



Silentium Active Acoustics 2010

Line of Business

Active Noise Control
& Solutions

Leading Executive

Mr. Yossi Barath
Vice Chairman and CEO

Silentium 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 utilizes unique cutting edge technology delivering up to 20dB(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, oven hoods, generator & car diesel engines, and more.

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. Basically, this kind of system is capable of producing quiet bubbles around the spatial zone of interest, for instance, around car or aircraft seats. Examples of ANC based products with Silentium's active acoustics solution:

- Cray CX1 super computer incorporated Silentium's 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



Silentium developed a generic controller for 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.

Silentium recently introduced a new innovation & its Silentium Expert Program (SEP) program:

Structural acoustics solution S-Barrier™

This ASAC technology is based on lightweight composite panels, equipped with piezoelectric actuators and a controller, producing counter vibrations superimposed with the structural vibrations, within the composite panel, to reduce the structure-borne noise.

Zone-to-Zone Complex sound field solutions:

Silentium is currently in the process of designing

the server noise by up to 10dB(A)

- ActiveSilencer™ duct - Ideally used for air-purifying, air-conditioning, furnace systems, oven hood, etc. to provide about 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.

Silentium Expert Program (SEP): Silentium established a new program to provide engineering companies and acoustic solution suppliers with the tools required for expanding their business opportunities by offering active acoustics solutions. Silentium experts will acquire the expertise to offer engineering support in the areas of ANC design, implementation and integration for OEM products & customized solutions. Silentium expert engineering team works closely with local field engineers to ensure OEM Partners success in developing and deploying their solutions based on products and technologies purchased from Silentium.



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