



## ESPICO

Specialists in Speech and Audio Software Development

### BSAC Decoder

Bit Sliced Arithmetic Coding (BSAC) is an MPEG-4 standard for scalable audio coding. In order to make the bitstream scalable, BSAC uses an alternative to AAC noiseless coding module, although the other coding modules are identical to AAC. A bitstream encoded by AAC can be transcoded to a BSAC bitstream noiselessly. BSAC is capable of generating a bitstream with a precise bit rate control in the range of 16kbps to 64kbps per channel. This bitrate enables the decoder to stop anywhere between 16kbps and the encoded bitrate with a 1kbps step size. Through use of this scalability, the user can experience nearly transparent sound quality at 64kbps and graceful degradation at lower bit rates.



The ESPICO implementations are highly optimised, realising low memory and MHz requirements. Contact ESPICO for specific resource requirements.

#### Features

- ◆ Compliant with ISO/IEC 14496-3 subpart 4
- ◆ Highly optimised for memory and MHz
- ◆ Re-entrant

#### Applications

- ◆ Mobile applications
- ◆ Set-top boxes
- ◆ Digital media broadcast (DMB) applications
- ◆ Car audio
- ◆ Portable audio devices

#### Availability

ESPICO's optimised solution can be ported to any platform. Platforms supported include:

- ◆ ZSP Cores including ZSP400, ZSP500, ZSP800 families
- ◆ ARM including Cortex and Neon™
- ◆ MIPS32 74K™
- ◆ Ceva DSP Cores

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