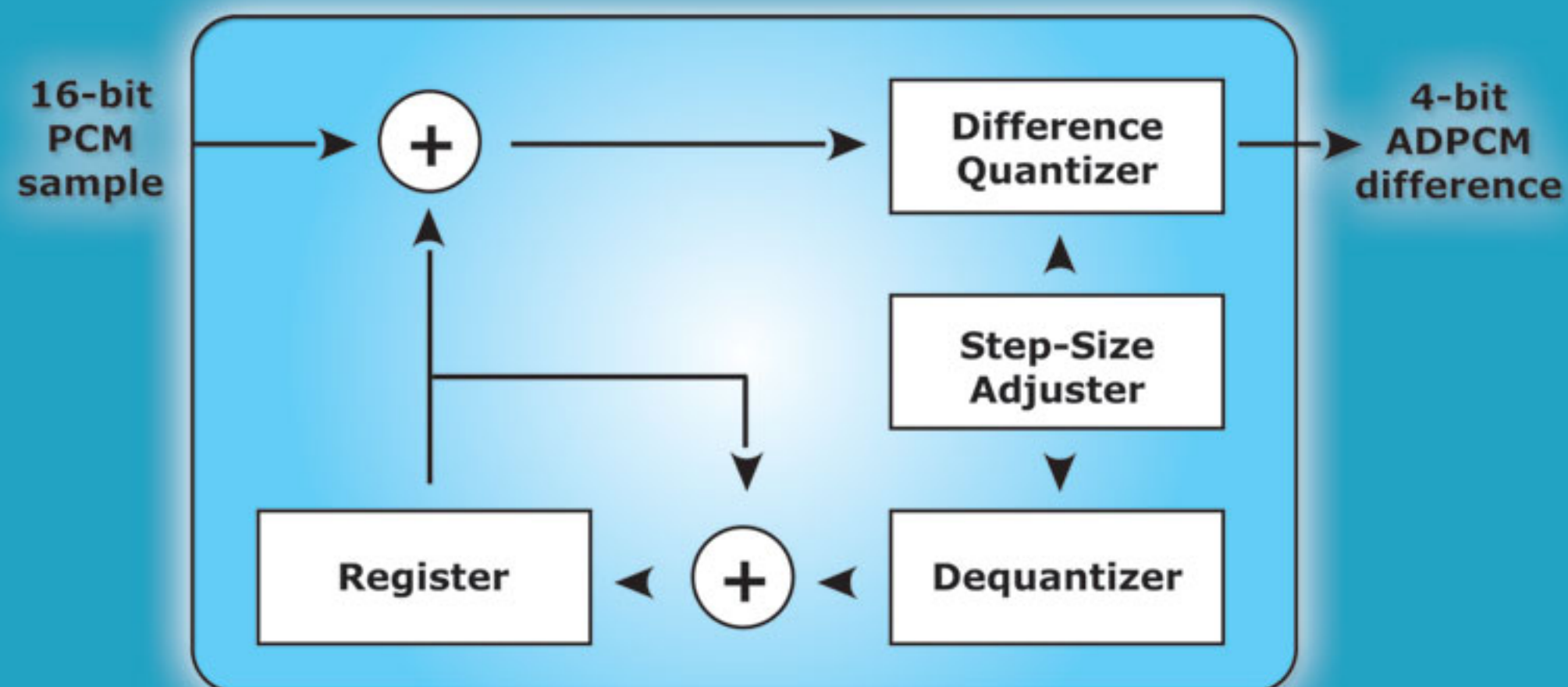


ADPCM

Audio encoder & decoder for DSP & GPP



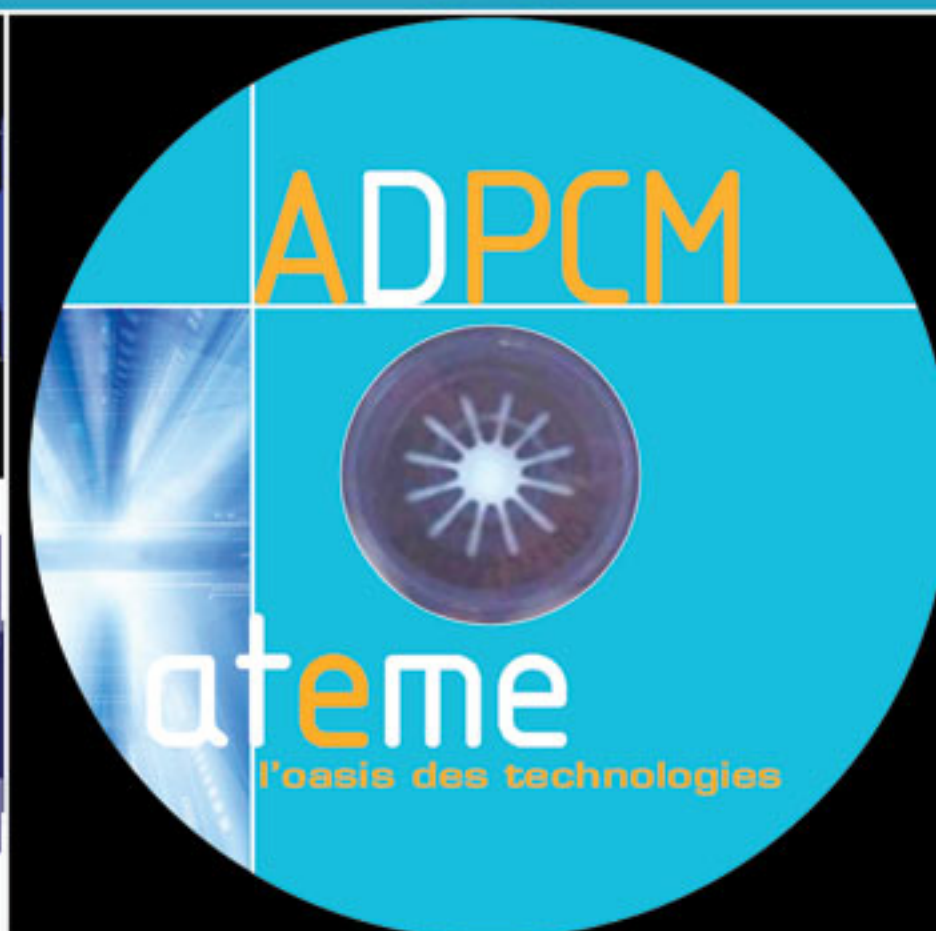
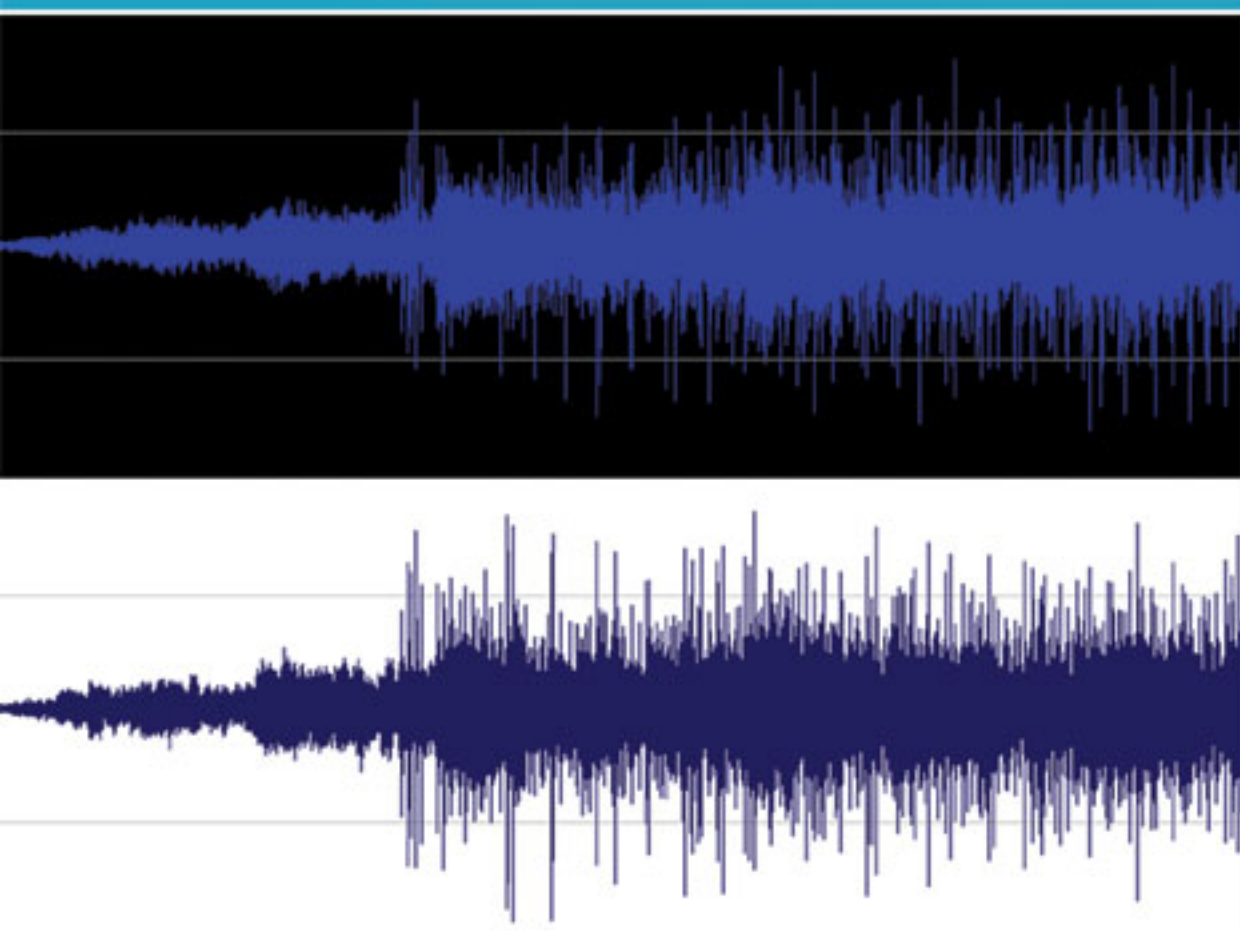
Audio codec
with low
CPU usage

FEATURES

- IMA-ADPCM compliant with DVI4, MS and Apple format
- Very low CPU usage
- 4:1 compression ratio for generic application

APPLICATIONS

- Video security
- Video conferencing
- Streaming



ATEME IMA-ADPCM audio codec is a highly optimised low cost solution for simple audio compression. With its ultra low CPU usage, the IMA-ADPCM is the perfect solution when audio is not the primary concern but a nice value added feature.

Leaving critical CPU Time to primary features such as video compression, IMA-ADPCM offers the welcome addition of sound without sacrificing performance.

It is compatible with most media players and operating systems used with client systems.



KEY FEATURES

- IMA-ADPCM compliant
- DVI4, MS and Apple format
- 4:1 compression ratio
- Very low CPU usage

CD CONTENTS

- Library object
- Sample applications
- User's manual



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Features

- Follow IMA-ADPCM standard
- Compatible with DVI4 (Intel®), Microsoft® and Apple® versions
- Directly supported by most streaming clients such as QuickTime® and RealOne®
- Directly supported by Microsoft® Windows® (when stored in .WAV or .AVI files)
- Support mono, interleaved stereo or separated stereo sample formats
- Fixed 4:1 compression ratio
- Independent of sound type (not a speech codec, not a psychoacoustic codec)
- 32-bit fixed point implementation
- Optimized for very low CPU resources usage
- Algorithm object model allows multiple instantiation
- Available for Texas Instruments C6400 DSP family (including DM64x)
- Available for x86 processors running Windows®
- Soon available for x86 and PowerPC processors running Linux®
- Resistant to network error or packet loss

Resources requirements

Algorithm	Platform	Cycles ⁽¹⁾ CPU usage	Code	Tables	Data
Mono encoding	C6400	3030 < 0.1 %	5 KB	0,5 KB	32 B
Stereo encoding	C6400	3090 < 0.2%			
Mono decoding	C6400	2050 < 0.5 %			
Stereo decoding	C6400	2100 < 0.1%			

Notes:

⁽¹⁾ Number of cycles for encoding/decoding an audio frame of 64 samples (mono) or 32 samples (stereo). CPU usage is given for a 600 MHz C6400 and audio sample clock of 8000 Hz.

Related products

MPEG-4

- MPEG-4 Video Encoder & Decoder for C64000

Hardware platforms

- Imaging Evaluation Kits: IEK C64x
- Digital Media Evaluation Kits: DMEK 6414, DMEK 642
- Open Applicative Development Platform: VSIP (Video Security / Streaming over Internet Protocol)
- Kompressor AMK4x0

Emulation

- aDICE710



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