

# 6546

## D/A 10-bit SDI to Analog

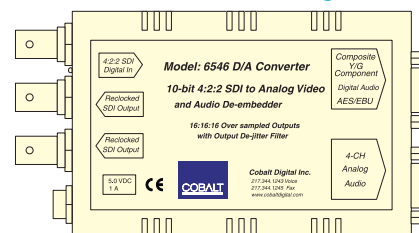


The 6546 is a full-featured 10-bit 270 M-bit SDI SMPTE 259M converter to analog composite, Y/C and component YPbPr and RGB with de-embedded audio in both AES/EBU digital and analog outputs. The 10-bit encoding engine up-converts 4:2:2 to 4:4:4 then 4x over samples to 16:16:16 for improved signal performance. An internal VCXO with de-jitter loop filter to 2Hz reduces digital jitter before the encoding process. Full user digital processing controls with user memory allows digital adjustment of gain, DC offset, saturation hue (hue on composite & Y/C), gamma and digital noise reduction.

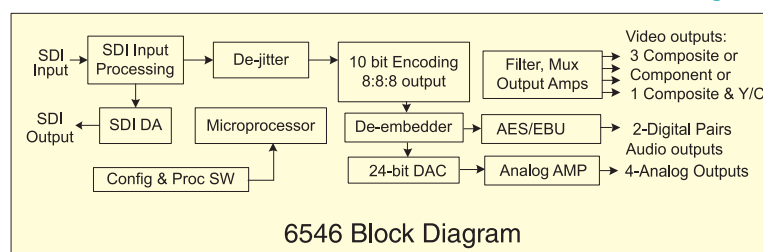
### Features

- 10-bit video conversion with 24-bit audio de-embedding
- Three user configurable analog outputs: composite, component (YPbPr & RGB) and Y/C outputs
- Supports component BetaCam™, MII™ and SMPTE/N10
- 10-bit path; 16:16:16 over-sampled outputs
- Internal user digital proc. configuration and control
- SDI de-jitter filter to 2Hz
- Internal color bar generator
- Two AES / EBU digital audio stereo pairs (75 ohms)
- Four analog 24-bit audio (balanced) outputs
- Adjustable analog level control
- External user configuration switches
- External LED with status of power and signal lock
- Compact rugged steel chassis
- Five year warranty

### 6546 Configuration



### 6546 Block Diagram



### Specifications

#### Input

270 Mbit SDI SMPTE 259M

#### Output

Two reclocked SDI

Three outputs user configurable: all composite, component or composite with Y/C

#### Component Mode

YPbPr or RGB

#### Output Jitter

Internal digital de-jitter filter to 2Hz

#### D/A Process

16:16:16 over-sampled 10-bit video path

#### Frequency Response

5 MHz +/- 0.15 dB, 0-6.75 MHz +/- 0.25 dB  
S/N > 70 dB

#### Digital Audio

2-AES/EBU stereo pairs (75 Ohm)

#### Analog Audio

4-analog audio (balanced) outputs

#### Audio Resolution

24-bits

#### Frequency Response

20-20KHz +/- 0.5 dB

#### Power

5 VDC @ 5 watts

#### Requires Power Supply

PS11 or PS12

#### Size

5.5" x 3" x 1" (139x77x26mm)