



## ESPICO

Specialists in Speech and Audio Software Development

### ETSI WB-AMR

The ETSI Adaptive Multi-Rate Wideband (WB-AMR) speech codec belongs to the ACELP family of speech coders. WB-AMR operates at nine different bit rates from 6.60 kbps to 23.85 kbps. The codec is fully compliant with the ITU-T G.722.2 specification. Discontinuous transmission (DTX) functionality and Voice Activity Detection (VAD) are supported by the standard. The codec operates on speech frames of 20ms (320 samples).

The ESPICO implementations are highly optimised, realising low memory and MHz requirements. Contact ESPICO for specific resource requirements.



#### Features

- ◆ Encodes and decodes GSM WB-AMR bit-streams compliant with 3GPP specification TS 26.190
- ◆ Supports Voice Activity Detection (VAD)
- ◆ Supports Discontinuous Transmission (DTX)
- ◆ Supports Comfort Noise Generation (CNG)
- ◆ Supports substitution and muting of lost frames

#### Availability

ESPICO's optimised solution can be ported to any platform. Available solutions include:

- ◆ ZSP Cores including ZSP400, ZSP500, ZSP800 families
- ◆ ARM including Cortex and Neon™
- ◆ MIPS32 74K™
- ◆ Ceva DSP Cores

#### Applications

- ◆ Digital cellular telecommunications
- ◆ VoIP
- ◆ Wireless communications
- ◆ IP-PBX

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