

## Socionext to Showcase Latest Automotive Technologies at CIAIE 2019

**Shanghai China, July 24, 2019** --- Socionext Inc. will showcase its latest automotive technologies at International Automotive Intelligent Cockpit Technological Innovation Exhibition (CIAIE), in Shanghai, August 15-17, 2019, at booth No.V059.

<http://www.ciaiechina.com/eng.asp>

With the rapid development of cutting-edge technology, the automotive industry is undergoing earthshaking changes. The way which cars, drivers and passengers interact on will also be fundamentally changed. By visiting booth V059, you can see the latest solutions that can bring more intelligent and safer interactive experience.

### In-Vehicle Graphics Computing

The SC1810 Series is optimized for in-vehicle graphics display applications such as digital clusters, central HMI and surround-view-systems. It is equipped with a proprietary VPU which is compliant with the computer vision API OpenVX, hardware accelerator and programmable data parallel accelerator, enabling advanced image recognition and other advanced functions at high speed and low power consumption.



Socionext SC1810 Integrated Demo

As the interface between user and vehicle hardware, the automotive operating system can provide all kinds of interaction, such as person to car, car to car, and car to Internet. At the Socionext booth, you can fully understand the high compatibility and scalability of the SC1810 through the demonstration. The SC1810 is compatible with both the QNX and eT-Kernel OS, which may provide enhanced automotive functional security and data security.

### Spatial Recognition

The VPU of SC1810 is particularly important for computer vision related applications. It supports Khronos Group's OpenVX, which is an open, royalty-free standard for cross platform acceleration of computer vision applications. With Socionext's VPU, an application developer only needs to use OpenVX API to achieve high performance and low power vision applications. Spatial recognition is an example of real-time computer vision application realized by this VPU.

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#### For Inquiry

Socionext Inc.

<http://www.socionext.com/en/contact/>

### Next VPU/FPGA

Socionext has developed a new Neural Network Accelerator (NNA) engine, optimized for AI processing on edge computing devices. The compact, low power engine has been designed specifically for deep learning inference processing. When implemented, it can achieve 100x performance boost compared with conventional processors for computer vision processing such as image recognition. Socionext started delivering the Software Development Kit for the FPGA implementation of the NNA.

### In-vehicle Remote Display Solution

The multi-display and networking trend of smart cars drives high-quality development for automotive data transmission. The SC1701 series utilizes two display controllers which allows flexible architectures with more than one display in a single chain. In terms of safety, the SC1701 series is equipped with multiple signature units to ensure the integrity of the image display and provide video freezing detection.



Socionext SC1701 Integrated Demo

### About Socionext

Socionext is a global, innovative enterprise that designs, develops and delivers System-on-Chip solutions to customers worldwide. The company is focused on technologies that drive today's leading-edge applications in consumer, automotive and industrial markets. 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](http://www.socionext.com).

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