

GSMWBAMR on C64x+ Version 2.00.00.000

Release Notes

January 2012

The GSM WB AMR (Adaptive Multi_Rate Wideband) codec is based on Code Excited Linear prediction (CELP) algorithm. It encodes frames of 20 ms sampled at 16KHz (320 samples) using Code Excited Linear Prediction algorithm. It is a multi-rate codec with nine rates between 6.60Kbps and 23.85Kbps and a low rate background noise encoding mode.

Salient features of this product are described below.

- The code is bit exact with 3GPP WBAMR ANSI C Code 26.173 v 6.0.0 and is tested with 3GPP WBAMR reference test vectors 26.174 v 6.0.0.
- Fully validated on C6455 hardware using CCS version 4.2 with the code generation tools version 7.2.0A10197 for C64x+
- This supports Interface Format 1 (with and without CRC Computation) and Interface Format 2 as specified by 26.201 (WBAMR speech codec frame structure) v 6.0.0.
- This supports MMS_IO Packing Format (MIME File Storage Format) as specified by 3GPP WBAMR ANSI C Code 26.173 v 6.0.0 & RFC3267 Section 5.3
- This supports both Little and Big Endian Mode of operation
- The GSMWBAMR Codec has an Interrupt Latency of less than 4000 cycles
- Supports run time VAD and rate control
- This release supports both ELF and COFF format's for C64x+
- This codec can be used on any of the C6x based platforms such as DM644x, DM646x, OMAP3530, DM648, C6455, C674x, C64x+ and C66x.

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1 New In This Release

- Added ELF support and validated with code generation tools 7.2.0A10197 for C64x+

2 System Requirements

Refer to section 1.1.2 of GSMWBAMR_XDAIS_UserManual_C64x.doc

3 Installing GSMWBAMR on TMS320C64X/C64X+

Refer to chapter 2 of GSMWBAMR_XDAIS_UserManual_C64x.doc

4 Uninstall GSMWBAMR on TMS320C64X/C64X+

Refer to chapter 2 of GSMWBAMR_XDAIS_UserManual_C64x.doc

5 Release Contents

Library, User's Guide, Datasheet, Release Notes

6 Fixed In This Release

- None

7 Known Issues

- None