

MP3 DECODER

Adaptive Digital Technologies, Inc.

PRODUCT DESCRIPTION

The Adaptive Digital Technologies MP3 Decoder is fully compliant with ISO/IEC 11172-3 (MPEG1 layer 3), ISO/IEC 13818-3.2 (MPEG2 audio) and MPEG2.5 standards as specified by ISO/IEC-11172-4 standard. The MP3 decoder converts audio data in compressed format to uncompressed format. It supports sampling frequencies from 8 kHz to 48 kHz and all bit-rates specified by the standard.

FEATURES

- Supports VBR (variable bit rate) and CBR (constant bit rate) modes.
- Supports all stereo modes (stereo/joint stereo/dual channel/single channel).
- Fully compliant with ISO/IEC 11172-3, ISO/IEC 13818-3.2 (MPEG2 audio) and MPEG2.5 standards.
- Compliant with XDAIS specification.
- Supports all mode extensions for joint stereo.



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Network



eXpressDSP™
Compliant

AVAILABILITY

ADT MP3 Decoder is available on the TMS320C5000™ DSP Platform C55x™ DSP Generation

SPECIFICATIONS

Sampling Rate: The MPEG4 MP3 Decoder supports sampling frequency from 8kHz to 48 kHz as specified by the standard.

Bit Rate: The MPEG4 MP3 Decoder supports all bit rates as specified by the standard.

C55x

Cycles Information—Profiled on TMS320C5510

Configuration	Test File Parameters	MIPS(Max)	MIPS(Avg)
MP3_DEC_ Low MIPS	48kHz - 320 kbps	18.19	16.22
MP3_DEC_ Low Mem	48kHz - 320 kbps	20.67	18.74

Memory Statistics

All Memory usage is given in units of kilobytes.

Configuration	Program Memory	Constants	Scratch	Instance
MP3_DEC_Low MIPS	18.75	13.70	9	9.49
MP3_DEC_Low Mem	17.65	14.38	4.5	9.49

▣ _____ 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 calls to the decoder.

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

CONTACT INFORMATION

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