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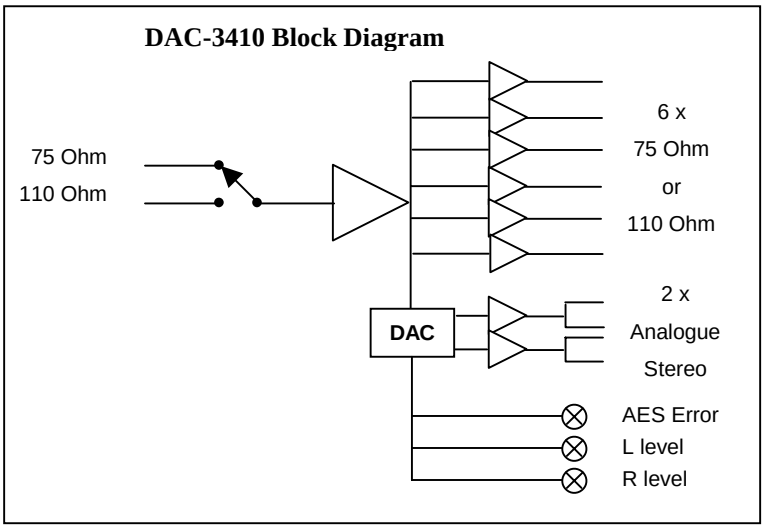
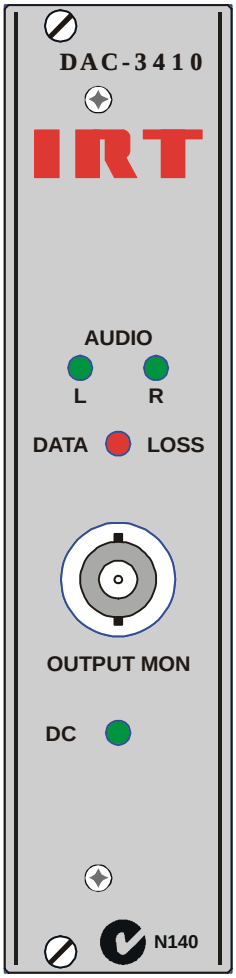
AES/EBU DA
With Analogue Monitoring
Type DAC-3410





Features:

- **6 AES and 2 analogue stereo outputs.**
- **24 bit digital to analogue processing.**
- **75 and 110 Ohm inputs.**
- **Choice of 75 or 110 Ohm AES outputs by changing rear connector assembly.**
- **Front panel digital monitoring output.**
- **Front panel audio level and AES error indications.**
- **All inputs and outputs transformer coupled.**
- **Digital circuit re-shapes output and restores level.**
- **No cable compensation adjustments required.**

General:

The DAC-3410 is designed to provide AES/EBU digital audio conversion to analogue stereo format. Two AES outputs are provided for through signal and monitoring purposes.

The DAC-3410 may be used with AES digital signals at 48 or 44.1 kHz.

The digital circuitry of the DAC-3410 restores the signal rise and fall times and output level without the need to manually adjust gain and compensation controls.

The digital converter monitors the AES signal for errors, and lights an alarm indication on the front panel.

LEDs are also provided to indicate the analogue output level. These are user adjustable, but factory set to a –40 dBFS threshold.

Individual rear assemblies are available for 75 Ohm or 110 Ohm use. No changes are required to the main DA to convert between the two output types.

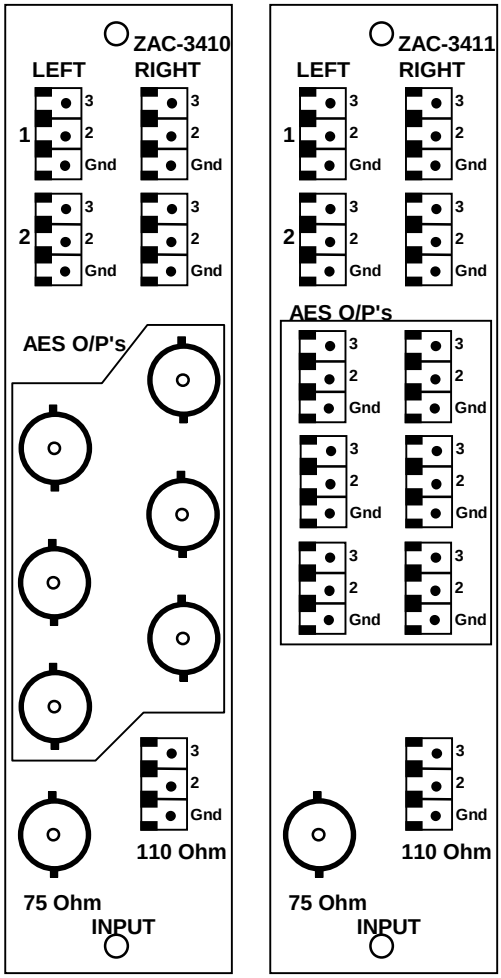
Additional rear assemblies of either type may be ordered separately. Both types include both 110 and 75 Ohm input connectors and balanced analogue stereo output connectors. The required input is selected by links on the main PCB.

The DAC-3410 is designed to fit IRT's standard Eurocard frames and may be used alongside any other of IRT's analogue or digital Eurocards.

DAC-3410 Technical Specifications

Inputs:

Number		2.
Type		1 x 110 Ω balanced or 1 x 75 Ω unbalanced selected by link on PCB.
Format		AES3-1992 standard.
Input level		200 mVp-p minimum.
Cable length		>500 m 75 Ω (Belden 8281). >200 m 110 Ω (AES digital high quality shielded pair).



Outputs:

AES/EBU:

Number		6.
Type	ZAA-3411	110 Ω balanced > 3 Vp-p.
		or
	ZAA-3410	75 Ω unbalanced > 1 Vp-p.
Monitoring		1 x 75 Ω unbalanced.
Format		AES3-1992 standard.

Analogue:

Number	2 stereo.
Type	40 Ω balanced.

Performance:

Frequency range	32, 44.1 or 48 kHz selected by link.
Rise & fall times	<20 ns.
Level for full code	+24 dBu (variable by internal factory preset).
Frequency response	±0.1 dB 50 Hz to 15 kHz. ±0.2 dB 15 kHz to 20 kHz.
THD+N	<.025%
Noise	-100 dBFS ('A' weighted with idle channel, digital input all zeros).
Linearity	<±0.5 dB at -90 dBFS.
De-emphasis	automatic from channel status.
Power requirements	28 Vac CT (14-0-14) or ± 16 Vdc.
Power consumption	<6 VA.

Connectors:

	Balanced	Phoenix 3 terminal plug-in blocks.
	Unbalanced	BNC.

Other:

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

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

Detailed specifications available from:

Manufacturer:

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