

## Overview

**G.722.1** – is dual rate wideband (50...7000 Hz) voice codec conforming the ITU-T G.722.1 recommendation. It can be used in a wide range of applications such as multimedia devices, visual telephony, wireless telephony, and videoconferencing products.

## Features

- coding rates 24 or 32 kbps
- frame rate 20 msec
- sampling rate 16 kHz
- Very low CPU and stack usage
- ITU G.722.1 compliant
- Kernel mode compatible

## Applications

- VoIP
- Telephony

## Specifications

PLATFORM	MIPS consumption	Data Memory, Kbytes
<b>Texas Instruments C64xx, DSP/BIOS</b>		
Encoder	1.6	
Decoder	2.4	
Encoder + Decoder	4.0	
<b>Texas Instruments C55xx, DSP/BIOS</b>		
Encoder 24 / 32	5.2	0.7
Decoder 24 / 32	5.4	1.6
Encoder + Decoder 24 / 32	10.6	2.3
<b>ARM9E, GCC, Linux</b>		
Encoder 24 / 32	6.6 / 6.6	0.7
Decoder 24 / 32	7.0 / 7.3	1.6
Encoder + Decoder 24 / 32	13.6 / 13.9	2.3
<b>ARM11, GCC, Linux</b>		
Encoder 24 / 32	4.0 / 3.9	0.7
Decoder 24 / 32	4.2 / 4.4	1.6
Encoder + Decoder 24 / 32	8.2 / 8.3	2.3

## Bit exactness proved by ITE

**G.722.1** is delivered with fully automated IntegrIT Testing Environment (ITE) for target platform based on reference ITU-T vectors set along with extended IntegrIT proprietary vectors and methods.

## Availability

This software component is available in binary/source code written on fully portable C-language for:

- Texas Instruments C55, C64, C64+, DaVinci
- Marvell Sheeva, Marvell Kirkwood, Marvell Armada
- ARM9E, ARM11
- x86 Windows/Linux Object Library

Porting on other platforms is upon request

## Contacts

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