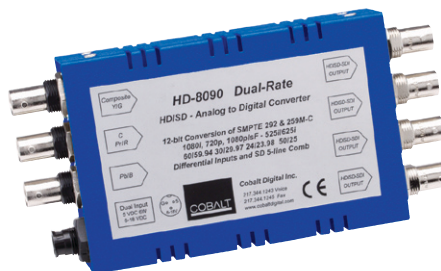


8090

HD/SD 12-bit Analog to Digital Converter

with Universal Inputs



The 8090 is a HD/SD universal input 12-bit analog-to-10-bit SDI converter. The 8090 accepts HD component and SD component, composite and Y/C. Differential analog inputs are used for common mode noise rejection. A 5-line adaptive comb or notch filter is used for Y/C separation in composite SD mode. SD inputs are oversampled to 54 MHz and the output circuitry includes a VCXO filter to reduce jitter. The unit offers full user proc control with user memory that provides adjustment of white level, black level, color gain, and color phase.

FEATURES

Dual rate universal analog inputs with 12-bit A/D

Four HD/SD-SDI outputs

Composite, component (YPbPr and RGB) and Y/C inputs

Supports component BetaCam™, MII™ and SMPTE/N10

Differential inputs for power hum rejection

5-line adaptive comb filter for SD-composite mode

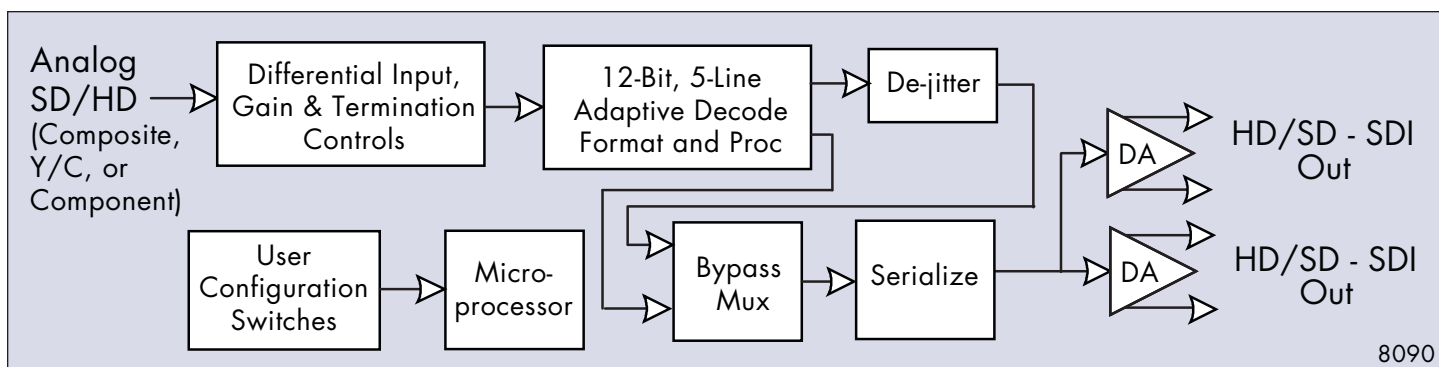
Internal color bar generator

External user configuration switches

Internal user proc configuration control

Manual or automatic input gain control

Five year warranty



8090

SPECIFICATIONS

Input

HD component YPbPr/RGB
SD component YPbPr/RGB, Y/C, composite

Analog Gain

Auto or manual mode

Output

4 HD/SD-SDI

Output Jitter

< 0.16 UI measured with color bar input

A/D Process

HD: 4:4:4 SD: 8:8:8

Frequency Response

HD: Y - 0-25 MHz +/- 0.3 dB
Pb/B, Pr/R 0-13.5 MHz +/- 0.3 dB
SD 5.2 MHz +/- 0.25 dB

SNR

> 52 dB

SD Comb Filter

5-line adaptive

Proc. Control

Digital control of gain, DC, saturation and hue with user values saved and factory presets

Power

5-18 VDC @ 4 watts
Requires Power Supply
PS11 or PS12

Size

5.5" x 3" x 1" (139 x 77 x 26 mm)

ORDERING INFORMATION

8090 A to D Decoder HD/SD Dual-Rate 12-bit with Video Processing Controls and 5-line Comb for SD Inputs

PS11 Universal Power Supply, UL/CSA, Input: 100-240 60/50 Hz, Output: 5V 1.5A

PS12 Universal Power Supply, IEC Connector, CE/UL/CSA, Input: 100-240 60/50 Hz, Output: 5V 2A (PS12 International Power Supply. Specify country of destination.)