

AES/EBU Distribution Amplifier

FEATURES

- Dual 1 x 4 or 1 x 8 outputs.
- Choice of 75 or 110 Ohm inputs and outputs by changing rear connector assembly.
- All inputs and outputs transformer coupled.
- Digital circuit re-shapes output and restores level.
- Selectable resampling to alternate input or local reference.
- No cable compensation adjustments required.
- DashBoard™ software monitoring and control.

GENERAL

The IRT-6400-DAA is designed to provide a solution to most AES/EBU digital audio signal distribution requirements.

The IRT-6400-DAA can be configured as either a single 1 x 8 DA or a dual independent 1 x 4 DA.

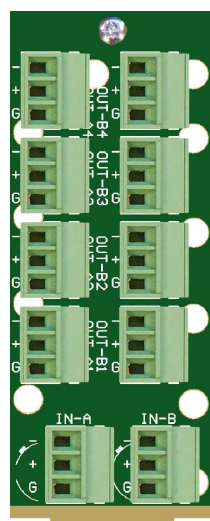
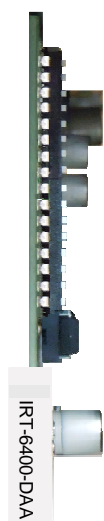
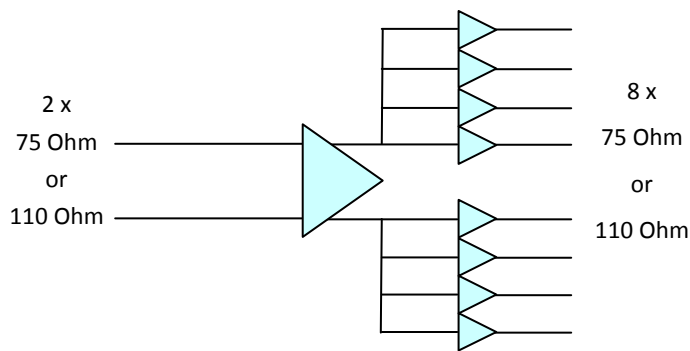
The IRT-6400-DAA will operate at AES sample rates from 16 to 96 kHz. When operating in the 1 x 8 mode, the alternate input can be used as a reference to which the incoming AES audio can be resampled. An internal reference can be applied to either channel to resample to 48 kHz.

A choice of rear assembly is available for either 110 Ohm or 75 Ohm use.

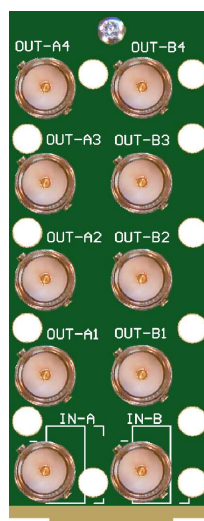
The IRT-6400-DAA is designed to fit the openGear® standard 2RU frames which allow a mixture of cards from various manufacturers to be mounted within the same frame.

The DashBoard™ control software is available as a free download.

BLOCK DIAGRAM IRT-6400-DAA SIGNAL PATH



IRT-6400-BAL
Rear Assembly
(Standard)



IRT-6400-UBAL
Rear Assembly
(Optional)

TECHNICAL SPECIFICATIONS

Inputs:

| | |
|---------------------|---|
| Number | 2. |
| Type | 110 Ω balanced (standard); or 75 Ω unbalanced. Selected by choice of rear assembly and links 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:

| | |
|---------------|--|
| Number | 8 (2 banks of 4 outputs). |
| Type | IRT-6400-BAL 110 Ω balanced > 3 Vp-p (standard); or IRT-6400-UBAL 75 Ω unbalanced > 1 Vp-p (optional). |
| Format | AES3-1992 standard. |

Performance:

| | |
|------------------------------|--|
| AES sample rate | 16 to 96 kHz continuous. |
| Resampled | 16 to 96 kHz reference input or 48 kHz internal reference. |
| Rise & fall times | < 20 ns. |

Connectors:

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

Power Requirements:

| | |
|--------------------------|-----------|
| Voltage | + 12 Vdc. |
| Power consumption | < 2.4 VA. |

Other:

| | |
|--|---|
| Temperature range | 0 - 50° C ambient. |
| Mechanical | Suitable for mounting in an openGear® 2RU rack chassis. |
| Dimensions (openGear® standard) | 33.6 mm x 2U x 325 mm; |

| | |
|-----------------------------|--|
| Supplied accessories | Choice of rear connector assembly (IRT-6400-BAL or IRT-6400-UBAL). |
|-----------------------------|--|

| | | |
|-----------------|--|---|
| Ordering | IRT-6400-DAA IRT-6400-BAL IRT-6400-UBAL (IRT-6400-BAL+UBAL) (IRT-6400-UBAL+BAL) | IRT-6400-DDA, programmed with DashBoard™ control + rear assembly. Rear Assembly - 110 Ω balanced inputs and outputs (standard). Rear Assembly - 75 Ω unbalanced inputs and outputs. Rear Assembly - 110 Ω balanced inputs and 75 Ω unbalanced outputs). Rear Assembly - 75 Ω unbalanced inputs and 110 Ω balanced outputs). |
|-----------------|--|---|