlock circuit color frames the DAC2100 for timed environments.

Full user digital processing controls, with user memory allows digital adjustment of Gain, DC Offset, Saturation and Hue (Hue on composite and Y/C). Factory presets enable a return to factory settings.



FEATURES

- High-quality 10-bit digital to analog conversion
- Four user configurable analog outputs: Composite, Component (Y, Pb, Pr & RGB) and Y/C
- Supports Component BetaCam™, MII™, and SMPTE/N10
- Encoding to 8:8:8 over-sampled outputs
- Full 10-bit Digital Video path
- Selectable color frame lock
- Internal SDI De-jitter filter to 3Hz
- Reclocked SDI input copies
- Internal color bar generator
- External user configuration switches
- Internal user Proc. configuration control
- 2 slot 2100 series module

SPECIFICATIONS

Digital Input	270 Mbit 4:2:2 SMPTE 259M / ITU R.BT656
Digital Outputs	One reclocked SDI
Return Loss	> 17 dB at 270 Mbit
Standards	NTSC-M, NTSC-N (Japan), PAL N, PAL-B/D/G/H/I and PAL-60 525 and 625 auto detect and configure
Analog Outputs	Four outputs, user configurable: all composite, composite & component, or composite with Y/C
Components	Y, Pb, Pr with BetaCam™, MII™, or SMPTE/N10 levels and RGB
Return Loss	> 35 dB
Output Jitter	Internal Digital De-jitter filter to 3Hz
D/A Process	8:8:8 over-sampled
Resolution	10-bit video data path
Freq. Resp.	5Mhz +/-0.15 dB, new line 0-6.75 Mhz +/-0.25 dB
Diff. Gain	< 1%
Diff. Phase	< 1 degree
S/N	< -70 dB
Proc. Control	Digital control of Gain, DC, Saturation & Hue with user values saved and Factory presets

Sigma Electronics, Inc. • 1027 Commercial Avenue • East Petersburg, PA, 17520 Phone: 1-717-569-2681
www.sigmaelectronics.com