

6081

A/D Analog Composite to 10-bit 4:2:2 SDI with EDH

The 6081 is a compact, full featured, high quality analog to 10-bit serial digital converter. The 6081 accepts NTSC, PAL and SECAM composite analog input signals and outputs SMPTE 259M-C 4:2:2 270-Mbit SDI with EDH.

The video input is buffered and has user adjustable input gain with user configurable 75 ohm (on/off) termination. A 4 or 3 line comb or notch filter is externally selectable for Y/C separation in composite mode. Video input is 2X (8:4:4) over-sampled. The 6081 incorporates a digital output de-jitter filter (VCXO) which reduces the 270-Mbit jitter down to 2Hz.

Additional user controls, AGC, Blanking, Color Bar test pattern, De-jitter filter and V-Bit location(SMPTE vs. ITU).

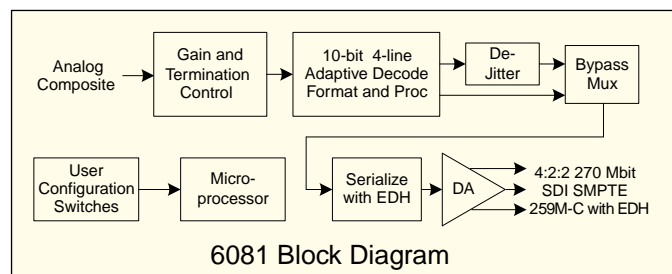
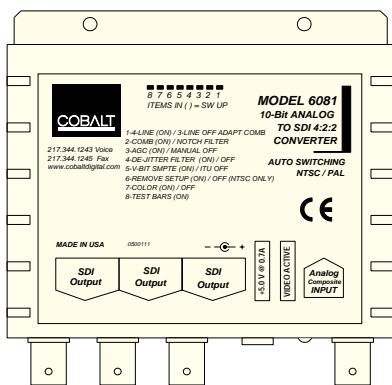
Features

- ◆ High quality low cost analog to 10-bit digital conversion
- ◆ Composite NTSC, PAL or SECAM input
- ◆ Full 10-bit A to D and Digital Video path
- ◆ User selectable (on/off) 75 ohm input termination
- ◆ 4 or 3-Line adaptive comb filter for Composite mode
- ◆ Three 270-Mbit SDI 4:2:2 outputs with EDH
- ◆ Internal color bar generator
- ◆ External user configuration switches
- ◆ Fixed or Automatic input gain control
- ◆ Compact rugged steel chassis
- ◆ Five year warranty



Specifications

Analog Input Standards	Composite 525 / 625 NTSC (M, Japan, 4.43), PAL (B, D, G, H, I, M, N, Nc) and SECAM (B, D, G, K, K1, L)
Termination	75 ohm User configurable (On/Off)
Analog Gain	Auto or Fixed
Return Loss	> 35 dB
Digital Output	Three SDI 4:2:2 SMPTE 259M-C with EDH
Return Loss	> 17 dB
Output Jitter	< 0.15 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.	0-5 MHz +/- 0.25 dB
K-2T	< 1 %
Diff. Gain	< 1.5 %
Diff. Phase	< 1 degree
S/N	> 52 dB
Comb Filter	4 or 3 Line Adaptive - User selectable
Electrical Length	1.25H
Power	5 VDC @ 0.7 A
Size	3.7" x 2.75" x 0.75" (94x70x19mm)



Specifications subject to change without notice. Copyright 2003 Cobalt Digital Inc. 3/03