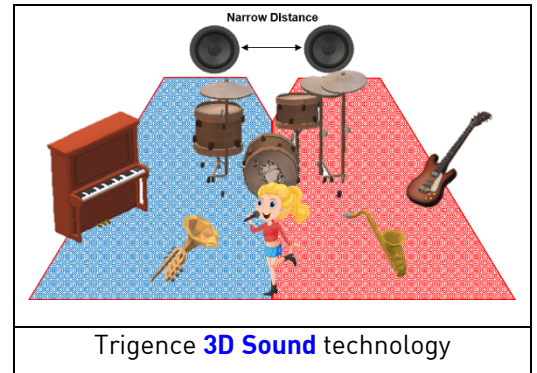


## Trigence Introduces 3D Sound Technology to Audio Market

**Tokyo, Jan. 3, 2019**– Trigence Semiconductor Inc., the leading pure digital audio IC and solution provider, today introduced the latest **3D Sound** technology to the audio market. Trigence 3D Sound technology provides excellent 3-dimensional stereo sound experience for small speaker systems over a narrow distance and enriched sound effect in all kinds of audio devices such as desktops, notebooks, speakers, sound bars, and portable devices.



### 3D Sound Technology

The **3D Sound** technology is developed exclusively by Trigence experienced R&D team in Japan. Trigence 3D Sound technology provides excellent sound experience for small speakers and portable devices. Traditional small speakers produce a narrow range and unclear sound localization due to crosstalk between the listening positions in each channel. With Trigence 3D Sound technology, you can create wide and deep sound positioning using an innovative crosstalk cancellation design, along with DTSC®-based minimum phase control and minimal DSP calculations (approximately 5 MIPS per channel) for a true speaker on-chip model. 3D Sound technology benefits audio device manufacturers creating an extended sound field, clear sound localization, and 3D effect by deploying just the usual stereo sound source and stereo speaker instead of adding special sound source encoding or hardware.

“Trigence experienced audio professionals have always been working to improve sound effect processing and provide an excellent sound quality experience, providing customers with the most convenient and time-saving solutions. Trigence 3D sound technology will optimize the listening experience of small speakers, computers and portable devices.” said Pete Birch, President and CEO of Trigence.

### Features

- **Comfortable Sound Feeling**

It makes comfortable sound feeling by newly developed crosstalk cancellation using

only small delay, and has unique features that the sound field and image are hardly affected by the listening position and head direction, using some built-in parameters to maintain the vocal sound and low frequency audio.

- **Playback on Portable Audio Product**

It offers sufficient 3D effect with low power consumption. If an audio system has a built in DSP, it only needs 5 MIPS per channel.

- **Playback from Stereo Source/Speaker**

It creates an extended sound field, with clear sound localization and 3D feeling over top/ bottom/ left / right with just the usual stereo sound source and stereo speaker. It requires only the T/S parameters of the speaker, distance between speakers, and distance from the speaker to the listening position.

### **About Trigence Semiconductor, Inc.**

Trigence Semiconductor, Inc. is a pioneering audio IC design and solution provider, offering revolutionary 'pure digital' audio products for the consumer and IT markets. Founded in 2006 as a spin-off from Hosei University and headquartered in Tokyo, Japan, Trigence received its first investment in 2012 from Intel Capital. Other subsequent investors include MIYAKO, Supreme, MIRAI SOUZOU, Nittoku and TDK. Its revolutionary Dnote® pure digital audio system has been widely used in computers, headphones, soundbars, smart speakers, CAR audio system and other audio products. Its customers include Intel, Audio-Technica, SHARP, Clarion and other leading consumer electronics manufacturers.

Website: [www.trigence.com](http://www.trigence.com)

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