

ITU-T G.165 Line Echo Canceller

Analog Devices Blackfin DSP



G.165 Line Echo Canceller

Our implementation of a G.165 **Line Echo Canceller** is designed to reduce or even cancel electrical echoes in the transmission of speech signals. The tail length of the echo suppression can be adjusted to system requirements.

The algorithm is required in DECT telephony system.

Performance:

- Software controlled Coefficient Adaptation
- Software controlled Leakage
- Software controlled Non-linear Processor
- Software controlled Tone Disabler
- Double Talk Detector with Adaptation Control
- Programmable Tail Length

Specifications:

- < 17.2 MIPS per channel (64 msec tail)
- MIPS optimized version on request
- < 1.4K words program memory
- $46 + T * 16$ Words data memory (T = tail in msec)
- Runs on all Blackfin Devices

The algorithm was designed to be independent of the hardware interface, ie. the user specifies input and output channels and must handle buffers in his framework.

The algorithm is fully re-entrant and can easily be integrated in a "C"-environment.

Support:

Available under NDA as a compiled library
Customization/Integration support available
Code portable to other platforms (DSP, non-DSP)
Demo for BF533/BF535-Ezlite on request

Bayer DSP Solutions

was founded in 1995 and offers tools, hardware, software, algorithm and integration services around digital signal processing applications.

A major focus is on telecommunications applications. Bayer DSP Solutions has developed a number of proprietary algorithms for use in private branch exchanges (PBX) for most popular DSP platforms.

Our product range includes Internet radio, secure telephony, medical and industrial control systems, MP3 players and more.

Supported DSP families include Analog Devices ADSP218x, SHARC and Blackfin, TI's C54x, C55x, C3x, C6x, Motorola DSP56K and DSP568xx, ARM as well as DSPs from other vendors.

Bayer DSP Solutions is a registered and active Third Party of Analog Devices, Texas Instruments and other silicon vendors.



Contact:

Andreas R. Bayer
Bayer Digital Signal Processing
Vohwinkelallee 8, 40229 Duesseldorf /
Germany
Tel: +49-211-210 8120
Fax: +49-211-210 8176
Email: solutions@dsp-bayer.de
<http://www.dsp-bayer.de>

立野電腦 EXT營業部
E-mail: sales@dsp-tdi.com

〒198-0063 東京都青梅市梅郷5-955 TEL.0428-77-7000 FAX.0428-77-7010