

## Overview

**IntegrIT GSM AMR-WB** – is Adaptive Multi Rate Wide Band vocoder conforming the ITU-T G.722.2 recommendation. Codec provides excellent speech quality in a clean environment at low bitrates. Higher bitrates are useful in noisy conditions and in the presence of music. It can be used in a wide range of applications such as multimedia devices, visual telephony, wireless telephony, and videoconferencing products.

## Features

- nine coding rates in range of 6.60 to 23.85 kbps
- sampling rate 16 kHz
- 16-bit linear signal input
- ITU G.722.2 compliance and interoperability requirements.
- demo available for target and PC

## Applications

- VoIP
- Telephony
- Mobile Communication

## Specifications

PLATFORM	MIPS consumption	Program Memory	Constants	Data Memory
Texas Instruments C64xx, DSP/BIOS				
Encoder	call			
Decoder	call			
ARM9E, GCC, Linux				
Encoder+Decoder, 6.0, VAD on	54.7 <sup>1</sup>			
Encoder+Decoder, 23.0, VAD on	79.5			

## Bit exactness proved by ITE

**GSM AMR-WB** 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 package is available in binary/source code written on fully portable C-language for:

- Texas Instruments TMS320C64xx, DaVinci
- Marvell Sheeva/Kirkwood
- ARM9E
- Windows/Linux Object Library
- Porting on other platforms (Analog Devices, Freescale, etc.) is upon request.

<sup>1</sup> Measured using a reference testing vector on real hardware.