

Socionext Starts Shipping of Display Controller Optimized for In-Vehicle Head-Up Displays

Langen/Germany, 4. December, 2018 --- Socionext Inc. today announced that the company started the volume shipping of its latest display controller, the SC1711, developed for in-vehicle head-up displays, alongside the software development kit. It features SEERIS[®] 2D graphics engine, high-speed APIX[®]2 interface, as well as comprehensive safety functions, making it suitable for highly safe and cost-competitive in-vehicle display systems.

Interest in safety features for in-vehicle systems is growing very rapidly. In particular, head-up displays (HUD) are attracting a lot of attention as they require less movement in the line of sight to get information, reducing driver fatigue and thus improving safety.



Photo: The SC1711 Series Graphics Display Controller

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The SC1711 was designed to meet the specific needs of HUDs, with features such as Socionext's high-performance 2D graphics engine SEERIS, and APIX 2 high-speed serial interface. Socionext optimized the functionality and performance of the SC1711 for medium resolution displays which are used for HUDs, and integrated these features into a compact 20mm x 20mm package. Socionext also made major improvements in the heat tolerance of the package, to meet the rigorous requirement of dashboard devices used in the harsh temperature environment.

The SC1711 also features the capability to detect display system errors for stable output utilizing a signature unit, which monitors the integrity of display outputs, and a watchdog function. When a screen freezes due to a damaged cable, the SC1711 immediately switches the display output to notify

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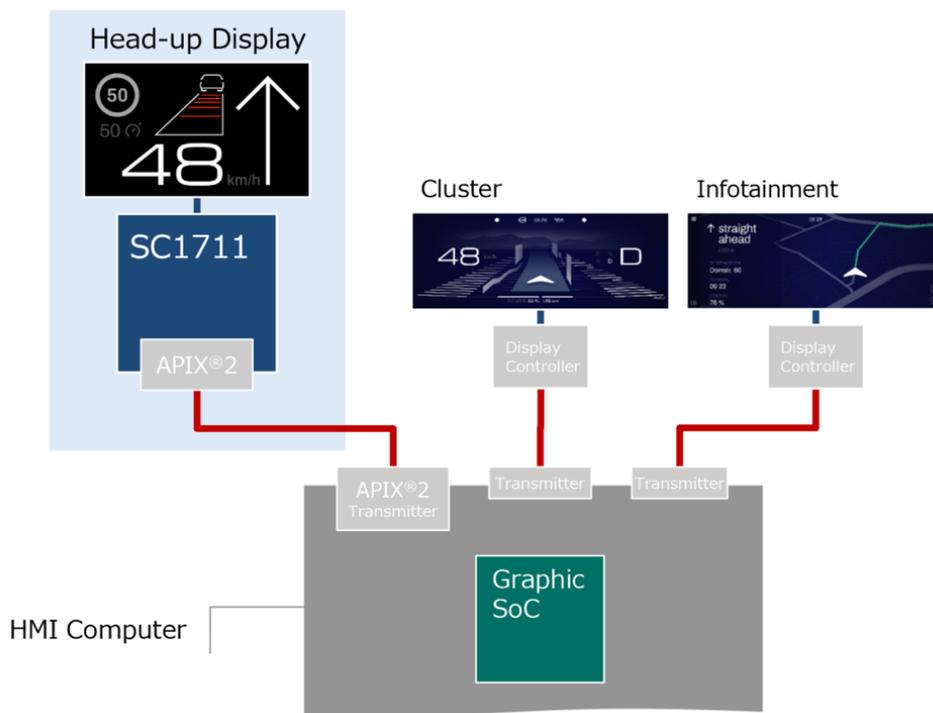
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the driver. The device integrates all necessary features to meet the high safety standards required for automotive applications.

Socionext, as a leading provider of SoC-based in-vehicle graphics solutions, will continue to develop and deliver new products and services, which will serve the needs of high demanding automotive applications.

Main Specifications of SC1711

APIX Generation	APIX®2
APIX Speed (Down / Up)	1Gbps / 187.5Mbps
2D Engine	SEERIS® proprietary IP
Display Output Format	1280 x 480 at 60fps, 24bit (maximum) RSDS, LVDS(OpenLDI), TTL
Memory	SRAM 128kB Flash Memory 56kB
Peripheral Interface	USART-LIN, I2C, GPIO, I2S, PWM, SMC, ADC, HS-SPI
Package	EP-LQFP 176 pin, 20mm x 20mm



System Configuration (Example)

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About Socionext Europe GmbH

Socionext Europe GmbH (SNEU) plays a major role in the worldwide activities of Socionext Inc. Founded in 2015, Socionext Europe is headquartered in Langen, near Frankfurt, with other locations in Munich, Braunschweig, Maidenhead and Swindon (UK) and Linz (Austria).

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About Socionext Inc.

Socionext is a global, innovative enterprise that designs, develops and delivers System-on-Chip 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 socionext.com.

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