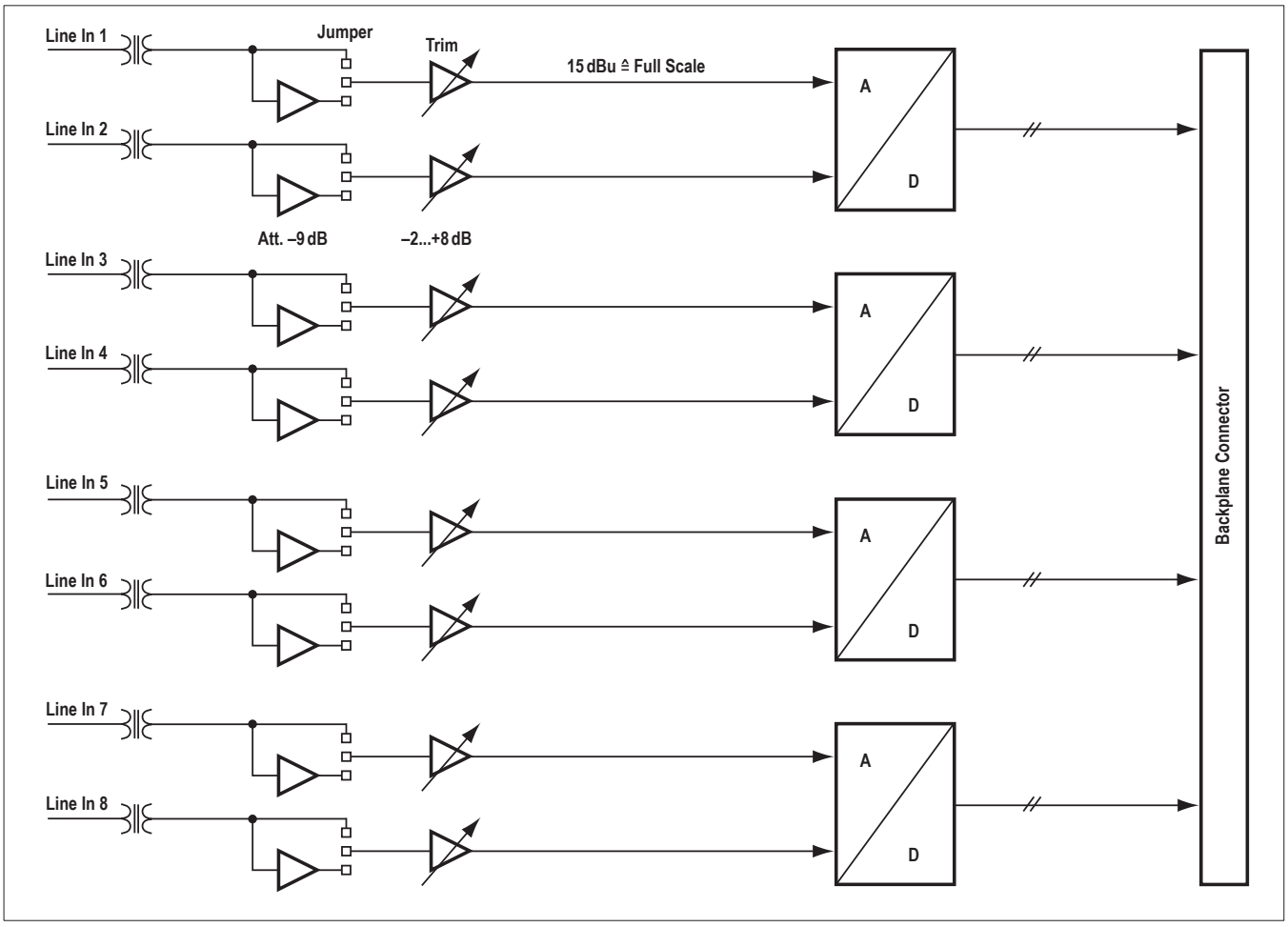
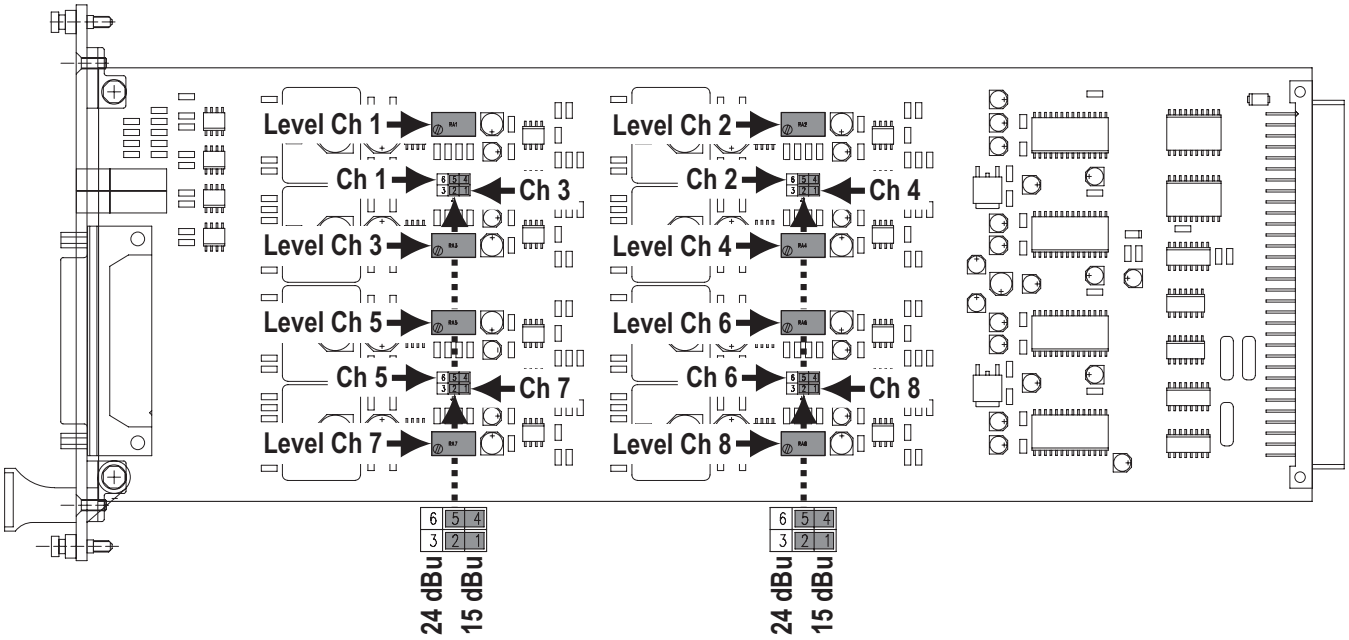
6.2.4 Line In Card (VISTA, OnAir, ROUTE 6000) A949.0421

Eight-channel line input card with 24 bit, 44.1/48/88.2/96 kHz A/D Converter, delta-sigma conversion. Transformer-balanced inputs. 96 kHz, 88.2 kHz, 48 kHz, or 44.1 kHz operation. 7-26 dBu input sensitivity. 'Signal present' LED indicator. Inputs on standard 25-pin D-type connector (female).

Input level (for 0 dB_{FS})	15/24 dBu (fixed, jumper-selectable), or 7-26 dBu (adjustable)
Input impedance	> 10 kΩ
Frequency response (20 Hz-20 kHz)	–0.2 dB
THD&N (35 Hz-20 kHz, –1 dB_{FS}, 15 dBu setting)	< –97 dB_{FS}
(1 kHz, –30 dB_{FS}, 15 dBu setting)	< –111 dB_{FS}
Crosstalk (1 kHz)	< –110 dB
Input delay (local)	38 samples (0.79 ms @ 48 kHz)
(remote)	45 samples (0.94 ms @ 48 kHz)
Current consumption (7 V)	0.42 A
(±15 V)	0.1 A
Operating temperature	0-40 °C



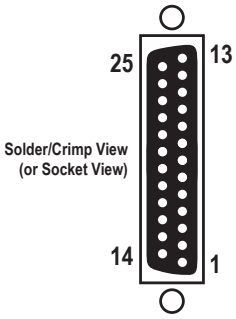


Jumpers **Level (Ch1-8)** Two positions each: 15 dBu (factory default) or 24 dBu.

LEDs **SIGNAL 1-8** For each of the eight channels a green LED indicates if input signal is present; its brightness is a rough indication of the signal level.

Alignment **RA1-8** *The trimmer potentiometers are factory aligned for 0 dB gain of the 'Trim' stage in the block diagram on the left.*
Set jumper to 15 dBu or 24 dBu. Feed an analog signal with a level of +6 dBu or +15 dBu, respectively, to one of the analog inputs. Measure the level on a digital output. Adjust the level with the corresponding LEVEL trimmer potentiometer to –9 dB_{FS}. If a different input sensitivity has to be adjusted, select the desired range with the jumper and use the LEVEL trimmer potentiometer to adjust to the desired level.
Repeat this alignment for all inputs.

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



Pin	Signal	Pin	Signal
1	CH 8 in +	14	CH 8 in –
2	CH 8 in GND	15	CH 7 in +
3	CH 7 in –	16	CH 7 in GND
4	CH 6 in +	17	CH 6 in –
5	CH 6 in GND	18	CH 5 in +
6	CH 5 in –	19	CH 5 in GND
7	CH 4 in +	20	CH 4 in –
8	CH 4 in GND	21	CH 3 in +
9	CH 3 in –	22	CH 3 in GND
10	CH 2 in +	23	CH 2 in –
11	CH 2 in GND	24	CH 1 in +
12	CH 1 in –	25	CH 1 in GND
13	n.c.		