PRODUCT SPECIFICATIONS SHEET

VIDEO CONVERTER, ANALOG TO 4:2:2 SDI, 10 BIT - ADC2100S

FEATURES

- High-quality analog to 10-bit digital conversion
- Composite, Component (YPbPr) and Y/C inputs
- Supports Component BetaCam™, MII™, and SMPTE/N10
- Differential inputs for power hum rejection
- Full 10-bit A to D and Digital Video path
- User selectable (on/off) 75 ohm termination
- 4-line adaptive comb filter for Composite mode
- Four 270 Mbit SDI 4:2:2 outputs with EDH
- Internal color bar generator
- External user configuration switches
- Internal user Proc. configuration control
- Manual or automatic input gain control
- 2 slot 2100 series module

The ADC2100S is a compact full featured high quality analog to 10-bit serial digital converter module with EDH. Designed to fit any Sigma 2100 series frame, it accepts Composite, Y/C and Component YPbPr analog input signals and outputs SMPTE 259M 4:2:2 270 Mbit SDI with EDH.

Differential inputs are included for ground loop rejection. A 4, 3, or 2 line comb or notch filter is user configurable for Y/C seperation in composite mode. All modes have 2X 8:4:4 input over sampling. An output jitter VCXO reduces 270Mbit jitter down to 2Hz.

Full user digital proc. control, with user memory allows digital adjustment of Gain, DC Offset, Saturation and Hue. Factory presets enable a return to factory settings.

SPECIFICATIONS

Analog Input	Composite, Y/C or component (YPbPr - BetaCam™, MII™, or SMPTE/N10)	Differential Gain	< 1.5%
		Differential Phase	< 1°
		S/N	> 52 dB
Termination	75 Ohm user configurable (on/off)	Digital Outputs	4 with EDH
Analog Gain	Auto or manual mode	Return Loss	> 17 dB @ 270 Mbit
Return Loss	> 35dB	Comb Filter	4, 3, or 2 line adaptive / Non-adaptive user selectable
Digital Output	Four SDI 4:2:2 SMPTE 259M w/ EDH		
Return Loss	> 17dB	Proc. Control	Digital control of gain, DC, saturation & hue with user values saved & factory presets
Output Jitter	< 0.15 UI measured w/ color bar input		
Input Type	Differential - all inputs	Electrical length	1.25H
A/D Process	8:4:4 2X over-sampled	Power	5V @ 0.65 amps, optional 12V input
Frequency Response	5.0MHz +/-0.25 dB		

Prices and specifications are subject to change without notice

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