



Analog Composite to SDI Converter

The module accepted the analog composite input (PAL/NTSC), and then converted to Serial digital component 270Mbit/sec according to BT656-3 standard.

After automatic gain/color control, separate luminance/chrominance signals by using adaptive comb filter, shaping the color component by transient improvement filter,

and then converted the analog component signals to digital by using 8x Fs Over-sampling and 10 bit resolution, frames into serial digital output 270 Mbit/sec to comply the BT656-3 standards.

BNC connectors for analog composite input with active loop-through and SDI outputs are placed on rear panel.

Features

- AGC & ACC for the Analog Input with Active Loop-through Output
- Adaptive Comb Filter for Y/C Separation
- Transient Improvement filter for Shaping Color Component
- 10 bit Resolution 8x Fs Over-sampling A/D Converter
- Four Serial Digital Outputs
- Installable in 3RU Digital Studio Subrack



Specifications

Analog Composite Input	
Standard	BT470, PAL or NTSC
Connector	BNC (x2), 75 Ω, active loop-through
Amplitude	1 Vp-p ±25% , 0.3V sync
Band width	5.5 MHz
Return loss	>40db @ 5.5 MHz
General	
Power	±5 VDC , 1.2 A
Operating humidity	10 to 85%
Operating temperature	0 to +50°C
Dimensions	234 * 125 * 40

A/D Performance	
AGC, ACC,	± 6 db
Y/C Separation	2D Adaptive comb filter
U, V, Shaping	Transient Improvement filter
Resolution	10 bit
Over-Sample	27 MHz
S/N	>63 db
SDI Output	
Standard	SMPTE 259M-C (270Mb/s)
Connector	BNC (x4), 75 Ohm
Jitter	>500 pSec
Amplitude	800 mV±10%
Offset	> ± 0.5V DC
Rise & fall time	>1.5 nSec

