08-6912-DS-ZCH66

G.723.1 Codec

Product Data Sheet

V 1.1

Date: April 1, 2010

Features

- Fully bit exact with ITU-T G.723.1
- Supports dtx, no_dtx and non_std input for encoding
- Supports dtx, no_dtx and non_std output for decoding
- Sampling frequency 8 kHz
- 5.3or 6.3 Kbps bit stream rate
- Simple application interface

Supported Platforms

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

Performance Outline

i.MX ARM9™ eLinux
Typical spec: 8KHz, 5.3kbps for encoder
8KHz, 5.3kbps for decoder
Performance (MHz): 32.31 for encoder
4.30 for decoder
Memory Footprint(KB)
Decoder
- ROM: 41.9
- RAM: 2

Encoder
- ROM: 78.8
- RAM: 4

i.MX ARM9™ WinCE
Typical spec: 8KHz, 5.3kbps for encoder
8KHz, 5.3kbps for decoder
Performance (MHz): 34.45 for encoder
5.81 for decoder
Memory Footprint(KB)
Decoder
- ROM: 41.9
- RAM: 2

Encoder
- ROM: 78.8
- RAM: 4

i.MX ARM11™ eLinux
Typical spec: 8KHz, 5.3kbps for encoder
8KHz, 5.3kbps for decoder
Performance (MHz): 31.94 for encoder
3.54 for decoder

i.MX ARM11™ WinCE
Typical spec: 8KHz, 5.3kbps for encoder
8KHz, 5.3kbps for decoder
Performance (MHz): 35.67 for encoder
4.34 for decoder

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