



# G.726 Codec

## Product Data Sheet

V 1.1

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### Features

- Fully bit exact with ITU-T G.726
- Supports A-law,  $\mu$ -law or 16bit linear PCM input for encoding
- Supports A-law and  $\mu$ -law or 16bit linear PCM output for decoding
- Supports both sample-by-sample and block based processing
- Sampling frequency 8 kHz
- 16, 24, 32 or 40 Kbps bit stream rate
- Variable frame/buffer memory size according to the system needs
- 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, 64kbps for encoder  
8KHz, 128kbps for decoder  
Performance (MHz): 7.48 for encoder  
8.30 for decoder

Memory Footprint(KB)

- ROM: 16.5
- RAM: 0.4

#### **i.MX ARM9™ WinCE**

Typical spec: 8KHz, 64kbps for encoder  
8KHz, 128kbps for decoder  
Performance (MHz): 8.31 for encoder  
9.49 for decoder

Memory Footprint(KB)

- ROM: 16.5
- RAM: 0.4

**i.MX ARM11 eLinux**

Typical spec: 8KHz, 64kbps for encoder  
8KHz, 128kbps for decoder

Performance (MHz): 6.59 for encoder  
7.24 for decoder

Memory Foot Print(KB)

- ROM: 16.5
- RAM: 0.4

**i.MX ARM11 WinCE**

Typical spec: 8KHz, 64kbps for encoder  
8KHz, 128kbps for decoder

Performance (MHz): 7.09 for encoder  
7.85 for decoder

Memory Foot Print(KB)

- ROM: 16.5
- RAM: 0.4

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.*

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