

6.2.3 HD Mic/Line In Card (VISTA , OnAir , ROUTE 6000)

A949.0447



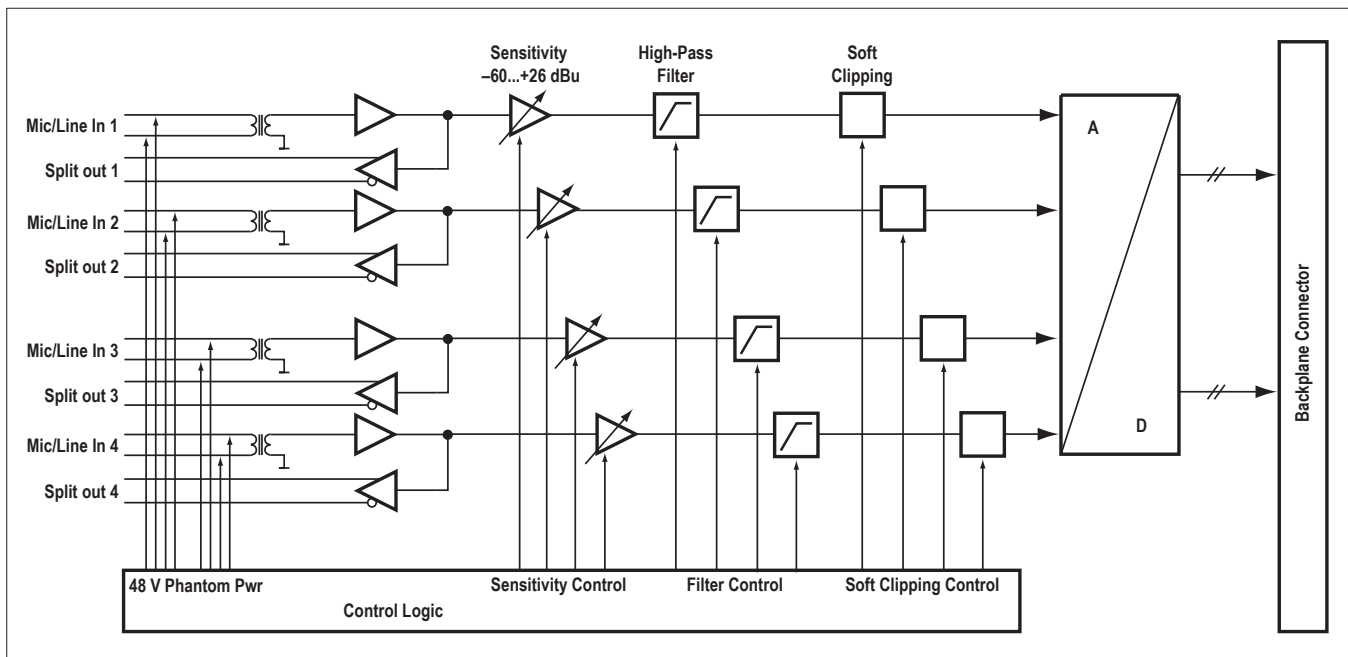
Four analog microphone/line inputs, transformer-balanced, with 24 bit, 44.1/48/88.2/96 kHz delta-sigma A/D converters. Four analog split outputs, electronically balanced. Green ‘signal present’ and yellow ‘phantom power’ indicators per channel. Mic/line sensitivity, gain setting in 1 dB steps, low-cut filter, soft clipping and 48 V phantom power on/off are controlled by the console software. Inputs and split outputs on a standard 25-pin D-type connector (female).

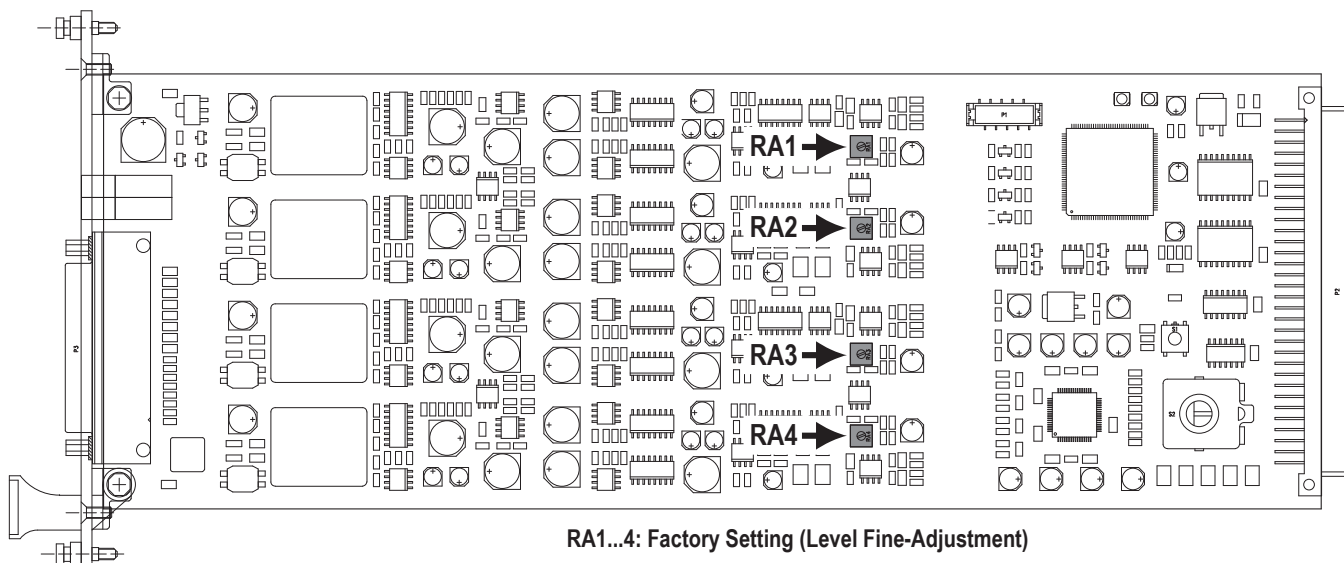
Notes As opposed to the Mic/Line Input card A949.0427, the gain of the split outputs is always unity, i.e., 0 dB.

This card does not support the Analog Insert Card A949.0428.

Gain setting: 15 dBu \cong 0 dB_{FS} unless otherwise noted.

Input sensitivity (for 0 dB _{FS})	-60...+26 dBu
Input impedance	2.2 k Ω
Split out gain	0 dB
Split out impedance	100 Ω
Equivalent input noise (R _i 200 Ω , max. gain)	-124 dBu
Crosstalk (1 kHz)	< -110 dB
Frequency response (30 Hz-20 kHz)	-0.2 dB
THD&N (1 kHz, input level -6 dBu)	< -88 dB
(40 Hz-20 kHz, input level -30 dBu)	< -100 dB
CMRR (30 Hz-20 kHz, all gain settings)	> 60 dB
Low-cut filter	75 Hz, 12 dB/oct.
Input delay (local)	38 samples (0.79 ms @ 48 kHz)
(remote)	45 samples (0.94 ms @ 48 kHz)
Current consumption (7 V)	0.2 A
(\pm 15 V)	0.25 A
Operating temperature	0-40 $^{\circ}$ C

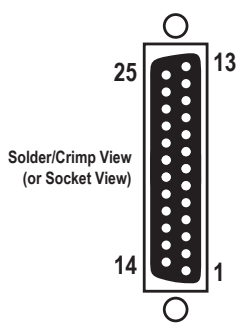




LEDs **PHANTOM 1-4** For each channel a yellow LED indicates that phantom power is on.
 SIGNAL 1-4 For each channel a green LED indicates whether input signal is present; its brightness is a rough indication of the signal level.

Alignment **RA1-4** *Please note that the level fine-adjust trimmer potentiometers are factory-set. They need to be adjusted only after having repaired the card.*
 Select 15 dBu input sensitivity. Feed an analog signal with a level of +6 dBu to one of the analog inputs. Measure the digital output level either on the MADI output or, after routing through the core, on one of the AES/EBU outputs. Adjust the level with the corresponding trimmer potentiometer to -9 dB_{FS} .

Connector Pin Assignment **4× BALANCED MIC IN/SPLIT OUT** (25pin D-type, fem., UNC 4-40 thread)



Pin	Signal	Pin	Signal
1	CH 4 split out +	14	CH 4 split out -
2	CH 4 split out GND	15	CH 3 split out +
3	CH 3 split out -	16	CH 3 split out GND
4	CH 2 split out +	17	CH 2 split out -
5	CH 2 split out GND	18	CH 1 split out +
6	CH 1 split out -	19	CH 1 split out 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.		