

# AdecWma

# WMA Decoder

## Introduction

The AdecWma component decodes bitstreams encoded in 'WMA 7/8/9' format. The decoder is optimized to handle bitstreams on the 32-bit TriMedia processors.



## General Information

### Description

The AdecWma decoder is designed to accept input from an ASF Demux. An ASF demux parses the ASF header and sends the required header information to the decoder. The input bitstreams should conform to the ASF specifications. The input audio bitstream can be from a transport stream (HTTP) or a local file.

The decoder conforms to the WMA9 Standard specification and is backward compatible for WMA V8 and WMA V7 streams. The decoder decodes streams with any combination of the supported bitrate and sampling rates of all the 3 profiles (L1,L2,L3), as specified by the WMA9 Standard. This decoder does not support WMA Voice, WMA Professional and WMA Loseless.

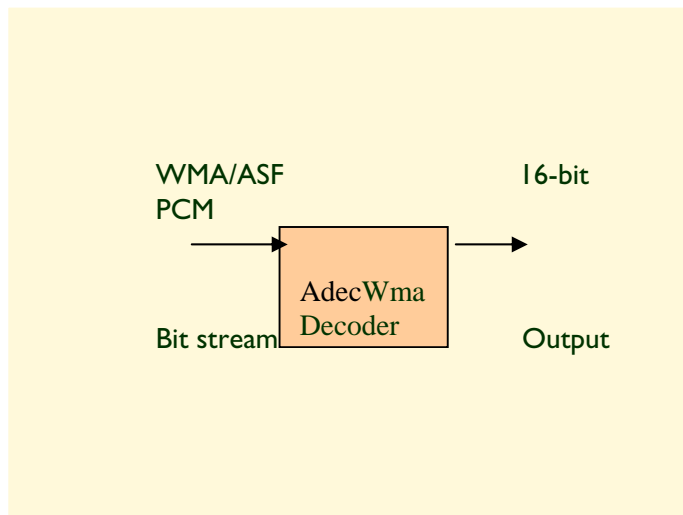
### Applications

WMT Player.

Internet/Multimedia system

### Documentation

API and user documentation is provided with MPTK package.



## Key features

Decodes all WMA/ASF bitstreams which are WMA V7,V8 and V9 compliant.

Stereo output with 16-bit PCM sample resolution

Supports bitrates from 8Kbps to 320Kbps. Both VBR and CBR are supported .

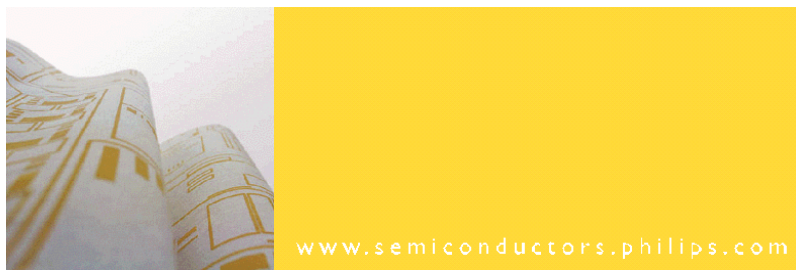
Supports sampling frequencies from 8KHz to 48KHz.

Supports playing from transport streams (HTTP) and local files.

Support for streaming TSSA1 interfaces.

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### Technical Information

#### Memory Usage

Static Memory	225 KBytes
Dynamic Memory	378.5 KBytes

Note that additional memory is required for buffering of input and output data. The amount is highly application dependent.

#### Processor Load (MIPS)

The processor load was measured on a pnx1500 running at 300 MHz with 200MHz DDR.

WMA Version	Sampling Rate KHz	Bit Rate Kbps	CPU Load
V9	44	320	19.6 MIPS
V8	48	192	20.2 MIPS
V7	44	192	12.6 MIPS

### Other Information

Supported Processors	TM1500
Build with Compiler Version	TCS4.61 / NDK5.2.1

### Example Programs

This library is shipped with the example exo1AdecWma. It reads WMA/ASF stream from a file and is sent to the ASF Demux that parses the input file. The demux output is given to the decoder, which decodes it and sends the decoded PCM samples to the Audio renderer. It can also write the decoded PCM samples into a file.



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