

CSD203-YC

Analogue Y/C to SDI converter

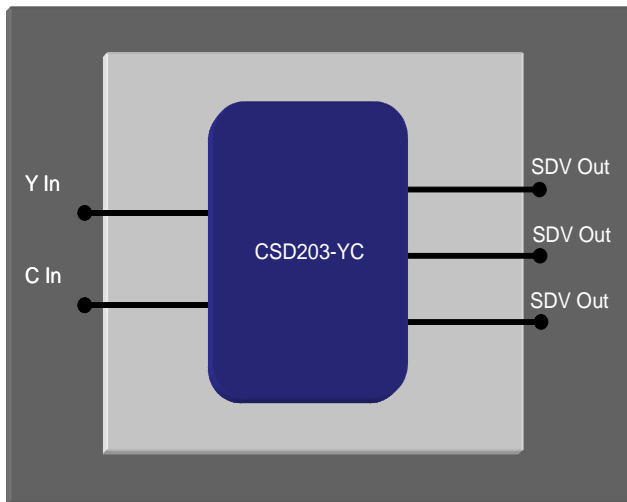
INSERTERS

SWITCHES

CONVERSION

KEYERS

MIXERS



High performance conversion

Adaptive comb filter decoding

Minimal conversion delay

Auto PAL/NTSC detection



This module converts analogue PAL or NTSC video to 270 Mb/s component serial digital video. The input to the board may be a composite or separate luminance and chroma (Y/C) signal. The input is sampled at 13.5 MHz to 10 bit resolution. When in composite mode the PAL/NTSC decoder utilises a fully digital comb decoder process. The board can automatically switch between PAL and NTSC. In the absence of an analogue input the board will free run generating a valid digital black. The CSD203-YC is a very compact eurocard size board allowing up to 6 modules in a 1U rack, making it ideal for multi-channel applications.

MicroVideo

Copley Hill Farm
Babraham
Cambridge
England, CB22 3GN
t: +44 (0) 1223 834119
f: +44 (0) 1223 834471
w: www.microvideo.co.uk

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Technical Information

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Inputs:	Analogue composite (PAL/NTSC) or Y/C. Input levels - 0.7V (100IRE) video, 0.3V (40IRE) sync. Input present LED.
Outputs:	3 x 270Mb/s serial digital to EBU Tech. 3267-E, (SMPTE 259M). (Option of four SDV outputs if required).
Control:	Switch between Y/C or composite operation. Automatic standard (PAL /NTSC) select can be disabled. Horizontal Position Adjustment by $\pm 1\mu\text{s}$ in 150nS steps.
Specification:	The composite signal is digitised to 10 bit resolution. A 3 line adaptive comb decoder is used to decode the composite signal.
Physical:	Eurocard size module for mounting in our 1U or 3U frames.
Power usage:	6W
Frames:	Up to 6 modules will fit in a Microvideo 1U frame and 15 in a 3U frame.
Ordering:	CSD203-YC Analogue Y/C to SDI (270Mb/s) converter FR1U-20 1U rack mounting frame for series 200 cards (dual PSU) FR3U-10 3U rack mounting frame for series 200 cards (single PSU) FR3U-20 3U rack mounting frame for series 200 cards (dual PSU) -CB Control Bus wiring for 3U frame

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