

VIDEO CONVERTER, 4:2:2 SDI TO ANALOG, 10 BIT - DAC2100S

FEATURES

- High-quality 10-bit digital to analog conversion
- 4 user configurable analog outputs: Composite, Component (YPbPr) and Y/C
- Supports Component BetaCam™, MII™, and SMPTE/N10
- Encoding to 8:8:8 over-sampled outputs
- Full 10-bit digital video path
- Reference genlock option
- Internal SDI De-jitter filter to 3Hz
- Reclocked SDI input copy
- Internal color bar generator
- External user configuration switches
- Internal user Proc. configuration control
- 2 slot 2100 series module



Designed to fit any 2100 series frame, the DAC2100S 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 DAC2100S 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.

SPECIFICATIONS

Digital Input	270 Mbit 4:2:2 SMPTE 259M / ITU R.BT656	D/A Process	8:8:8 over-sampled
Digital Outputs	Two reclocked SDI (one with Genlock)	Resolution	10-bit video data path
Return Loss	> 17 dB at 270 Mbit	Freq. Resp.	5Mhz +/-0.15 dB, 0-6.75 Mhz +/-0.25 dB
Standards	NTSC-M, NTSC-N (Japan), PAL N, PAL-B/D/G/H/I and PAL-60	Diff. Gain	< 1%
Analog Outputs	525 or 625 auto detect and configure Four outputs, user configurable: all composite, composite & component, or composite with Y/C	Diff. Phase	< 1 degree
Component Mode	YPbPr with BetaCam™, MII™, or SMPTE/N10 levels and RGB	S/N	< -70 dB
Return Loss	> 35 dB	Proc. Control	Digital control of Gain, DC, Saturation & Hue with user values saved and Factory presets
Output Jitter	Internal Digital De-jitter filter to 3Hz	Electrical Length	< 2 uS
		Power	5V @ 1 amp, optional 12V input

Prices and specifications are subject to change without notice