08-6387-DS-ZCH66

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MP3 Encoder

Product Data Sheet

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Features

- Supports MPEG-1 Layer 3 audio encoding
- Support 32k, 44.1k, 48 kHz sample rate.
- Support 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 kbps
- Mono, Stereo output
- Input - 16 bits PCM
- Gstreamer Plugin component for Linux® platforms
- DMO component for Windows® CE Platforms
- OpenMAXIL layer component

Supported Platforms

- Hardware – i.MX ARM9™ ARM11™ and ARM12™ platforms
- Software – eLinux, Windows® Embedded CE operating systems

Performance Outline

i.MX ARM9 eLinux
Typical spec: 44.1 KHz, 128 Kbps
Performance (MHz): 35.85
Memory Footprint(KB)
- ROM: 52.3
- RAM: 35.9

i.MX ARM9 WinCE
Typical spec: 44.1 KHz, 128 Kbps
Performance (MHz): 33.26
Memory Footprint(KB)
- ROM: 52.3
- RAM: 35.9

i.MX ARM11 eLinux
Typical spec: 44.1 KHz, 128 Kbps
Performance (MHz): 34.83
Memory Footprint(KB)
- ROM: 52.3
- RAM: 35.9

i.MX ARM11 WinCE
Typical spec: 44.1 KHz, 128 Kbps
Performance (MHz): 41.79
Memory Footprint(KB)
- ROM: 52.3
- RAM: 35.9

i.MX ARM12 eLinux
Typical spec: 44.1 KHz, 128 Kbps
Performance (MHz): 23.02
Memory Footprint(KB)
- ROM: 57.5
- RAM: 35.9

i.MX ARM12 WinCE
Typical spec: 44.1 KHz, 128 Kbps
Performance (MHz): 23.12
Memory Footprint(KB)
- ROM: 57.5
- RAM: 35.9

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.