



# Encore's G.729AB

## Processor

ARM9E-S Series.

## Technology

G.729 Annex A with Annex B (G.729AB) is a low bit rate speech coder standard from International Telecommunication Union–Telecommunication standardization sector (ITU-T), for compressing toll quality speech (8000 samples/second). G.729AB is algorithmically simpler to G.729. The coders G.729 and G.729A are inter-operable, i.e., G.729 packet can be decoded by G.729A decoder and vice versa. The typical applications of this speech coder are in telephony over packet networks, like Voice-over-Internet-Protocol (VoIP). This is a very robust speech coder, with very good speech quality comparable to 32 Kbps ADPCM coder.

This coder works at bit rate of 8000 bits/second. Like G.729 Codec, G.729AB is also based on the principle of Complementary Symmetry - Algebraic Code Excited Linear Prediction (CS-ACELP). The coder works on a frame of 80 speech samples (10 msec). Besides, there is a look ahead of 40 samples (5 msec). So the total algorithmic delay for the coder is 15 msec.

## Performance

### Memory (KBytes)

Program Memory	Data Memory		
	Tables	Static/Channel	Scratch
46.36	6.66	2.47	4.45

### MIPS

MIPS measurements are taken on ARM9E-S on Arm Developer Suite.

	Maximum
Encoder	28.12
Decoder	6.47
Full Duplex	<b>34.59</b>

## Availability

Now.

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

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