Russia,
St. Petersburg
Speech Technology Center
Voice of the Future

Denoiser Clear Voice

TI eXpressDSP compliant algorithm

Features

Denoiser Clear Voice automatically removes noise and keeps the useful signal clear and undistorted. It effectively filters out the noise generated by air conditioners, street traffic, wind, the power supply hum, engine rumbling, channel interference, atmospheric noise and many other types of background noise. Denoiser Clear Voice dramatically increases speech quality and clarity into applications to which it has been added.

Applications

The features of Denoiser Clear Voice allows to use it for such applications as:

- Teleconferencing solutions and IP telephony, superior compression on VoIP
- Aircraft communication equipment - the use of Denoiser Clear Voice makes the speech of pilots and dispatchers more comprehensible which gives better safety.
- Voice logging systems and dictation devices
- ASR systems - Denoiser Clear Voice increases the performance of the most well known ASR engines.
- Sound processing software for Broadcasting and music restoration

Functional Overview

- Sampling Frequency 8000-44100 Hz
- Analysis frame 256 samples
- Platform -TMS320C54xx

TI eXpressDSP (XDAIS) Compliance Benefits

- Denoiser is fully TI eXpressDSP compliant algorithm, this guarantees time and money saving in building in any DSP solution.
- This algorithm follows the run-time conventions imposed by TI's implementation of the C prog language.
- This algorithm is re-entrant within a preemptive environment (including time-sliced preemption).
- All algorithm data references are fully relocatable.
- All algorithm code is fully relocatable.
- This algorithm does not directly access any peripheral device.
- This algorithm does not include definitions specific to a debug variant.

Metrics

- Memory requirements
  - Code 13 KW
  - Data 7 KW

Engineering Services

By request, the support of the other platforms may be developed by the experienced well-qualified DSP engineers of Speech Technology Center. Customization according to the customer's needs is also possible

eXpressDSP™ Compliant
DSP
TEXAS INSTRUMENTS

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