

6040 Serial Digital 4:2:2 to Analog Composite with Y/C or Analog Component Encoder

The Cobalt Digital 6040 is a high quality full 10-bit digital encoder for converting 525/625 4:2:2 component serial digital (SMPTE 259M-C compliant) to analog NTSC/PAL composite with Y/C or analog component video. The user can select component RGB, YPbPr in BetaCam™, MII™, or SMPTE/N10 levels.

The 6040 is rich with features such as automatic NTSC/PAL detect and configuration, 7.5 IRE pedestal control, color or monochrome select, VBI Blanking (on/off) and color bar generator.

It is simple to use and is designed to default to auto-detect and display color NTSC/PAL analog composite video, once a 4:2:2 serial digital video source is supplied. An externally accessible dip switch adds flexibility for non-standard configurations.

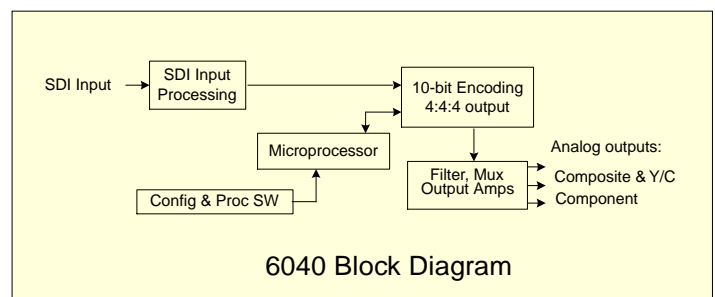
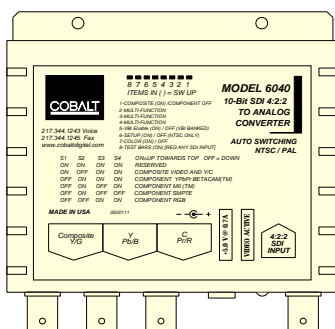
Features

- u Broadcast Quality 10-bit digital to analog converter
- u User selectable analog output formats composite, Y/C, YPbPr or RGB
- u BetaCam™, MII™, SMPTE/N10 output levels
- u Auto NTSC / PAL detect and configuration
- u Data path 10-bit input; 10-bit encoder; 10-bit DACs
- u VBI Blanking ON/OFF
- u Internal Bar Generator (requires any SDI input)
- u Compact rugged steel chassis with mounting tabs
- u External configuration switches
- u External LED with status of power and input signal
- u Locking Power connection
- u Five year warranty



Specifications

Input	One 75 Ohm BNC
Signal Type	270-Mbit 4:2:2 SDI SMPTE 259M-C / ITU-R601
Standard	525 or 625 Auto Tracking
Equalization	Auto to 1000 (300 M) Belden 1694
Return Loss	> 16 dB at 270 Mbit
Output	Three 75 Ohm BNC
Output Type	Analog Composite & Y/C or Component YPbPr (BetaCam™, MII™, SMPTE/N10) or RGB NTSC / PAL auto-tracking input line standard
Standard	
Freq. Resp.	0-5.0 MHz +/- 0.25 dB
K-Factor 2T	< 1%
SCH Phase	< 0.9 degrees
Diff. Gain	< 0.8%
Diff. Phase	< 0.8 degree
SCH Phase	< 1 degree
S/N	> 72 dB
Y/C Delay	< 2 ns
Return Loss	> 35 dB
Electrical Length	< 22 us
Temp. Range	40-110 degrees F (5-43C) non-condensing
Power	5 VDC @ 0.7 amps
Size	3.7" x 2.75" x 0.75" (94x70x19mm)
Packaging	Rugged two piece steel chassis with Retma spaced mounting holes



Specifications subject to change without notice. Copyright 2002 Cobalt Digital Inc. 6/02