



SDI to Analog Video Converter

The module provides to convert the serial digital video input SDI 270Mbit/sec to analog Composite PAL/NTSC together with Component analog RGB/YUV according to BT470 standards.

After equalization and re-clocking serial digital video input, by using 10 bit D/A resolution and 16xfs Over-sample converter, identifies 50Hz or 60Hz system to regain the analog component YUV/RGB together with analog Composite PAL/NTSC signal. In case of no digital input the module generates a black bar signal in output port.

Analog component format RGB or YUV selection is performed via on-board Switches. The VBI data existed in the digital Luminance will be inserting in the composite signal. The output levels are adjusted via front panel rotary encoder. BNC for digital input with active loop-through outputs and analog outputs are located on rear panel.

Features

- Serial Digital Video Input Equalization with Active loop-through Outputs
- 16xfs Over-sampling Processing, 10 bit Resolution D/A Converter
- 4 Analog Composite/ Selectable Component RGB/YUV Outputs
- Vertical Blanking Interval Data regaining in the composite outputs
- Adjustable Composite & Component Outputs level
- Black-bar/Color-bar Analog Outputs Generation
- Installable in 3RU Digital Studio Subrack

Specifications

| Serial Digital Input | |
|-------------------------|-------------------------------------|
| Standard | BT656-3 |
| SDI input | BNC(×1), 75 Ω |
| Equalization | Automatic 40 dB @ 270 MHz |
| Return loss | >18 dB @ 270 Mb/s |
| SDI outputs | BNC(×2), 75 Ω , Active loop-through |
| Composite Analog Output | |
| Standard | BT470, PAL or NTSC, |
| Connector | BNC (×4), 75 Ω |
| Amplitude | 1 Vp-p, negative sync |
| Component Analog Output | |
| Connector | BNC (×3), 75 Ω, selectable RGB/YUV |
| G/Y | 1Vp-p with sync or 0.7 Vp-p, 75 Ω |
| R, B/U, V | 0.7 Vp-p, 75 Ω |
| R,G,B/Y | Band width : 5.75 MHz |
| U,V | Band width : 2.75 MHz |



| Overall Performance | |
|-----------------------|---------------------------------|
| Resolution | 10 bit |
| Processing | 12 bit, 16xFS Over-sample |
| Teletext | Raw sample, |
| No digital input | Black-bar/color-bar, selectable |
| General | |
| Power | ±5 VDC , 600 mA |
| Operating humidity | 10 to 85% |
| Operating temperature | 0 to +35°C |
| Dimensions | 234 * 125 * 40 mm |

