



G.723.1

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G.723.1 compresses voice audio in 30 ms frames. An algorithmic look-ahead of 7.5 ms duration means that total algorithmic delay is 37.5 ms.

G.723.1 Voice Coder

OFFICIALLY NAMED DUAL RATE SPEECH CODER FOR MULTIMEDIA COMMUNICATIONS TRANSMITTING AT 5.3 AND 6.3 KBIT/S.

FEATURES

- Fixed bit rate (5.3 kbit/s with 20 byte 30 ms frames, 6.3 kbit/s with 24 byte 30 ms frames)
- eXpress DSP™ Compliant.
- Functions are C-callable.
- Capable of in-band synchronization.
- Can be integrated with echo cancellers, and tone detection/regeneration.
- C64x xDM Compliant: easy codec implementation and integration for DaVinci Technology

Coding Rate: 5.3 or 6.3 kbps

Sampling Rate: 8 kHz

Delay: 37.5 msec

Specifications

Description

Availability

SPECIFICATIONS

G.723.1 Cortex - A | ARMv7/ARMv8

CPU UTILIZATION & MEMORY REQUIREMENTS

All Memory usage is given in units of byte

Function	MIPS (Peak)	Program Memory	Data Memory	Per-Channel	Scratch
Encode	131	166 K	18980	1600	8
Decode	8			504	8

G.723.1 ARM9E / ARM11 | Cortex - M

CPU UTILIZATION & MEMORY REQUIREMENTS

All Memory usage is given in units of byte

Function	MIPS (Peak)	Program Memory	Data Memory	Per-Channel	Scratch
Encode	224	193 K	18980	1600	8
Decode	13			504	8

FUNCTION

codInitializeG723Channel(. . .) Initializes the G.723 voice coder software
decInitializeG723Channel(. . .) Initializes the G.723 voice decoder software
EncodeG723(. . .) Executes the G.723 encoder
DecodeG723(. . .) Executes the G.723 decoder