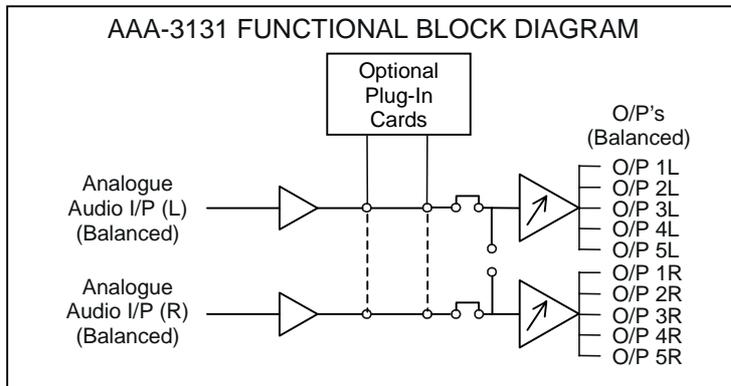


Stereo Audio Distribution Amplifier Type AAA-3131



Applications:

- Stereo signal duplication and distribution.
- Level matching and balancing.
- Stereo/mono switching.
- Inline tone generation.

Features:

- Selectable stereo or mono mode.
- Balanced inputs and outputs
- Front panel monitoring bantam jacks.
- LED audio activity indicators.
- Front panel gain adjustments.
- Optional remote control.
- Optional in line stereo tone generator.
- Selectable gain ranges: +6 dB, +12 dB & +18 dB.
- Maximum output level +24 dBu.
- Extended bandwidth option for ACS or timecode.

General:

The IRT AAA-3131 is a high performance audio distribution amplifier. Its features allow standardisation on one ADA type to perform many functions with consequent overall cost savings.

The AAA-3131 can be used for either mono or stereo signals. Inputs and outputs are balanced connector types, which can be wired for unbalanced operation, if needed, for duplicating applications.

Front panel access is provided for the gain adjustment of Left and Right channels from zero output to the maximum of the selected gain range.

LED's on the front panel indicate the presence of audio on each channel and balanced output bantam jacks are provided for front panel monitoring.

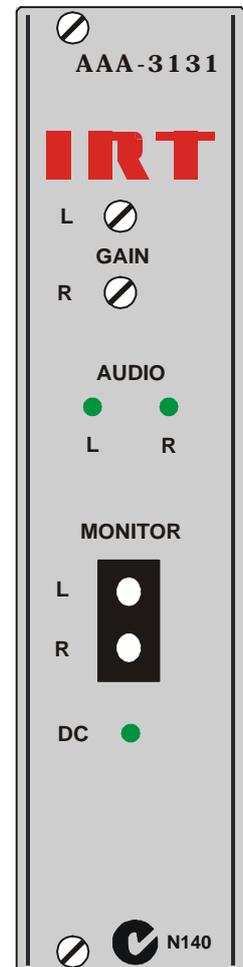
Optional plug in sub-boards may be fitted to suit special applications:

AAO-3130: FACTS stereo oscillator module. Left continuous & right interrupted with remote ADA/oscillator control switching.

CAA-3130: Remote select Stereo/L+R/L-mono/R-mono and L-phase reversal control module.

CAA-3132: Remote L&R gain, balance, stereo/mono and phase control module.

The AAA-3131 is fabricated in IRT's standard Eurocard format and may be housed in a variety of IRT Eurocard frames alongside other standard modules.



AAA-3131 Technical specifications

Inputs: Left/Mono and Right

Type	Transformerless, balanced, bridging.
Impedance	> 10 k Ω .
Maximum input level	+24 dBu (6 dB gain mode)
Input CMR	> 55 dB 20 Hz to 20 kHz

Outputs:

Main: (Located on rear assembly.)

Type	Transformerless, balanced.
Number	10 (10 mono or 5 L and 5 R).
Impedance	< 40 Ω .
Maximum output level	+24 dBu into 600 Ω .
Maximum output loading	10 x 600 Ω or up to 26 High Z.
DC on output	< \pm 20 mV.

Monitoring: (Located on front panel.)

Type	Transformerless, balanced.
Number	2 (L and R) Bantam Jack.
Impedance	< 70 Ω .
Maximum output level	+24 dBu into 600 Ω .
Minimum output load	1 k Ω .
DC on output	< \pm 20 mV.

Indicators:

Audio activity	2 front panel LED's set for +4 dBu @ 1 KHz. (user adjustable).
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Performance:

Gain	Internally linked to a maximum gain of +6, +12 or +18 dB.
Frequency response	+ 0/- 0.3 dB for 20 Hz to 20 kHz.
Harmonic distortion	< 0.005% 20 Hz to 20 KHz at +20 dBm.
Noise	-110 dB, Ref. +24 dBm 20 to 20 kHz.
Crosstalk; Left/right	-75 dB, 20 Hz to 20 kHz.
Amplifier/amplifier	-80 dB, 20 Hz to 20 kHz.

Power Requirements:

Power consumption	28 Vac CT (14-0-14) or \pm 16 Vdc. <5 VA.
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Connectors:

Phoenix plugable screw block.

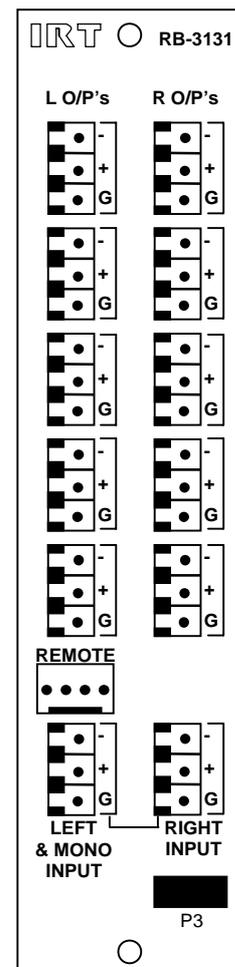
Other:

Temperature range	0 - 50 $^{\circ}$ 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, 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:

RB-3131 rear connector assembly with Phoenix plugable compression screw terminals.
Matching connectors for audio inputs & outputs supplied.

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



Detailed specifications available from:

Manufacturer:
IRT Electronics Pty Ltd
26 Hotham Parade
ARTARMON
N.S.W. 2064 AUSTRALIA
Phone: +61 2 9439 3744
Fax: +61 2 9439 7439
Email: sales@irtelectronics.com

Local Agent:

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