



Encore's G.168

Processor

TMS320C64xx Series

Technology

Encore's G.168 is an ITU-T G.168 compliant line echo canceller. The Echo Canceller cancels electrical echo arising from 2/4 wire hybrid interface impedance mismatches.

Features

- Maximum echo tail can be configured at the time of echo canceller channel initialization. Possible echo tails are 16 msec, 32 msec or 64 msec.
- Texas Instruments eXpressDSP™ compatible software architecture.
- Double talk detection to avoid divergence in case of double talk.
- Non-linear processing (NLP), which can be enabled or disabled during channel initialization.
- Automatic disabling of adaptation for Fax answer tone (2100 Hz with periodic phase reversal).
- Flexible interface with 'C' callability, with a single archive file for all functions.
- Built-in scratch memory management to avoid run-time overloading of system stack memory.
- Relocatable program and data spaces. Static (state) and scratch data spaces are dynamically relocatable. Program and table data spaces can be fragmented.
- The code is interruptible and re-entrant. It can be used in systems with multi threaded software architecture.

Performance

Resource Requirements

(Internal Code Version 1.0, CCS Version 2.21)

Memory (KBytes)

Echo Tail Length	Program Memory	Data Memory		
		Static/Channel	Scratch	Table
16 msec	16.63	1.53	0.969	0.17
32 msec	16.63	2.03	1.469	0.17
64 msec	16.63	3.03	2.469	0.17

MCPS

MCPS measurements on **TMS320C6416** based Test and Evaluation Board with all program, data and stack in internal L2 memory.

Echo Tail Length	NLP	Maximum
16 msec	Enabled	3.0
32 msec	Enabled	4.1
64 msec	Enabled	6.2

MCPS measurements on **TMS320C6416** based Test and Evaluation Board with all program, data and stack in external memory, L2 configured in 4-Way Cache (256kbytes Cache).

Echo Tail Length	NLP	Maximum
16 msec	Enabled	4.6
32 msec	Enabled	5.5
64 msec	Enabled	7.8

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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