

## G.722.1 codec

### Description

This data sheet contains the features supported and the performance numbers for a G.722.1 speech codec on ARM9E platform.

### Features

- Bit rates – 24000bps, 32000 bps
- Handling for frame erasures.

### Terms used in this document

ITU	International Telecommunication Union
ARM	Advanced RISC Machine

### Performance Specification on ARM9E

#### Encoder

CPU Load (MCPS)			Program Memory (Kbytes)	Data Memory (Kbytes)			
Bit rate	Peak	Avg		Table	Scratch	Stack	Persistent
24k	7.8	7.3	23.01	10.38	0	2.43	0.625
32k	7.9	7.5					
Input Buffer				Output Buffer			
5 Kb				625 Bytes			

#### Decoder

CPU Load (MCPS)			Program Memory (Kbytes)	Data Memory (Kbytes)			
Bit rate	Peak	Avg		Table	Scratch	Stack	Persistent
24k	7.9	7.5	32.18	9.8	0	2.26	0.96
32k	8.2	7.7					
Input Buffer				Output Buffer			
625 Bytes				5Kb			

#### Note :

1. The output buffer of encoder corresponds to 32Kbps output over 20ms.
2. The input buffer is for 320 audio samples in 16 bit 2's complement format.

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