



MP3 Decoder

Product Data Sheet

V1.1

Updated: April 1, 2010

Features

- Supports MPEG-1 Layer 1/2/3 audio decoding
- Supports MPEG-2 Layer 1/2/3 audio decoding
- Supports MPEG-2.5 Layer 3 audio decoding
- Supports ABR, VBR and CBR
- Supports mono and stereo encoded stream
- 16 bit PCM sample output
- GStreamer plugin wrapper for Linux® platforms
- DirectShow DMO wrapper for Windows® CE platforms
- OpenMAXIL layer component

Supported Platforms

- Hardware – i.MX ARM9™ ARM11™ and Cortex-A8™ platforms
- Software – eLinux, Windows® Embedded CE operating systems

Performance Metrics

i.MX ARM9™ eLinux Platforms

Typical Specifications: 48 KHz, 320 Kbps, Stereo
Performance (MHz): 15.26

Memory Footprint (KB):

- ROM: 35
- RAM: 19

i.MX ARM11™ eLinux Platforms

Typical Specifications: 48 KHz, 320 Kbps, Stereo
Performance (MHz): 9.99

Memory Footprint (KB):

- ROM: 35
- RAM: 19

i.MX Cortex-A8™ eLinux Platforms

Typical Specifications: 48 KHz, 320 Kbps, Stereo
Performance (MHz): 7.84

Memory Footprint (KB):

- ROM: 44
- RAM: 22

i.MX ARM9™ Windows® CE Platforms

Typical Specifications: 48 KHz, 320 Kbps, Stereo
Performance (MHz): 18.06

Memory Footprint (KB):

- ROM: 35
- RAM: 19

i.MX ARM11™ Windows® CE Platforms

Typical Specifications: 48 KHz, 320 Kbps, Stereo
Performance (MHz): 10.65

Memory Footprint (KB):

- ROM: 35
- RAM: 19

i.MX Cortex-A8™ Windows® CE Platforms

Typical Specifications: 48 KHz, 320 Kbps, Stereo
Performance (MHz): 8.04

Memory Footprint (KB):

- ROM: 44
- RAM: 22

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.

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