Radio – Irreplaceable in the car

Software Solution for advanced Infotainment systems

Berlin, December 5, 2019. The software company OpenSynergy now provides the automotive industry with a flexible radio solution that is not bound to a particular hardware device. The software product, Radio Tuner SDK, can be integrated across different car models, different geographical territories, different hardware and hardware generations. It can be located on the most suitable vehicle ECU (e.g. Head Unit or Telematics Unit) at any place in the car. Moreover, Radio Tuner SDK runs in an Android environment. The architecture provides a scalable turn-key reception solution: from remote tuners boxes to high-end head units. OpenSynergy's CEO, Regis Adjamah, explains: "The system is a good complement to our existing product portfolio as a further building block for the development of an attractive cockpit solution."

In-vehicle Infotainment systems (IVI) development is experiencing major changes; the most prominent being the growth in the distribution of the Android operating system. Thanks to the possibility offered by its Internet Radio apps, Android allows for the reception of a higher number of radio stations compared to the traditional (analogue or digital) radio standard, e.g. FM, DAB or HD Radio. However, Internet Radio - or IP Radio - does not provide "automotive-grade" reliability, as the internet coverage is not ubiquitous and, even where it is present, limited bandwidth might cause poor sound quality. Automotive customers expect radio services to always be available, with consistent high quality in almost every location and at every speed. This requirement, today, can only be fulfilled by traditional radio receivers. This means that an "automotive-grade" Android needs to be complemented with a radio receiver that can support both new radio standards – such as IP Radio - as well as traditional ones.

OpenSynergy's Radio Tuner SDK runs in an Android environment that supports all relevant reception standards, from IP based ones to traditional ones in all territories in the world. The software supports the most popular Radio frequency (RF) chips and is easily portable to various OEM-specific (ARM based) hardware platforms.

The solution is not limited to the realm of the Infotainment-System: since the Radio Tuner is not physically bound to one ECU, it supports new and flexible E/E architectures. For example, the impact of local interferers can be reduced by moving the functionality to a remote ECU. Or, long cables can be eliminated by running the function on a controller near to the antenna. Finally, it also allows new security concepts to be implemented that run redundant functionalities on more than one ECU.

Radio Tuner SDK is tailored for automotive use and comes with automotive-grade support (test, validation, certification) at Spice Level 3. The SDK contains a GUI and Tools allowing early prototyping

PRESS RELEASE

even before the final HMI for the infotainment system is available. Customers such as OEMs and Tier1 suppliers benefit from this software solution as it reduces development time. Radio Tuner SDK therefore enables a reliable fast to market technology.

The tuner has been running in mass production for more than ten years. OpenSynergy is the first providing it now as a non-embedded software solution.

About OpenSynergy

OpenSynergy provides embedded software products for the next generation of vehicles. Our hypervisor and communication products pave the way for an integrated driving experience.

The virtualization platform COQOS Hypervisor SDK supports the convergence of software-based vehicle functions with different requirements on safety and security. It is designed for multi-display cockpit controllers, smart antennae or powerful domain controllers using a mix of AUTOSAR technology and open solutions, such as Linux and Android.

OpenSynergy's communication stacks allow the wireless connection between the car and the cloud or between the car and mobile devices. OpenSynergy's Blue SDK is the reference Bluetooth implementation for many OEMs around the world.

Our engineering services complement the products.

Read more on www.opensynergy.com

Contact:

OpenSynergy GmbH

Sabine Mutumba
Director of Marketing

Rotherstr. 20
D-10245 Berlin
Tel.: +49 (0)30.60 98 540-41
Email: marketing@opensynergy.com

PRESS RELEASE