

CSD203

Composite video to SDI converter

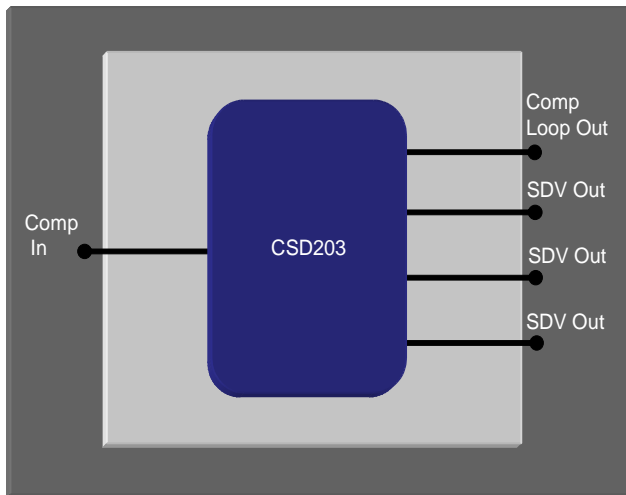
INSERTERS

SWITCHES

CONVERSION

KEYERS

MIXERS



High performance conversion

Adaptive comb filter decoding

Minimal conversion delay

Auto PAL/NTSC detection



The CSD203 module converts analogue PAL or NTSC composite video to 270 Mb/s component serial digital video. The PAL/NTSC decoder is fully digital providing excellent stability and quality. The input is sampled at 13.5 MHz and then filtered digitally to separate the luminance and chrominance information. A remote control option enables adjustment of the basic video parameters such as gain, black level, etc. The CSD203 is a very compact eurocard size board allowing up to 6 modules in a 1U rack, making it ideal for multi-channel applications.

MicroVideo

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CSD203

Technical Information

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- Inputs:** Analogue Composite PAL or NTSC.
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)
Loop through of analogue video provided on BNC.
- Control:** Loop through of analogue video or 75R internal terminator can be set by on board link.
DIP switches at the front of the board allow:
 Comb decode or simple band pass decode control.
 Automatic standard (PAL /NTSC) select can be disabled.
 Select Pedestal removal in 525 operation.
 VBI can be passed through or blanked off.
 Rotary switch allows adjustment of horizontal positioning
- Specification:** The composite signal is digitised to 10 bit resolution.
A 3 line adaptive comb decoder is used to decode the composite signal. This can be turned off to give simple band pass filtering.
Frequency Response +/-1dB to 5.5 MHz (with comb dec)
Differential Gain Error <1%
Differential Phase Error <1 deg
- 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 | Composite video 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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