

Overview

G.723.1 – dual rate vocoder conforming the ITU-T G.723.1 recommendation. It can be used in a wide range of applications such as multimedia devices, visual telephony, wireless telephony and videoconferencing products.

Features

- coding rate 5.3 or 6.3 kbps
- integrated VAD and CNG
- sampling rate 8 kHz
- The encoder and decoder meet all ITU G.723.1 compliance and interoperability requirements.
- kernel mode compatible
- very low stack usage

Applications

- VoIP
- Telephony

Specifications

PLATFORM	MIPS consumption
Texas Instruments C64+, DSP/BIOS (note3)	
Encoder 5.3 / 6.3	5.2 / 5.4
Decoder 5.3 / 6.3	0.6 / 0.7
ARM9E, GCC, Linux (note 1)	
Encoder + Decoder 6.3	37.4
ARM11, GCC, Linux (note 2)	
Encoder + Decoder 6.3	27.4
Texas Instruments, C55, DSP/BIOS (note 3)	
Encoder + Decoder 6.3	21.4

NOTES:

1. Measured on Marvell Kirkwood, 1200 MHz
2. Measured on Marvell Armada, 800 MHz
3. Measured on simulator

Bit exactness proved by ITE

G.723.1 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 C64, C64+, C67, DaVinci
- Marvell Sheeva, Marvell Kirkwood, Marvell Armada
- ARM9E, ARM11
- x86 Windows/Linux Object Library

Porting on other platforms is upon request

Contacts

support@integrit.com
Tel: +7 495 545 46 42

<http://www.integrit.com/>