



Enhanced aacPlus Decoder

Product Data Sheet

v1.0

Updated: December 11, 2007

Features

- Supports MPEG-2 and MPEG-4 audio decoding
- Supports up to 5.1 channels low complexity (LC) profile decoding
- Supports sampling frequency up to 96 KHz
- Supports .aac input files (RAW, ADIF, ADTS bit streams)
- Supports CBR and VBR
- Supports TNS and PNS tools
- Supports mono and stereo encoded stream
- Configurable support for dynamic range control tool
- Supports decoding of HE-AAC version 1.2 (Spectral Band Replication)
- Supports decoding of HE-ACC version 2.0 (Parametric Stereo, HIGH QUALITY mode)
- Configurability for 16-bit, 24-bit and 32-bit output
- Supports down sampling and error concealment
- Coding Technologies (Dolby Labs) platform certification
- Configurability for interleaved stereo output
- GStreamer plugin wrapper for Linux® platforms
- DirectShow filter wrapper for Windows® CE platforms

Supported Platforms

- Hardware – i.MX ARM11™ platforms
- Software – eLinux, Windows® CE 5.0, Windows® Embedded CE 6.0 operating systems

Performance Metrics

i.MX31 eLinux Platforms

Typical Specifications: 44.1 KHz, 48 Kbps, Stereo

Performance (MHz): 52.72

Memory Footprint (KB):

- ROM: 169
- RAM: 140

i.MX31 Windows® CE Platforms

Typical Specifications: 44.1 KHz, 48 Kbps, Stereo

Performance (MHz): 58.69

Memory Footprint (KB):

- ROM: 169
- RAM: 140

For further details, contact a Freescale customer representative.

Copyright © 2008 Freescale Semiconductor. All rights reserved.

Freescale Confidential and Proprietary