

Description

The plug-in card V 639 includes an 8-channel delta-sigma D/A converter with electronically balanced outputs for the output of analog audio signals from the VADIS system. The digital signals coming from the VADIS system are processed and outputted with a word length of up to 24 bit. The full scale output level is adjustable via jumpers to +12 dBu, +15 dBu, +16 dBu, +22 dBu or +24 dBu. Each output has a mute relay, which ensures that no noise can be heard when the system is switched on and off.

Specification

Output channels	8, electronically balanced
Connectors	2 x D-SUB 15-pin, male
Resolution	24 bit
Sampling frequency	32 kHz min., 48 kHz max.
Maximum input level at 0 dBFS, selectable with jumpers	+24 dBu typ. @ 1 kHz +22 dBu typ. @ 1 kHz +16 dBu typ. @ 1 kHz +15 dBu typ. @ 1 kHz +12 dBu typ. @ 1 kHz
Level deviation	< ±0.2 dB typ., < ±0.5 dB max @ 1 kHz
Output impedance	50 Ω
Unbalance of output voltage	< -54 dB typ. @ 1 kHz, R _L = 600 Ω
Minimum load	600 Ω
Frequency response	< +0/-0.2 dB typ., < -0.4 dB min., < +0.2 dB max. @ 20 Hz - 20 kHz, -1 dBFS, Ref. 1 kHz, R _L = 600 Ω
THD + N	< 0.002 % typ., < 0.005 % max. @ 0 dBFS = + 15 dBu, RMS, 20 Hz - 20 kHz, R _L = 600 Ω < 0.005 % max. @ -6 dBFS = + 9 dBu, RMS, 20 Hz - 20 kHz, R _L = 600 Ω
Dynamic range	> 105 dB typ., > 95 dB min. @ RMS, 20 Hz - 20 kHz, R _L = 600 Ω, max. output level = 15 dBu > 108 dB typ., > 98 dB min. @ RMS, A-weighted, R _L = 600 Ω, max. output level = 15 dBu
Cross-talk	< -110 dB typ., < -100 dB max. @ RMS, 20 Hz - 20 kHz, all channels
Power consumption	1.1 A typ. @ +5 V

A&E Specs

The specified Analog output card for the Atlas Sound Varizone system shall be the Model V639. Output channels shall total 8 in (2) 4 channel banks. Each output shall include a mute relay to eliminate transients when a system is powered on or off. Output shall be via (2) 15-pin male DSUB connectors. Digital to analog conversion shall be 32 kHz min., 48 kHz max. Analog output level at digital full scale shall be adjustable via internal jumpers for maximum levels of +12dBu, +15dBu, +16dBu or +24dBu @ 1kHz. Outputs may be configured balanced or unbalanced. Total harmonic distortion shall be < 0.002% typical @ 0 dBFS = +15 dBu, RMS, 20 Hz to 20 kHz, R_L = 600Ω. Dynamic range shall be >105dB typical @ RMS, 20Hz – 20 kHz, R_L = 600Ω with output level @ 15 dBu. Crosstalk shall be <-110dB @ RMS, 20 Hz to 20 kHz, all channels.

Technology by KLOTZ DIGITAL

Specifications subject to change without notice



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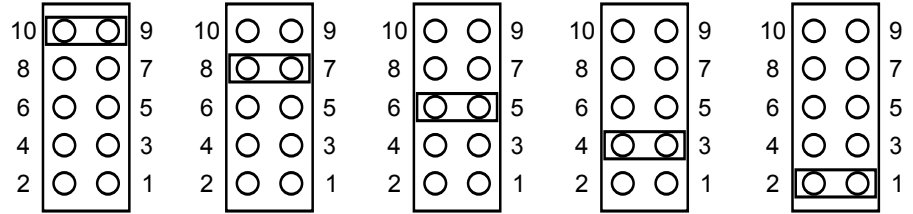
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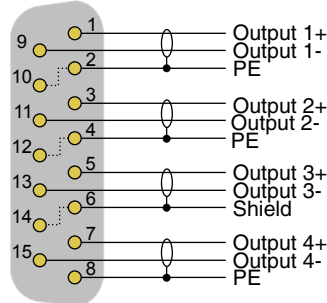
Adjustment

Output level at digital full scale with J1, J2, J5 - J8, J10 and J12

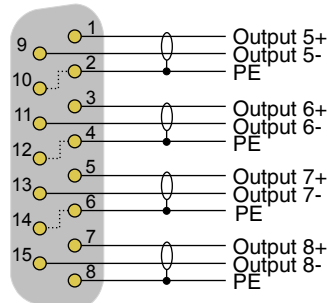


Pin configuration
D-SUB 15-pin, male,
D/A converter card

Output 1



Output 2



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