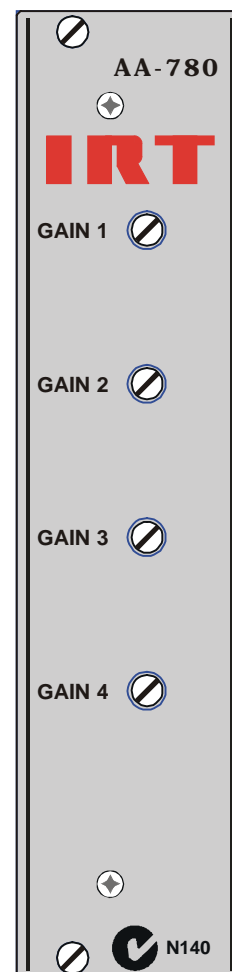


## Balanced / Unbalanced Line Audio Interface Amplifiers Type AA-780

### Features:

- User configurable
- Unbalanced to balanced  
or
- Balanced to unbalanced
- High common mode rejection
- Wide gain range
- High packaging density



### General:

The AA-780 Eurocard audio interface amplifier module contains four separate amplifiers designed to provide level matching and to interface balanced 600  $\Omega$  and unbalanced high impedance audio signals.

The AA-780 is a standard IRT Eurocard module and is compatible with our other Eurocard products.

As a replacement for the superseded AA-280, an AA-780 Eurocard may be mounted in the IRT 1 RU chassis.

Gain controls are accessible on the front panel.

Each of the four channels can be individually configured as either balanced to unbalanced or unbalanced to balanced.

#### Uses for the AA-780 include:

- Gain matching of multiple unbalanced signals to balanced audio signals at a central location.
- Matching balanced signals to unbalanced lines.
- Using hi-fi components such as CD players in a professional studio chain.
- Matching studio signals to unbalanced recorders.
- Matching transducers to instrumentation recorders.

# AA-780 Technical Specifications

## Inputs:

Type	Transformerless, choice of balanced or unbalanced.
Number	1 per amplifier.
Impedance	> 10k $\Omega$
Maximum input level	24 dBu
Input CMR	> 45 dB 20 Hz to 20 kHz

## Outputs:

Type	Transformerless, choice of balanced or unbalanced.
Number	1 per amplifier.
Impedance	Balanced < 40 $\Omega$ . Unbalanced < 60 $\Omega$ .
Maximum output level	24 dBu
DC on Output	< $\pm 20$ mV.

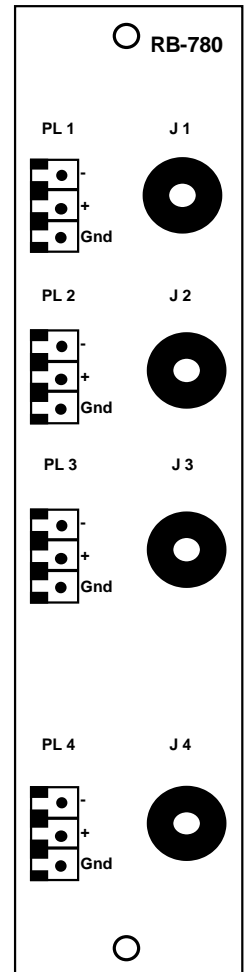
## Performance:

Overall gain	Set by front panel control. Adj. from no output to a max. of +10 dB
Frequency response	$\pm 0.5$ dB (20 Hz to 20 kHz)
Total harmonic distortion	< 0.01% (measured @ +10 dBm input) (20 Hz to 20 kHz)
Phase difference between channels:	< 0.1° (20 Hz to 15 kHz)
Noise	< -75 dBm unweighted
Crosstalk ratio	> 80 dB

<b>Connectors:</b>	Balanced	Plugable screw block connectors
	Unbalanced	RCA phono)

## General:

Input power	28 Vac CT (14-0-14) or $\pm 16$ Vdc
Power consumption	55 mA (no signal)
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 enamel, 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
Standard accessories	Matching balanced audio connectors
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:

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