

Noise Suppression CNS200

Technical Data of Software Package **CNS200**

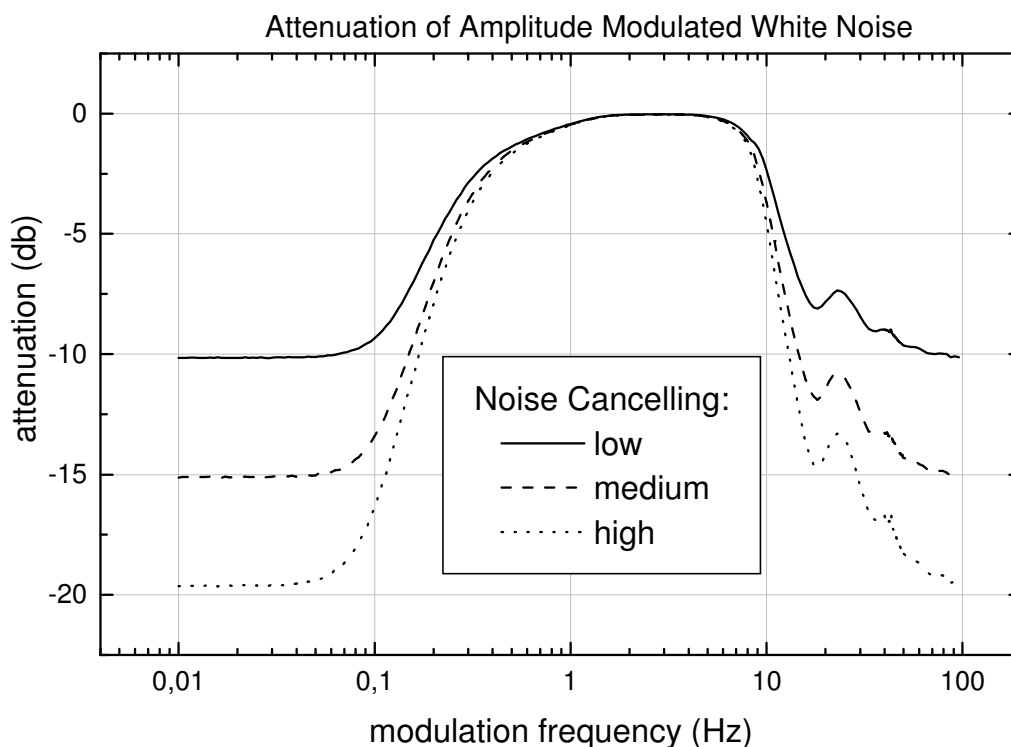
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CNS Noise Suppression is a patented technology for noise reduction of speech signals; known as one of the best algorithms of its kind. It is ideally suited for real time processing in any kind of communication system in noisy environments, such as hands-free telephone sets or industrial intercom systems.

The Noise Suppression Algorithm **CNS200** is capable of distinguishing between voice and noise components of an audio signal. One of the signal properties being monitored is the modulation frequency of each spectral component of the input signal: Analysis of human speech yields typical modulation frequencies in the range of 2 to 5 Hz. The idea of the noise cancelling algorithm is that signal components with modulation frequencies in said interval pass the system nearly without attenuation, while signal components with higher or lower modulation frequency are classified as noise. Such signal components are attenuated in dependency of a selectable parameter.





The figure above shows the modulation characteristic of the system measured with amplitude modulated white noise, shown for three different values of the Noise Suppression Strength.

Technical Data (Software):

Max. noise attenuation: 20 db
Min. SNR of input signal: 0 db
Sampling rate: 8 kHz ...11 kHz
Internal signal delay: 25 ms @ 11 kHz
Req. Calculation Power: 6 MIPS @ 11 kHz
Req. Data Memory: 8 kByte
Req. Program Memory: 3 kByte