

SPiRiT G.729.1 Codec

SPiRiT G.729.1 is an 8-32 kbps scalable wideband speech and audio codec interoperable with G.729, G.729A and G.729B.

The output of the G.729.1 coder has a bandwidth of 50-4000 Hz at 8 and 12 kbps and 50-7000 Hz from 14 to 32 kbps.

The G.729EV coder is built upon a three-stage structure: embedded Code-Excited Linear-Prediction (CELP) coding, Time-Domain Bandwidth Extension (TDBWE) and predictive transform coding that will be referred to as Time-Domain Aliasing Cancellation (TDAC).

Features

- Fully bit exact with ITU-T G.729.1 Recommendation
- Supports wideband (50-7000 Hz)
- Supports digital signal sampled at 16 kHz and 8kHz
- Supports 8-32 kbps bitrates
- Code-Excited Linear-Prediction algorithm
- Time-Domain Aliasing Cancellation algorithm
- Simple application interface

Resource Requirements

Platform	ARM9E	
	Encoder	Decoder
Peak MIPS	48	30
Program Memory, KB	115	
Constant Memory, KB	16.6	
Dynamic memory, KB	9.3	
Scratch, KB	7.5	

Benefits

- High robustness
- High audio/speech quality

Key Features

- Full eXpressDSP compliance
- Simple API
- Fully bit exact with ITU-T G.729.1 recommendation

Applications

- Voice over IP communication

Availability

- TI C64xx
- ARM 9E
- TI OMAP3
- MS Windows (DLL library)
- Fully functional evaluation object code

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