

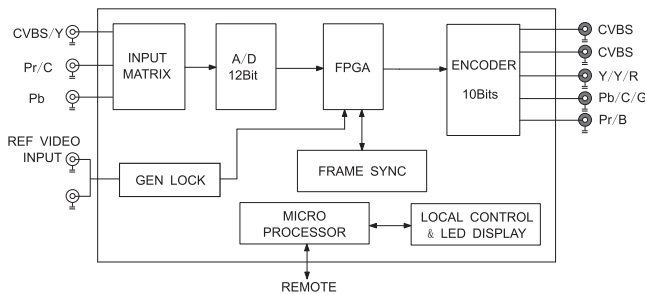
AVF-2102

Analog Video Frame Synchronizer

The AVF-2102 is an analog video frame synchronizer. It is used in i-MOD platform. The module accepts CVBS, Y/C and YUV inputs and outputs CVBS, Y/C, YUV and RGB signals genlocked to the external reference signal input. It uses 12-bit processing and 4-time oversampling. Continuous H/V/subcarrier phase adjustment is available. Additional 75% standard color bar signals are supported for auxiliary output.

The AVF-2102 can be controlled locally by means of an intuitive card-edge interface or remotely using i-MOD platform control software IM-MASTER.

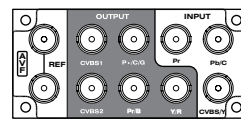
BLOCK DIAGRAM



FEATURES

- NTSC/PAL compliant
- 12-bit processing
- 4-time oversampling
- Supports CVBS, Y/C and YUV inputs
- Supports CVBS, Y/C, YUV and RGB outputs
- 75% standard bar signal available as auxiliary output
- Reference video input, hi-z loop-thru supported
- Output frame sync and H/V/subcarrier phase adjustment available
- Non-volatile memory
- Hot-swappable
- IM-MASTER control supported

BACK MODULES



1RU



2RU

SPECIFICATIONS

Specifications are subject to change without notice.

INPUT

Signal Format.....CVBS, Y/C, YUV
 Standards.....NTSC, PAL
 Connector.....BNC (x3)
 Quantization.....12 bits
 Impedance.....75 Ω
 Return Loss.....>40 dB @ 5.5 MHz

REF INPUT

Signal Format.....CVBS
 Standards.....NTSC, PAL
 Connector.....BNC (x2), hi-Z loop-thru

OUTPUT

Signal Format.....CVBS, Y/C, YUV, RGB
 Standards.....NTSC, PAL
 Quantization.....10 bits
 Connector.....BNC (x5)

Impedance.....75 Ω
 Return Loss.....>40 dB @ 5.5 MHz
 Amplitude.....1.0 Vp-p \pm 3%
 Frequency Response..... \pm 0.1 dB @ 6 MHz
 Differential Gain..... \leq 0.5%
 Differential Phase..... \leq 0.5 $^\circ$
 Chr/Lum Delay Diff.....<5 ns
 S/N Ratio.....>70 dB @ 6 MHz
 H Adjustment Precision..... \pm 1/2H
 V Adjustment Precision..... \pm 1/2F
 SC. Adjustment Precision.....1.4 $^\circ$

ELECTRICAL

Power.....5 W

ENVIRONMENTAL

Operating Temperature.....32 $^\circ$ ~ 104 $^\circ$ F (0 $^\circ$ ~ 40 $^\circ$ C)
 Relative Humidity.....10% ~ 90%