

MPEG4 AAC DECODER

Adaptive Digital Technologies, Inc.

PRODUCT DESCRIPTION

The Adaptive Digital Technologies MPEG4-AAC (LC/LTP) Decoder decodes MPEG4 AAC bit streams. The AAC decoder supports MPEG4 audio decoding for ADIF (audio data interchange format) and ADTS (audio data transport stream) encoded data.

FEATURES

- MPEG4 AAC Low complexity (LC) Object type of the standard for up to 2 channels (stereo).
- MPEG4 AAC Long Term Prediction (LTP) Object type of the standard for up to 2 channels (stereo).
- Supports both ADIF (Audio Data Interchange Format) and ADTS (Audio Data Transport Stream) encoded data.
- Compliant with XDAIS specification.
- Data memory can be allocated at run-time.



Strategic member of the TI Third Party Network



eXpressDSP™ Compliant

AVAILABILITY

ADT MPEG4 AAC Decoder is available on the TMS320C5000™ DSP Platform C55x™ DSP Generation

SPECIFICATIONS

Sampling Rate: The MPEG4 AAC Decoder supports sampling frequencies from 8kHz to 96 kHz as specified by the standard.

Bit Rate: The MPEG4 AAC Decoder supports all bit rates specified by the standard.

C55x

Cycles Information—Profiled on TMS320C5510

Configuration	Test File Parameters	MIPS(Max)	MIPS(Avg)
MPEG4_AAC_LC_Low Mem	44.1Khz - 64 kbps	9.41	8.65
MPEG4_AAC_LC_Low MIPS	44.1Khz - 64 kbps	7.01	6.33
MPEG4_AAC_LTP_Low Mem	44.1Khz - 64 kbps	9.41	8.57
MPEG4_AAC_LTP_Low MIPS	44.1Khz - 64 kbps	7.02	6.22

Memory Statistics

All Memory usage is given in units of kilobytes.

Configuration	Program Memory	Constants	Scratch	Instance
MPEG4_AAC_LC_Low Mem	15.27	10.22	8.00	7.48
MPEG4_AAC_LC_Low MIPS	14.61	25.42	8.00	7.48
MPEG4_AAC_LTP_Low Mem	21.46	11.35	12.00	17.48
MPEG4_AAC_LTP_Low MIPS	21.19	25.44	12.00	17.48

▣ _____ Last update: 10/18/2005

FUNCTION

DECODE_create (...) creates an instance of the DECODE algorithm and returns a handle to the object

DECODE_decode (...) processes the decoder

DECODE_delete (...) deletes the instance of the dynamically created object referenced to by the handle

CONTACT INFORMATION

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