

Socionext Establishes "ForteArt" to Enhance Sound Quality in Wide Range of Applications

Family of Solutions Designed to Resolve Sound Challenges in Consumer, Automotive and Other Systems

Yokohama, August 30, 2018 --- Socionext Inc. today announced a lineup of acoustics solutions now available under the "ForteArt[™]" family of software IPs. ForteArt enhances sound-related user experience, with applications including consumer products, public signage and automotive infotainment systems. The software IPs can be implemented with other vendors' hardware, as well as with Socionext's SoC products.

ForteArt has been organized as a family of solutions to address the increasing amount of broadcast and network video distribution that includes multiple sound channels such as 5.1ch, 7.1ch and 22.2ch. Because many home-use systems include only two speakers, sound effects are often compromised and not full quality. The current ForteArt lineup includes a variety of technologies and solutions, such as "3D Surround Sound Solution" for reproducing "pseudo surround effect" with a two-speaker system, and "Bass Boost Solution" which allows listeners to experience the deep, rich bass sound even with low-cost speakers, by generating signals based on human hearing characteristics and adding those signals to the original sound.

In addition to consumer applications, the technologies can reproduce more stereoscopic and realistic sound for public viewing and digital signage. For automotive systems, ForteArt's "3D Audio HMI" uses existing in-vehicle speakers, with sound-localization technology, to help transmit sound next to the driver's ears. The 3D Audio HMI enhances the driving experience and improves safety through audible navigational assistance and alerts. All of these solutions not only provide built-in functionalities within Socionext SoC products, but also in the form of software IPs which can run on customers' own devices. Equipment manufacturers can implement them without adding any equipment or making any changes to their hardware.

Socionext will continue enhancing the lineup of ForteArt and develop new functionalities and services making the solutions applicable to a wider range of applications. The company is also developing tools for fine-tuning the sound effects according to the use environment and service organizations for the total solutions, to strongly support the product development of equipment manufacturers to deliver excellent user experience.

Press Inquiry

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ForteArt: <https://www.socionext.com/en/products/assp/audio/>



Figure: ForteArt

Customer Inquiry

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About Socionext Inc.

Socionext is a global, innovative enterprise that designs, develops and delivers System-on-Chip based solutions to customers worldwide. The company is focused on imaging, networking, computing and other dynamic technologies that drive today's leading-edge applications. Socionext combines world-class expertise, experience, and an extensive IP portfolio to provide exceptional solutions and ensure a better quality of experience for customers. Founded in 2015, Socionext Inc. is headquartered in Yokohama, and has offices in Japan, Asia, United States and Europe to lead its product development and sales activities. For more information, visit www.socionext.com.

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