



Encore's G.726



Processor

TMS320C54x Series.

Technology

G.726 works in four bit rates, viz., 16, 24, 32 and 40 Kbps. This is a waveform coder and works based on the principle of Adaptive Differential Pulse Code Modulation (ADPCM). This coder takes signals sampled at 8000 samples/second and converts to compressed form, depending on the selected rate.

Features

- Fully compatible/bit-exact with the ITU-T G.726 standard.
- Texas Instruments eXpressDSP™ compatible software architecture.
- Frame based design. Current frame is 80 samples, which can be changed to any length.
- Selectable rate on a frame basis.
- Full duplex multi-channel capability.
- Flexible interface with 'C' callability, with a single archive file for all functions.
- Relocatable program and data spaces. Static (state) data memory is dynamically relocatable. Program and table data spaces can be fragmented.
- The code is interruptible and full re-entrant. It can be used in systems with multi threaded software architecture.

Performance

Resource Requirements

Memory (KWords)

Program Memory	Data Memory		
	Tables	Static/Channel	Scratch
3.25	0.208	0.102	0.078

MIPS

MIPS measurements are taken on **TMS320C5410** based target platform with following memory configurations.

Program Memory		SARAM
Data Memory	Tables	DARAM
	Static	DARAM
	Scratch	DARAM

MIPS Specifications for G.726 ADPCM

Rate		Maximum
40 Kbps (μ Law)	Encoder	5.82
	Decoder	7.02
	Total	12.84

Availability

Now.

For further information please visit our web site, <http://www.ncoretech.com> or email to: ip@ncoretech.com or contact:

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