

EVRC Audio Coder
Preliminary

Adaptive Digital Technologies, Inc.

PRODUCT DESCRIPTION

The Adaptive Digital Technologies Enhanced Variable Rate Codec (EVRC) is a real-time implementation of the 3GPP2 standardized vocoder. The vocoder, originally developed for cellular telephony, also has other applications in VoIP. The EVRC codec encodes 8 kHz sampled voice audio signals for transmission, and compresses the signals to 9.6, 4.8, or 1.2 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 EVRC compliance data files.
- Includes Packet Loss Concealment Algorithm
- Includes Support for Discontinuous Transmission (DTX)



Strategic member of the TI Third Party Network

AVAILABILITY

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

SPECIFICATIONS

Coding Rate: 9.6, 4.8, and 1.2 kbps

Sampling Rate: 8 kHz

Delay: 20 milliseconds

C64x

All Memory usage is given in units of bytes.

| ADT EVRC | MIPS (Peak) | Program Memory | Data Memory | Scratch Memory | Per-Channel Data Memory |
|--------------------|-------------|----------------|-------------|----------------|-------------------------|
| <i>preliminary</i> | 25 | 175 KB | 15 KB | 5 KB | 6 KB |

EVRC C64x

FUNCTION

| | |
|--------------------|-------------------------------|
| EVRCENC_ADT_init | Initializes an Encode Channel |
| EVRCDEC_ADT_init | Initializes an Decode Channel |
| EVRCENC_ADT_encode | Encodes a frame of data |
| EVRCDEC_ADT_decode | Decodes a frame of data |

CONTACT INFORMATION

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