

Description

The plug-in card V 618 is a 8-channel 24 bit enhanced A/D converter card for the input of analog signals into the VADIS system V210C-HDD or V880 Frame. The module operates with sample frequencies of 44.1 kHz or 48 kHz. The input signals are fed into the VADIS system with a word length of up to 24 bit via symmetrical inputs. The analog input level at digital full scale is adjustable via jumpers to +12 dBu, +15 dBu, +16 dBu, +22 dBu or +24 dBu.

Specification

Input channels	8, electronically balanced
Connector	2 x D-SUB 15-pin, female
Resolution	24 bit
Sampling frequency	48 kHz @ fs = 48 kHz ±100 ppm 44.1 kHz @ fs = 44.1 kHz ±100 ppm
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, RS< 50 Ω
Input impedance	24 kΩ differential 18 kΩ common mode
Input voltage range	+40 V max., -40 V min. @ absolute maximum ratings
Input common mode voltage range	+22 V min. @ positive limit-22 V max. @ negative limit
Common mode rejection	> 85 dB typ., > 70 dB min, @ 20 Hz - 20 kHz
Frequency response	< +0/-0.1 dB typ., < ±0.2 dB max. @ 20 Hz - 20 kHz, -1 dBFS, Ref. 1 kHz
THD + N	< 0.001% typ., < 0.0015% max. @ input -20 dBFS, RMS, 20 Hz - 20 kHz, RS< 50 Ω < 0.006% max. @ input -1 dBFS, RMS, 20 Hz - 2 kHz, RS< 50 Ω < 0.01% max. @ input -1 dBFS, RMS, 2 kHz - 20 kHz, RS< 50 Ω
Dynamic range	> 102 dB typ., > 96 dB min. @ RMS, 20 Hz - 20 kHz,max. input level = +12 dBu, RS< 50 Ω > 105 dB typ., > 97 dB min. @ RMS, A-weighted,max. input level = +12 dBu, RS< 50 Ω > 102 dB typ., > 96 dB min., @ RMS, 20 Hz - 20 kHz,max. input level = +22 dBu, RS< 50 Ω > 105 dB typ., > 97 dB min. @ RMS, A-weighted,max. input level = +22 dBu, RS< 50 Ω
Cross-talk	< -100 dB typ., < -80 dB max. @ RMS, 20 Hz - 20 kHz, all channels
Power consumption	1.1 A typ. @ +5 V
Optional Accessories	V618INPUTCBL4-CH-10, input cable - 10' Length

A&E Specs

The specified Analog input card for the Atlas Sound Varizone system shall be the Model V618.

Input channels shall total 8 in (2) 4 channel banks.

Input shall be via (2) 15-pin female DSUB connectors.

Analog to digital conversion shall be 16 bit 44.1 kHz or 24 bit 48 kHz selected via the Atlas Sound VADIS software.

Analog input level at digital full scale shall be adjustable via internal jumpers for maximum levels of +12dBu, +15dBu, +16dBu, or +24dBu @ 1 kHz.

Inputs may be configured balanced or unbalanced. Balanced inputs shall provide >85dB common mode rejection typical.

Total harmonic distortion shall be < 0.001% typical @ input -20dbfs, RMS, 20Hz to 20 kHz, RS<50 Ω

Dynamic range shall be >105dB typical RMS, A-weighted with input level @ +22dBu, RS<50Ω

Technology by KLOTZ DIGITAL

Specifications subject to change without notice

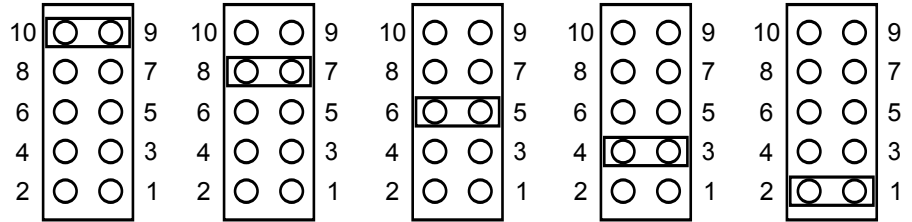


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Adjustment

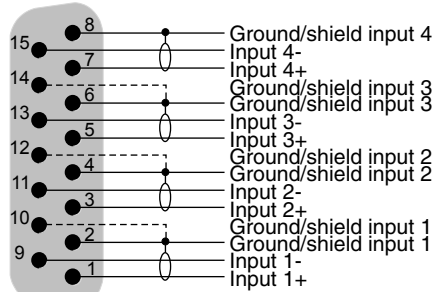
Input level at digital full scale with J5 - J12



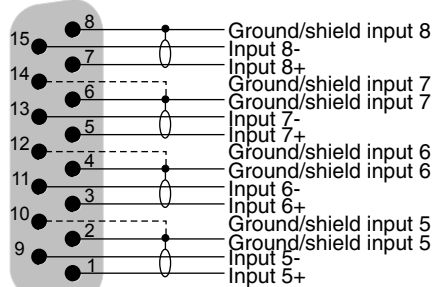
Pin configuration

D-SUB 15-pin, female,
A/D converter card

Input 1



Input 2



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