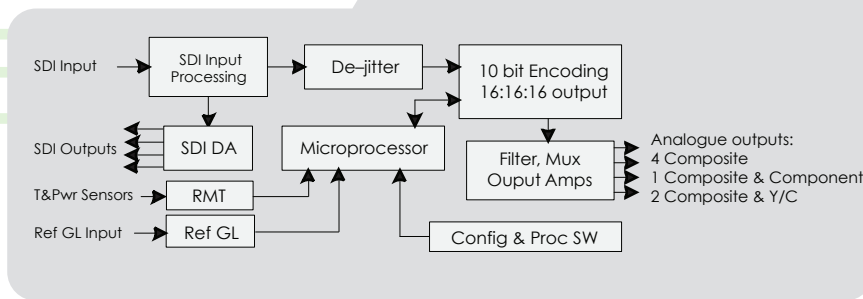


Standard Definition D/A 10-bit SDI to Analogue Composite, Y/C and Component

The DC011 is a full-featured, openGear™ frame compliant high-quality 10-bit SDI SMPTE 259M-C to analogue composite, Y/C and component YPbPr and RGB converter. The 10-bit encoding engine over samples 4:2:2 to 4:4:4 for internal processing and then 4x over samples the outputs to

16:16:16 for improved signal performance. An internal VCXO with de-jitter loop filter to 2Hz reduces digital jitter prior to encoding, improving burst stability on composite and Y/C signals. A reference circuit, colour frames the 9011 for timed environments with full user digital proc. control.

DC011 SDI to Analogue - Block Diagram



Features and specifications subject to change without notice

Digital to Analogue Converters Features

- High quality 10-bit digital to analogue conversion
- Four user configurable analogue outputs: composite, component, (YPbPr & RGB) and Y/C outputs
- Remote monitoring
- Supports component Beta Cam™, MIITM and SMPTE/N10
- Encoding to 16:16:16 over sampled outputs
- 10-bit digital video path
- Internal de-jitter filter to 2Hz
- Four relocked SDI outputs
- Internal colour bar generator
- User configuration switches on board edge
- User proc. configuration control of video levels
- DNR and gamma control
- Five year warranty

Specifications

Input

270-Mbit SMPTE 259M-C

Digital Output

Four relocked SDI

Analogue Output

Four outputs user configurable: all composite, composite & component or composite with Y/C YPbPr or RGB

Output Jitter

Internal digital de-jitter filter to 2Hz

D/A Process

4x or 2x over-sampled (16:16:16 or 8:8:8)

Frequency Response

5 MHz +/- 0.15 dB, 0-6.75 MHz +/- 0.25 dB

K-Factor

< 0.7%

S/N

> 70 dB

Proc. Control

Digital control of gain, DC, saturation & hue, filtering, gamma correction and DNR with user values saved and factory presets

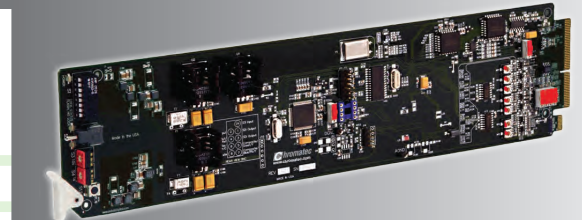
Power

5.5 watts positive rail; 0.5 watts negative rail

Size

12.9" x 3" (33mm x 7.5mm)

For use with openGear™ frames



RM-DC011-A Rear Con.

SDI In	1	2	Reference Input (FC)
Relocked SDI out	3	4	Relocked SDI out
Relocked SDI out	5	6	Relocked SDI out
Composite/Y/Green	7	8	Composite/Red/Pr/C
Composite/Blue/Pb/Y	9	10	Composite/C

Rear Connections - BNC I/O



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