



WMA Decoder

Product Data Sheet

v1.2

Updated: July 22, 2010

Features

- Supports Windows Media® Audio (WMA) audio decoding
- Compatible with up to WMA version 10
- Supports raw WMA and ASF formats
- Supports the WMA Standard L1, L2 and L3 profiles
- Supports all WMA bit rates and sampling rates, as specified in the L1, L2 and L3 profiles
- Supports mono and stereo decoding
- Configurability for interleaved stereo output
- Configurability for 16-bit, 24-bit and 32-bit output
- Microsoft® platform certification
- GStreamer plugin wrapper for Linux® platforms
- OpenMAXIL layer component

Supported Platforms

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

Performance Outline

i.MX ARM9™ eLinux Platforms

Typical spec: 44 KHz, 320 Kbps

Performance (MHz): 22.79

Memory FootPrint(KB)

- ROM: 68
- RAM: 51
- CODE:46.6

i.MX ARM11™ eLinux Platforms

Typical spec: 44 KHz, 320 Kbps

Performance (MHz): 15.95

Memory FootPrint(KB)

- ROM: 644
- RAM: 51

i.MX Cortex-A8™ eLinux Platforms

Typical spec: 44 KHz, 320 Kbps

Performance (MHz): 11.216

Memory FootPrint(KB)

- ROM: 714
- RAM: 61

i.MX ARM9™ Windows® CE Platforms

Typical spec: 44 KHz, 320 Kbps

Performance (MHz): 19.38

Memory FootPrint(KB)

- ROM: 68
- RAM: 51
- CODE: 46.6

i.MX ARM11™ Windows® CE Platforms

Typical spec: 44 KHz, 320 Kbps

Performance (MHz): 18.62

Memory FootPrint(KB)

- ROM: 644
- RAM: 51

i.MX Cortex-A8™ Windows® CE Platforms

Typical spec: 44 KHz, 320 Kbps

Performance (MHz): 11.00

Memory FootPrint(KB)

- ROM: 714
- RAM: 61

For WMA Pro typical case: 44 KHz, 128kbps, 2 channels

i.MX ARM9™ eLinux Platforms

Performance(MHz): 57.30

i.MX ARM11™ eLinux Platforms

Performance(MHz): 38.69

i.MX Cortex-A8™ eLinux Platforms

Performance(MHz): 35.44

i.MX ARM9™ Windows® CE Platforms

Performance(MHz): 60.20

i.MX ARM11™ Windows® CE Platforms

Performance(MHz):40.58

i.MX Cortex-A8™ eLinux Platforms

Performance(MHz):23.36

For WMA Lossless typical case: 96 KHz, 835kbps, 6 channels

i.MX ARM9™ eLinux Platforms

Performance(MHz): N/A

i.MX ARM11™ eLinux Platforms

Performance(MHz): 196.96

i.MX Cortex-A8™ eLinux Platforms

Performance(MHz): 182.63

i.MX ARM9™ Windows® CE Platforms

Performance(MHz): N/A

i.MX ARM11™ Windows® CE Platforms

Performance(MHz):194.79

i.MX Cortex-A8™ eLinux Platforms

Performance(MHz):145.74

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 Freescale customer representative.

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