

SMV Audio Coder

Adaptive Digital Technologies, Inc.

Preliminary

PRODUCT DESCRIPTION

The Adaptive Digital Technologies Selectable Mode Vocoder (SMV) is a real-time implementation of the 3GPP2 standardized vocoder. The vocoder, originally developed for cellular telephony, also has other applications in VoIP. The SMV codec encodes 8 kHz sampled voice audio signals for transmission, and compresses the signals to rates of 8.55, 4.0, or 2.0 kbps.

FEATURES

- Functions are C-callable.
- Multi-Channel Implementation.
- Completely re-entrant (Channel can interrupt any Channel, any time)
- The encoder and decoder meet all ITU SMV compliance data files.
- Includes Packet Loss Concealment Algorithm
- Includes Support for Discontinuous Transmission (DTX)
- Includes optional noise suppression



Strategic member of the TI Third Party Network

AVAILABILITY

ADT SMV is available on the TMS320™ DSP Family C64x™ DSP Generations

SPECIFICATIONS

Coding Rate: 8.55, 4.0, or 2.0 kbps.

Sampling Rate: 8 kHz

Delay: 20 milliseconds

C64x

All Memory usage is given in units of bytes.

ADT SMV	MIPS (Peak)	Program Memory	Data Memory	Scratch Memory	Per-Channel Data Memory
<i>preliminary</i>	35	300 KB	26 KB	15 KB	9.5 KB

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FUNCTION

SMVENC_ADT_init	Initializes an Encode Channel
SMVDEC_ADT_init	Initializes an Decode Channel
SMVENC_ADT_encode	Encodes a frame of data
SMVDEC_ADT_decode	Decodes a frame of data

CONTACT INFORMATION

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