



# NB-AMR Codec

## Product Data Sheet

V 1.1

Date: April 1, 2010

### Features

- Fully bit exact with NB-AMR
- Supports dtx1, dtx2 and no\_dtx input for encoding
- Supports dtx1, dtx2 and no\_dtx output for decoding
- Supports ESTI,IF1,IF2,MMS format
- Sampling frequency 8 kHz
- 12.2, 10.2, 7.9, 7.4, 6.7, 5.9, 5.15 and 4.75 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, 12.2kbps for encoder  
8KHz, 12.2kbps for decoder

Performance (MHz):

34.64 for encoder(T02.INP,MR122)

9.48 for decoder(T03\_102.COD)

Memory Footprint(KB)

Decoder

- ROM: 87
- RAM: 1.4

Encoder

- ROM: 107
- RAM: 7.5

#### **i.MX ARM9™ WinCE**

Typical spec: 8KHz, 12.2kbps for encoder  
8KHz, 12.2kbps for decoder

Performance (MHz):

32.45 for encoder(T02.INP,MR122)

8.75 for decoder(T03\_102.COD)

Memory Footprint(KB)

Decoder

- ROM: 87
- RAM: 1.4

Encoder

- ROM: 107
- RAM: 7.5

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*