

5590

A/D Analog Composite, Y/C, Component to 10-bit 4:2:2 SDI with EDH

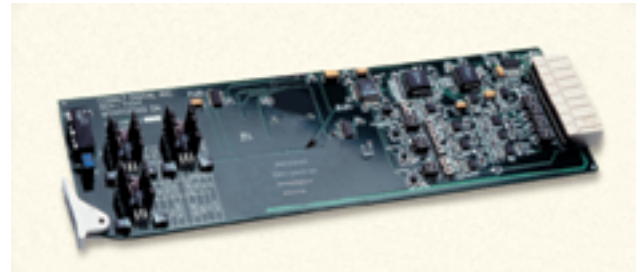
The 5590 is an Industry Standard Digital Frame compliant full featured high quality analog to 10-bit serial digital converter with EDH. The 5590 accepts Composite, Y/C and Component YPbPr analog input signals and outputs SMPTE 259M 4:2:2 270 Mbit SDI with EDH.

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

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.

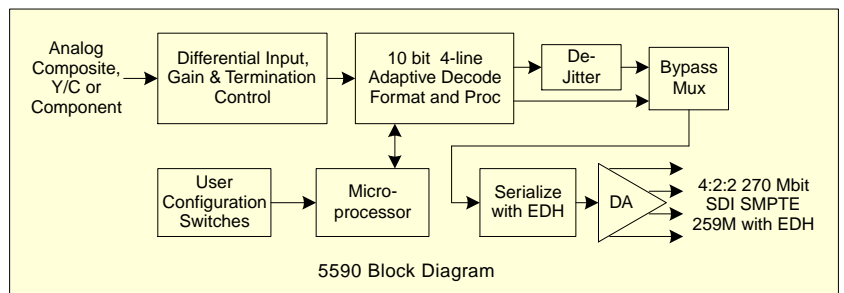
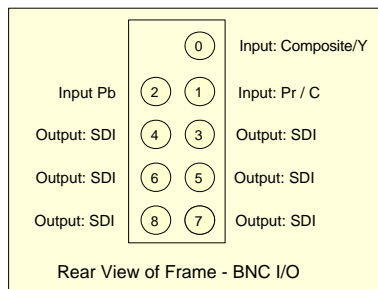
Features

- u High quality low cost analog to 10-bit digital conversion
- u Composite, Component (YPbPr) and Y/C inputs
- u Supports Component BetaCam™, MII™ and SMPTE/N10
- u Differential inputs for power hum rejection
- u Full 10-bit A to D and Digital Video path
- u User selectable (on/off) 75 ohm termination
- u 4 or 3-Line adaptive comb filter for Composite mode
- u Four 270 Mbit SDI 4:2:2 outputs with EDH
- u Internal color bar generator
- u User configuration switches
- u User Proc. configuration control
- u Manual or Automatic input gain control
- u Compatible with Industry Standard Digital Frames
- u Five year warranty



Specifications

Analog Input	Composite, Y/C or Component (YPbPr - BetaCam™, MII™ or SMPTE/N10)
Input Type	Differential - all inputs
Termination	75 ohm User configurable (On/Off)
Analog Gain	Auto or Manual mode
Return Loss	> 35dB
Digital Output	Four SDI 4:2:2 SMPTE 259M with EDH
Return Loss	> 17dB
Output Jitter	< 0.14 UI measured with Color Bar input
A/D Process	8:4:4 2X over-sampled
Resolution	10-bit A to D and 10-bit video data path
Freq. Resp.	5MHz +/- 0.25dB
Diff. Gain	< 1.5%
Diff. Phase	< 0.7%
S/N	> 52 dB
Comb Filter	4, 3 or 2-Line Adaptive / Non-Adaptive User selectable
Proc. Control	Digital control of Gain, DC, Saturation & Hue with User values saved and Factory presets
Elect. Length	1.25H
Power	6W Positive rail; 0.5W Negative rail
Size	5.5" x 3" x 1" (139 x 77 x 26 mm)



Specifications subject to change without notice. Copyright 2002 Cobalt Digital Inc. 3/02