

SPiRiT GSM-FR Codec

GSM-FR is the digital speech codec used in GSM digital mobile phone systems. SPiRiT GSM-FR speech codec is an implementation of GSM 06.10 RPELTP (Regular Pulse Excitation-Long Term-Prediction-Linear Predictive Coder) vocoder. This codec operates at 13 kbps bit rate.

Features

- Standard ETSI 1987
- Bandwidth 200 Hz – 3,4 kHz
- Bitrate: 13 kbit/sec
- Sampling rate: 8 kHz
- Simple application interface

Resource Requirements

SPiRiT provides porting services to multiple DSP (Motorola, Analog Devices, etc), RISC and general-purpose processors.

Benefits

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

Applications

- Mobile phones
- Media gateways
- Trunking gateways

Availability

- ARM9
- ARM9E
- TI OMAP3
- Fully functional evaluation object code (available upon request)
- DLL for MS Windows

PLATFORM	ARM 9		
	Encoder	Decoder	Encoder+ Decoder
Peak MIPS	6.77	2.82	9.59
Program Memory, KB	15		
Constant Memory, Byte	48		
Dynamic Memory, KB	1.4		
Scratch Memory, KB	~		

PLATFORM	ARM 9E		
	Encoder	Decoder	Encoder+ Decoder
Peak MIPS	4.21	1.88	6.09
Program Memory, KB	14.4		
Constant Memory, Byte	48		
Dynamic Memory, KB	1.4		
Scratch Memory, KB	~		

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