



WB-AMR Codec for Product Data Sheet

V 1.1

Date: April 1, 2010

Features

- Fully bit exact with WB-AMR
- Supports dtx input for encoding
- Supports dtx output for decoding
- Supports ESTI,IF1,IF2,MMS format
- Sampling frequency 8 kHz
- 23.85,23.05,19.85,18.25,15.85,14.25,12.65,8.85 and 6.6 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: 16KHz, 23.05skbps for encoder
16KHz, 23.85kbps for decoder

Performance (MHz):

92.82 for encoder(T23.inp,mode 7)

26.799 for decoder(T16_2385.cod)

Memory Foot Print(KB)

Decoder

- ROM: 70
- RAM: 5.5

Encoder

- ROM: 94
- RAM: 15

i.MX ARM9™ WinCE

Typical spec: 16KHz, 23.05skbps for encoder
16KHz, 23.85kbps for decoder

Performance (MHz):

137.26 for encoder(T23.inp,mode 7)

22.11for decoder(T16_2385.cod)

Memory Foot Print(KB)

Decoder

- ROM: 70
- RAM: 5.5

Encoder

- ROM: 94
- RAM: 15

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