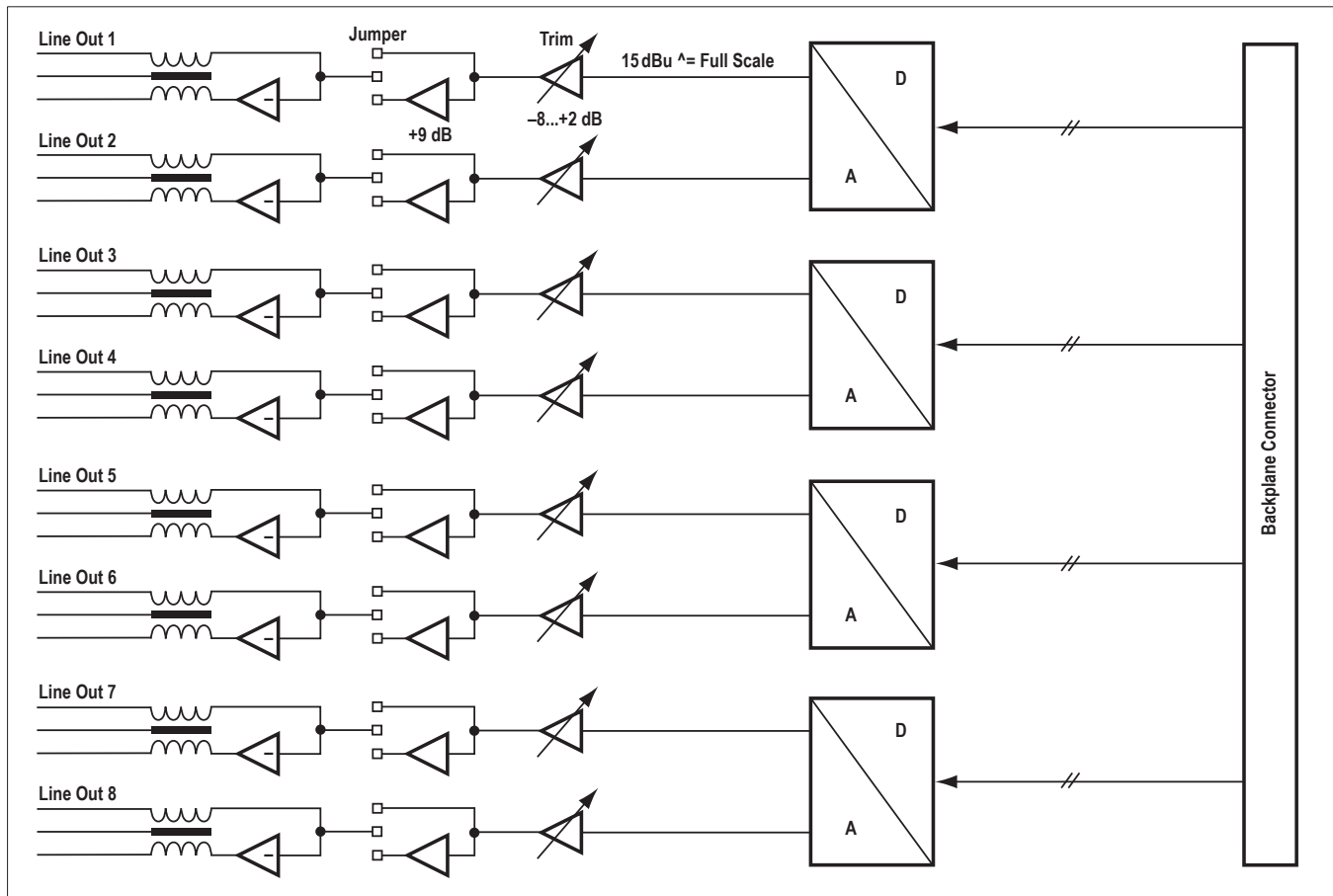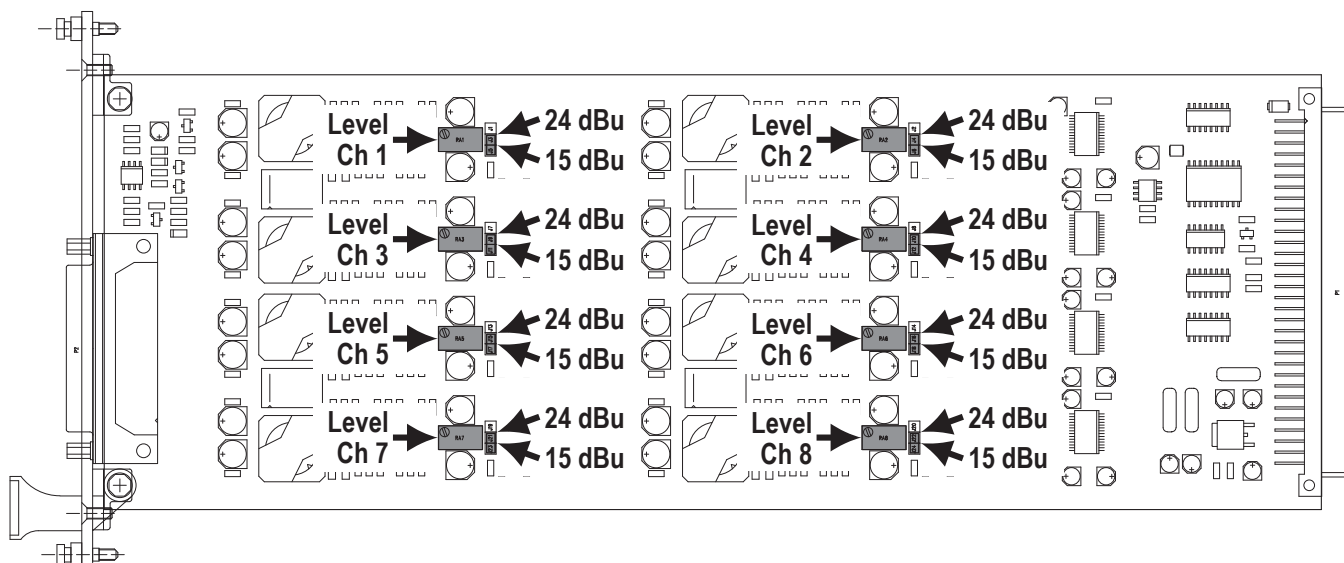## 6.2.5    Line Out Card (VISTA, OnAir, ROUTE 6000)       A949.0420

Eight-channel, 24 bit line output card with 24 bit D/A converters with 96 kHz, 88.2 kHz, 48 kHz, or 44.1 kHz operation. Electronically balanced outputs. 7…26 dBu max. output level. Outputs on standard 25-pin D-type connector (female).

| | |
|---|---|
| **Output level** (for 0 dB$_{FS}$) | 15/24 dBu (fixed, jumper-selectable), or 7-26 dBu (adjustable) |
| **Output impedance** | 40 Ω |
| **Min. load** (at +24 dBu) | 600 Ω |
| **Frequency response** (20 Hz-20 kHz) | −0.2 dB |
| **THD&N** (20 Hz-20 kHz, −1 dB$_{FS}$, jumper at 15 dBu fixed) | < −90 dB$_{FS}$ |
| (1 kHz, −30 dB$_{FS}$, jumper at 15 dBu fixed) | < −110 dB$_{FS}$ |
| **Crosstalk** (1 kHz) | < −110 dB |
| **Output delay** (local) | 28 samples (0.58 ms @ 48 kHz) |
| (remote) | 32 samples (0.67 ms @ 48 kHz) |
| **Current consumption** (7 V) | 0.23 A |
| (±15 V) | 0.25 A |
| **Operating temperature** | 0-40 °C |

| | | |
|---|---|---|
| **Jumpers** | **Level (Ch1-8)** | Two positions each: 15 dBu (factory default) or 24 dBu. |

| | | |
|---|---|---|
| **Alignment** | **RA1-8** | *The trimmer potentiometers are factory aligned for 0 dB gain of the 'Trim' stage in the block diagram on the left.*<br>Feed a digital audio signal with a level of $-10$ dB$_{FS}$ to the card. Set the jumpers to either 15 or 24 dBu and measure on an output. Use the corresponding LEVEL trimmer potentiometers to set the output level to +5 or +14 dBu, respectively. If a different output level is required, select the desired range with the jumper and use the LEVEL trimmer potentiometer to adjust to the desired level.<br>Repeat this alignment for all outputs. |

**Connector Pin Assignment**        **8× BALANCED LINE OUT** (25pin D-type, female, UNC 4-40 thread)



Solder/Crimp View
(or Socket View)
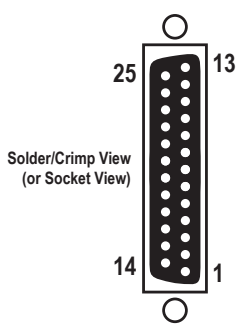
| Pin | Signal | Pin | Signal |
|---|---|---|---|
| 1 | CH 8 out + | 14 | CH 8 out – |
| 2 | CH 8 out GND | 15 | CH 7 out + |
| 3 | CH 7 out – | 16 | CH 7 out GND |
| 4 | CH 6 out + | 17 | CH 6 out – |
| 5 | CH 6 out GND | 18 | CH 5 out + |
| 6 | CH 5 out – | 19 | CH 5 out GND |
| 7 | CH 4 out + | 20 | CH 4 out – |
| 8 | CH 4 out GND | 21 | CH 3 out + |
| 9 | CH 3 out – | 22 | CH 3 out GND |
| 10 | CH 2 out + | 23 | CH 2 out – |
| 11 | CH 2 out GND | 24 | CH 1 out + |
| 12 | CH 1 out – | 25 | CH 1 out GND |
| 13 | n.c. | | |