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Accusonus Achieves 60 Percent Reduction in Computational Cost of Speech Enhancement Software for Cadence Tensilica HiFi DSPs

SAN JOSE, Calif., November 24, 2015—Cadence Design Systems, Inc. (NASDAQ: CDNS) and Accusonus Inc. (Lexington, MA) today announced that the Accusonus Focus-MDR and Focus-DNR speech enhancement software has been optimized for Cadence® Tensilica® HiFi Audio/Voice digital signal processors (DSPs). Accusonus was able to achieve a 60 percent reduction in computational cost as measured in megacycles per second (MCPS) without any loss of quality. With these optimizations, the Accusonus two-microphone embedded joint de-noise and de-reverberation software products reduced the computational requirement to as little as 4.8 MCPS, making them among the most efficient implementations in the market.

The patented Accusonus algorithms eliminate noise and reverberation while significantly improving speech quality to make conversations intelligible, even when there's a large distance between the speaker and microphone. For more information on the Accusonus Focus-MDR and Focus-DNR technology, visit <http://accusonus.com/technologies/focus-voice-engine>.

The Tensilica HiFi DSP is the most widely used licensable audio/voice/speech DSP family, with support for over 160 proven audio/voice software packages and over 75 software partners in the Tensilica Xtensions™ partner program. For more information on the Tensilica HiFi DSP family, visit <http://www.cadence.com/news/HiFiDSP/Accusonus>.

“Our products were, from the very beginning, designed to work in tandem with any other technologies running on the HiFi DSPs and to improve their performance in demanding acoustic environments,” said **Elias Kokkinis, CTO, Accusonus**. “We envision our de-noise and de-reverberation products as essential additional components of any indoor voice processing solution, such as conference systems or IoT devices. By utilizing the flexible architecture of the HiFi DSPs, we have achieved a dramatic improvement in computational

performance without any loss of speech quality and our products are now ideal for those cases where computational efficiency is the top priority.”

“The unique and compelling solution offered by Accusonus significantly improves the voice quality of mobile and IoT devices,” said **Larry Przywara, group director of Audio/Voice IP Marketing at Cadence**. “The dramatic improvement in computational performance provides our customers the advantage of being able to design applications with significantly lower frequency and lower power compared to other architectures.”

About Accusonus

Accusonus is a high technology start-up focused on innovation in digital audio technologies. The company is developing embedded software products for speech enhancement that target the consumer electronics and hearing aid industries. In addition, Accusonus offers innovative software tools to the professional music sector. The company's products are based on state-of-the-art patented and patent-pending technologies. For more information, visit www.accusonus.com.

About Cadence

Cadence enables global electronic design innovation and plays an essential role in the creation of today's integrated circuits and electronics. Customers use Cadence software, hardware, IP and services to design and verify advanced semiconductors, consumer electronics, networking and telecommunications equipment, and computer systems. The company is headquartered in San Jose, Calif., with sales offices, design centers and research facilities around the world to serve the global electronics industry. More information about the company, its products and its services is available at <http://www.cadence.com>.

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