



**Description**

The DSP card V 960 is equipped with 4 audio DSPs, which can be loaded with various software plug-ins. Each software plug-in occupies 1 DSP. By means of the optional DSP delay plug-in (V 962 Chip) the functions of the card can be upgraded with 64 additional delay channels, each of them having a maximum delay time of 682 ms.

**Specification**

Resolution	24 bit
Number of DSPs	4
THD + N through 4 mix matrix fader -10 dB	-126 dB max. @ -1 dBFS, 20 Hz - 20 kHz, routed plug-ins 112 in 2, input fader +10 dB, output
Power consumption	1 A max. @ 4 mix units without delay 1.2 A max. @ 4 mix units with 64 channel delay
(optional) Dimension	Width: 129 mm Length: 308 mm Height: 20 mm

**Combination of DSPs**

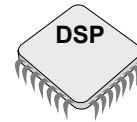
Up to 4 software plug-ins can be freely combined simultaneously on 1 V 960 DSP card, whereas up to 256 different input channels can be processed at the same time. The picture below shows an example with 168 input channels.



24-CH  
Mixing



8-CH  
Parametric EQ  
10-CH  
one octave EQ  
4-CH 1/3 octave EQ



8-CH  
Dynamics



128-CH  
Gain Control

**DSP software plug-in options:**

The following software plug-ins are available:

- Mixing (S MIX)
- Dynamics (S DYN)
- VU and PPM meter/tone generator (S LEM)
- Gain control (S GAIN)
- Parametric equalizer (S PEQ)

**Hardware option: V 962 DSP delay plug-in (RAM module)**



64-CH  
Delay

Technology by KLOTZ DIGITAL

Specifications subject to change without notice



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## **A&E Specs**

The specified DSP processor card shall be the Atlas Sound VARIZONE model V960.

The DSP card shall be used with VADIS frames to provide (4) software assigned DSP engines. Each engine (x4) may be configured to provide a 24x24 mixer channel block, 8x8 parametric EQ block, 10 x 10 one octave EQ block, 4x4 1/3 octave EQ block, 8x8 channel dynamics block or 128 x 128 gain control block. Optional model V962 ram chip may be added to the V960 card to provide 64x64 delay channels each with delay time ranging up to 682 ms.

The DSP card shall operate with 24 bit resolution with total harmonic distortion & noise of -126 db maximum at -1 dBFS over a frequency range of 20 Hz to 20 kHz when routed through 4 mix matrix plug ins (112 in, 2 out , input fader @ +10 dB, output fader @ -10dB).

The DSP card shall occupy (1) card slot in the VADIS frame.

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