Enhanced aacPlus Decoder
Product Data Sheet

v1.1

Updated: April 1, 2010

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
- OpenMAXIL layer component

Supported Platforms

- Hardware – i.MX ARM11™ and Cortex-A8™ platforms
- Software – eLinux, Windows® Embedded CE operating systems

Performance Metrics

i.MX ARM11™ eLinux Platforms
Typical Specifications: 44.1 KHz, 48 Kbps, Stereo
Performance (MHz): 52.72
Memory Footprint (KB):
- ROM: 169
- RAM: 140

i.MX Cortex-A8™ eLinux Platforms
Typical Specifications: 44.1 KHz, 48 Kbps, Stereo
Performance (MHz): 40.86
Memory Footprint (KB)
- ROM: 169
- RAM: 140

i.MX ARM11™ Windows® CE Platforms
Typical Specifications: 44.1 KHz, 48 Kbps, Stereo
Performance (MHz): 58.69
Memory Footprint (KB):
- ROM: 169
- RAM: 140

i.MX Cortex-A8™ Windows® CE Platforms
Typical Specifications: 44.1 KHz, 48 Kbps, Stereo
Performance (MHz): 42.40
Memory Footprint (KB)
- ROM: 169
- RAM: 140

Performance measurements can deviate based on ARM core, memory and cache configuration on the board. To measure directly, enable the TIME_PROFILE in the test application provided in the release package.

For further details, contact a Freescale customer representative