08-6524-DS-ZCH66

SBC Encoder
Product Data Sheet

v1.2

Updated: April 1, 2010

Features

- Supports sub-band encoder
- Supports 16 KHz, 32KHz, 44.1KHz, 48KHz sample rates
- Supports 4, 8 sub-bands
- Supports 4, 8, 12, 16 block length
- Supports MONO, DUAL MONO, STEREO mode
- Supports psycho-acoustic model
- GStreamer plugin wrapper for Linux® platforms
- DMO filter wrapper for Windows® CE platforms

Supported Platforms

- Hardware – i.MX ARM platforms
- Software – eLinux, Windows® Embedded CE operating systems

Performance Metrics

i.MX ARM9™ eLinux Platforms
Typical Specifications: 48 KHz, Stereo mode, 8 subbands, 16 blocks, bitpool is 56, psycho-acoustic model enable, bit rate is 360000 bps
Performance (MHz): 11.53722

Memory Footprint (KB)
- ROM: 7.5
- RAM: 0.5

i.MX ARM11™ eLinux Platforms
Typical Specifications: 48 KHz, Stereo mode, 8 subbands, 16 blocks, bitpool is 56, psycho-acoustic model enable, bit rate is 360000 bps
Performance (MHz): 11.30

i.MX ARM9™ Windows® CE Platforms
Typical Specifications: 48 KHz, Stereo mode, 8 subbands, 16 blocks, bitpool is 56, psycho-acoustic model enable, bit rate is 360000 bps
Performance (MHz): 11.58350

Memory Footprint (KB)
- ROM: 7.5
- RAM:0.5

i.MX ARM11™ Windows® CE Platforms
Typical Specifications: 48 KHz, Stereo mode, 8 subbands, 16 blocks, bitpool is 56, psycho-acoustic model enable, bit rate is 360000 bps
Performance (MHz): 11.59

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.