

## Overview

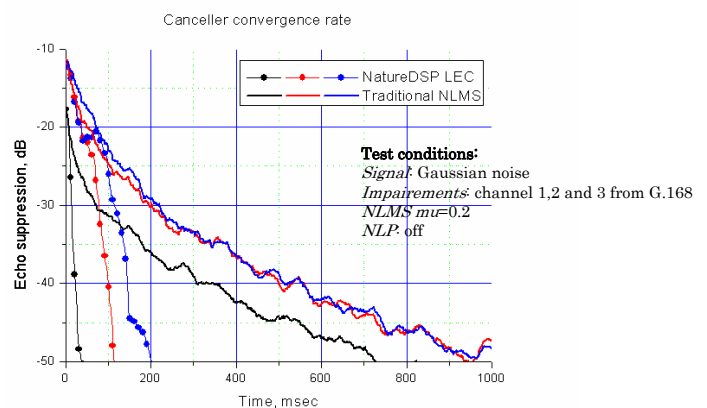
True elimination of echo is critical task for PBX and other VoIP equipment. **IntegrIT Line Echo Cancellor (LEC)** – software product for adaptive echo cancellation for telephone circuits. **IntegrIT LEC** uses modern powerful IPNLMS algorithm which provides the fastest convergence time and intelligent behavior under double-talk conditions. Canceller especially designed for working with non-linear hybrids providing significant ERLE improvement. Adaptive non-linear processing (NLP) scheme eliminates residual echo without speech degradation.

## Features

- adaptive echo cancellation providing comfort conversations even in presence of high line echo (up to 128 msec)
- fastest conversion rate, thanks to IPNLMS scheme – typically 3-5 times faster than traditional cancellers
- nonlinearity compensator suppressing remaining echo caused by nonlinear distortions in electrical or acoustic path or mechanical resonances
- fully tested according to G.168-2004

## Applications

- voice and video over IP conferencing terminals
- PBX
- videophones



## Specifications

PARAMETER	Value			Notes
	Min	Max	Typ	
Echo path	0	128		
Extra echo delay	0	128		allows to take into account delay in drivers
Convergence time, msec			100	@ channel 2 (G.168-2004), suppression 30 dB
NLP threshold	-55	-35		adaptive
Acceptable hybrid echo level, dB		-3		

## Quality proved by ITE

**IntegrIT LEC** is delivered with fully automated IntegrIT Testing Environment (ITE) for target platform based on reference vectors set along with extended IntegrIT proprietary vectors and methods.

## Availability

**IntegrIT Line Echo Cancellor** is ported to various platforms and operating systems such as Windows, Windows Embedded CE 6.0, Linux, MCBC 3.0, DSP-BIOS. It could be run on:

- x86
- ARM9E, ARM11
- Marvell Sheeva/KirKwood/Armada
- DSP Texas Instruments OMAP35xx/C64xx, Analog Devices BlackFin

The product is compatible with other VoIP products of IntegrIT, such as vocoders, noise suppressor, and so on.

## Contacts

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