



Encore's DTMF Generation and Detection

Technology

The Encore's DTMF ID module implements the generation and detection of Dual Tone Multi Frequency (DTMF). DTMF signals consist of two sinusoidal signals, one sinusoid from the high frequencies (1209, 1336, 1477 and 1633Hz) and the other from low frequencies (697, 770, 852 and 941Hz). Four frequencies from each group gives a total of 16 combinations, and are represented for digits 0 to 9, A to D, * and #.

Features

- Compatible with ITU-T Q.23 and Q.24 standards.
- Supports the generation and detection of all 16 DTMF digits
- Configurable parameters like signal level, on-off duration for generation module.
- Multi-channel Capability.
- Flexible Programming Interface ('C' Callable).
- Provided in the form of Hardware Independent Library for easy pointing to the target platform.

Platforms

- TMS320C64x
- TMS320C62x
- TMS320C54x
- Microchip dsPIC
- Coldfire (MCF52xx,53xx,522xx)
- PowerPC

Performance Numbers

Platform	Program Memory (KBytes)	State Memory (KBytes)	Scratch (KBytes)	Tables (KBytes)	MIPS/MCPS	
TMS320C64x	5.1	0.215	0	0.094	Generation	0.022
					Detection	0.8
TMS320C62x	6.34	0.215	0	0.094	Generation	0.022
					Detection	0.83
TMS320C54x	3	0.215	0	0.220	Generation	0.13
					Detection	1.6
M52xx, M53xx, M522xx	2.72	0.23	0	0.35	Generation	1
					Detection	7
PowerPC	4.9	1.64	0.4	0.348	Generation	1
					Detection	6

Availability

Now

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