

SPiRiT GSM AMR-WB+ Codec

The GSM AMR-WB+ audio codec enables the use of wideband audio coding in mobile environment. The main applications of GSM AMR WB+ coder include audio streaming, downloading, uploading, as well as multimedia messaging services. The GSM AMR-WB+ audio codec combines advanced audio coding technology with unrivaled speech coding technology, allowing service providers to deliver consistent high-quality audio while making efficient use of their transmission capacity.

SPiRiT GSM AMR-WB+ utilizes a hybrid ACELP/TCX technique, respectively Algebraic Code Excited Linear Prediction and Transform Coded Excitation. The GSM AMR-WB+ codec has a wide bit-rate range, from 6-48 kbps. Mono rates are scalable from 6-36 kbps, and stereo rates are scalable from 7-48 kbps.

Features

- Hybrid ACELP/TCX technique
- High-fidelity stereo image reproduction at lowest bit rates
- Bits rate: mono 6-36 kbps; stereo 7-48 kbps
- Bandwidth: Ranges from 50 Hz - 7.2 kHz up to 50 Hz - 19.2 kHz
- Can be easily ported to any DSP or RISC platform

Resource requirements are available upon request.

Benefits

- Highly optimized code ideal for resource constrained applications
- Easy integration and fast time-to-market

Applications

- NGN/IMS
- Media servers/gateways
- Portable media players
- VoIP clients
- Mobile phones
- Wireless communication

Availability

- Object code
- Fully functional evaluation object code (available upon request)
- DLL for MS Windows
- TI OMAP3

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