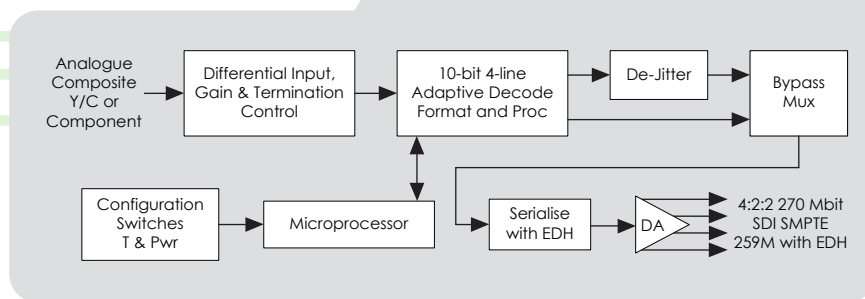


## Standard Definition A/D Analogue Composite, Y/C, Component to 10-bit SDI with EDH

The AC021 is a full featured openGear™ frame compliant analogue to 10-bit serial digital converter with EDH. The AC021 accepts composite, Y/C and component YPbPr analogue input signals and outputs SMPTE 259M-C 270 Mbit SDI with EDH. Differential inputs are included for ground loop rejection.

A 4, 3 or 2-line comb or notch filter is user configurable for Y/C separation in composite mode. All modes have 2X 8:4:4 input over sampling. An output jitter VCXO reduces 270 Mbit jitter down to 2Hz. Full user digital proc. control, with user memory allows digital adjustment of gain, DC offset, saturation and hue.

AC021 Analogue to SDI - Block Diagram



Features and specifications subject to change without notice

## Analogue to Digital Converters Features

- Composite, component YPbPr and Y/C inputs
- Supports component BetaCam™, MIITM and SMPTE/N10
- Remote monitoring
- Differential inputs for power hum rejection
- 10-bit A to D and digital video path
- User selectable (on/off) 75 ohm termination
- 4 or 3-line adaptive comb filter for composite mode
- Seven 270 Mbit SDI outputs with EDH
- Internal colour bar generator
- User configuration switches
- User proc. configuration control
- Manual or automatic input gain control
- Remote control/monitoring via DashBoard software or CP-900 remote control panel
- Five year warranty

## Specifications

### Input

Composite, Y/C or component (YPbPr)

### Output

Seven SDI SMPTE 259M-C with EDH

### Input Type

Differential – all inputs

### Analogue Gain

Auto or manual mode

### Output Jitter

< 0.14 UI measured with color bar input

### A/D Process

8:4:4 2X over sampled

### Frequency Response

5 MHz +/- 0.25 dB

### K-2T

< 1 %

### S/N

> 52 dB

### Comb Filter

4, 3 or 2-line adaptive / non-adaptive

User selectable

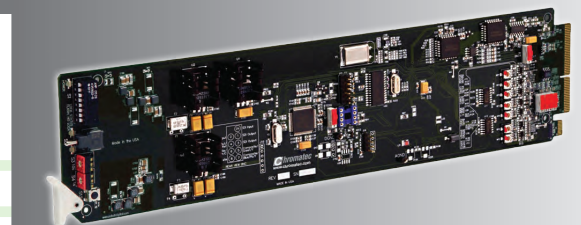
### Power

6 watts positive rail; 0.5 watts negative rail

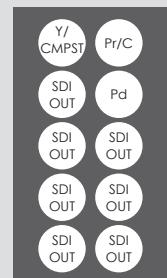
### Size

12.9" x 3" (330mm x 76mm)

For use in openGear™ frames



RM-AC021-A Rear Module



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