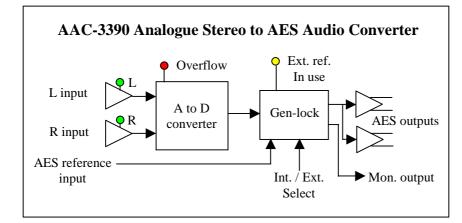
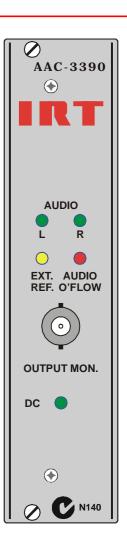


AES/EBU A to D Converter Type AAC-3390



Features:

- Balanced stereo inputs.
- High impedance or 600 Ohm input termination.
- AES external reference input.
- Balanced 110 Ω or unbalanced 75 Ω AES output rear assembly options.
- Front panel AES monitoring point.



General:

The IRT AAC-3390 is an analogue audio to AES/EBU digital audio signal converter, and converts standard stereo analogue audio signals to the AES3-1992 and SMPTE-276 AES digital audio standard.

The input signals are a stereo pair of balanced audio at the standard +4 dBu line up level.

The outputs are three serial digital audio signals; one unbalanced BNC connection on the front panel for monitoring and two from the rear panel assembly. The latter can be 110 Ohms balanced using the ZAC-3391 rear panel assembly or 75 Ohms unbalanced BNC connections using the ZAC-3390 rear panel assembly.

A further input is provided for a reference AES input signal to lock the signal from the AAC-3390 to a station reference.

The reference input can be either 110 Ohms terminating balanced line or 75 Ohms terminating unbalanced line. Both connections are provided on the rear panel assembly. Selection of the input type is by links on the AAC-3390 main circuit board.

Front panel LED indicators are provided for DC voltage, presence of input audio levels above -30 dBu, lock to external AES reference and overflow at 0 dBFS corresponding to the +24 dBu full scale input audio level.

The AAC-3390 is designed to fit the IRT range of Eurocard mounting frames, including the 12 or 10 slot 3 RU and 2 slot 1 RU rack mounting frames.

AAC-3390 Technical Specifications

(Preliminary)

Inputs:

Analogue inputs

Number Type Input coupling Input level setting Input connector

Reference input Type

Format Input level Input cable length

Outputs:

AES/EBU Rear panel type ZAC-3390 or Rear panel type ZAC-3391 Front panel monitoring Format

Performance

Sample rate

Output signal rise and fall times Frequency response THD + N Inter-channel crosstalk Linearity

Power Requirements

Power consumption

Connectors:

Unbalanced Balanced

Other:

Temperature range Mechanical

Finish: Front panel Rear assembly

Dimensions Supplied accessories Optional accessories 2 channels – one stereo pair. >30 k Ω balanced analogue audio. AC +24 dBu for 0 dBFS digital signal. Removable screw terminal block and Krone LSE IDC in parallel.

1 x 110 Ω balanced terminating. and 1 x 75 Ω unbalanced terminating. Selected by links on module PCB. AES3-1992 standard. 200 mVp-p minimum. >500 m Belden (8281) >200 m 110 Ω (AES digital high quality shielded pair).

2 x 75 Ω unbalanced >1 Vp-p.

 $2 \times 110 \Omega$ balanced >3 Vp-p. 1 x 75 Ω unbalanced >1 Vp-p. AES3-1992 standard.

48 kHz internal rate, or as set by external reference. <20 ns. +/-0.05 dB 20 Hz to 20 kHz. -95 dB, 20 Hz – 20 kHz @ -4 dBFS. -100 dB (20 Hz – 20 kHz). +/-0.5 dB at –90 dBFS.

28 Vac CT (14-0-14) or ±16 Vdc 3.5 VA.

BNC. Removable screw terminal blocks.

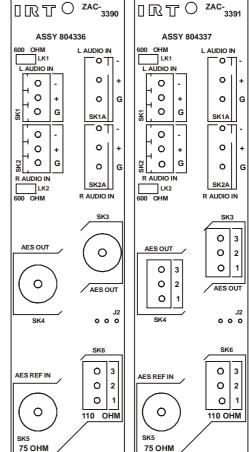
0 - 50° C ambient.
Suitable for mounting in IRT 19" rack chassis with input, output and power connections on the rear panel.
Grey background, silk-screened black lettering & red IRT logo.
Detachable silk-screened PCB with direct mount connectors to Eurocard and external signals.
6 HP x 3 U x 220 mm IRT Eurocard.
Rear connector assembly including matching connectors for 110 Ω connections.
TME-6 module extender card

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Due to our policy of continuing development, these specifications are subject to change without notice.

Manufacturer: La IRT Electronics Pty Ltd 26 Hotham Parade ARTARMON

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Detailed specifications available from: Local Agent: IRT can l

IRT can be found on the Internet at: http://www.irtelectronics.com