



# Silentium Active Acoustics 2013

## Line of Business

Active Noise Control  
& Solutions

## Established

2000

## Leading Executives

Mr. Yossi Barath  
Vice Chairman and CEO

Mr. Yoel Naor  
Director of Products

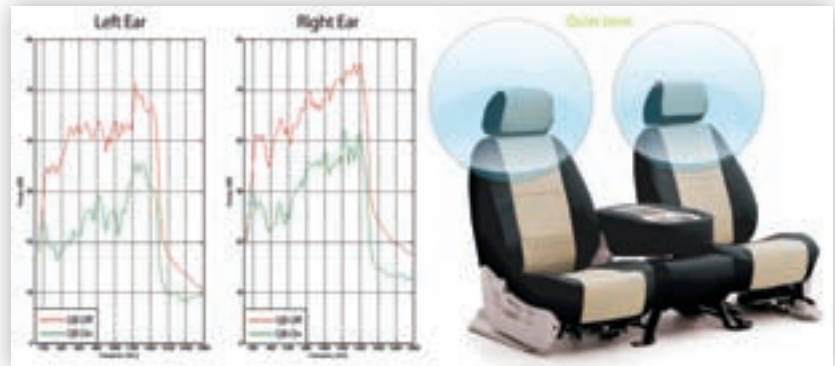
**S**ilentium Ltd. is a high-tech company specializing in developing innovative active acoustic technology and in providing the production tools associated with it. It aims towards confronting the increasing noise pollution generated from a wide range of electric/electronic products. Silentium ANC contains unique cutting edge technology delivering up to 14dB(A) noise reduction across the entire audible spectrum and can be applied to versatile applications such as server/ networking equipment (IT), air treatment, and air conditioning machinery (HVAC) for the industrial, residential, automotive, as well as aviation markets, white goods, range hoods, generators and more. Silentium established liaison with: Intel, Venmar, Behr, Haier, Johnson Controls, Siemens Medical, GE Energy, Faber, LG, Bombardier, almost all Automotive OEM's and many others.

active acoustics and offers a range of tools for product developers and consultants to assist in applying active acoustics solution based on Silentium's S-Cube™ controller. Silentium proposes two alternatives for implementing the electronic controller:

- (i) S-Cube™ controller manufactured by Silentium,
- (ii) RDK (Reference Design Kit), which is a set of instructions for adding the core components of the S-Cube™ to the customer's electronic board.

Numerous development tools are available to engineers that would like to develop their own application using Silentium ANC:

- S-Cube Development Kit (SCDK™) - A DIY Development Tool for ducted ANC
- Quiet Bubble Development Tool (QBDT™): A DIY Development Tool using a MIMO system for implementing Point to Zone and Zone to Zone active noise reduction solutions.



Silentium recently introduced a new innovation: Zone-to-Zone Complex sound field solutions. Silentium is currently in the process of designing and developing a "smart" and robust system that can be positioned in an open space, for example: a car or an aircraft, reducing the disturbing noise independently from the sources of noise, and without interfering with the conversations in the room. This system solution is capable of producing "quiet bubble" around the spatial zone of interest, for instance, around car or aircraft seating. A solution in the form of a headrest is available for automotive, aviation and other applications. Silentium is in advanced collaboration with automotive OEM & tier 1 supplier in embedding its unique solution into the vehicle or seat headrest. Silentium provides full engineering services in implementation of the technology. Silentium has developed a generic controller for

Examples of ANC based products with Silentium's active acoustics solution:

- Cray uses Silentium noise cancellation system to reduce fan noise.
- ActiveSilencer™ Enclosure (ASE™) for Intel® Modular Server: Silentium has collaborated with Intel® to design the enclosure for reducing the server noise by up to 10dB(A)
- FaberSPA uses Silentium noise reduction system to reduce Blower noise in Range Hoods.
- ActiveSilencer™ duct - Ideally used for airpurifying, air-conditioning, furnace systems, Range hood, etc. to provide approximately 10dB (A) noise reduction.
- S-Fan™ - A 12dB(A) hot swap active silencer designed to be installed at the end of an axial fan & blower emitting or sucking air.



## Contact:

**Mr. Yoel Naor**  
Director of Products

Tel: 972 8-9468664#108  
Mobile: 972 54-2320409  
yoel@silentium.com  
www.silentium.com