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Advantech Launches SMARC COM Module with ARM Cortex A9 i.MX6 Processor for Portable Devices

January 31, 2014, Munich— Advantech, a global leader in the embedded COM module market, is glad to announce the launch of the [ROM-5420](#), a RISC SMARC module powered by the Freescale ARM® Cortex™-A9 i.MX6 dual core high performance processor. Miniature in size, ROM-5420 supports camera inputs, and battery power inputs of 3~5.25V that are ideal for portable device development. ROM-5420 is suitable for HMI systems, gaming and infotainment, industrial tablets, medical devices, instrumentation and more.



Slim and Small Design with High Expansion Capability

[ROM-5420](#) is a highly scalable SMARC (Smart Mobility Architecture) form factor module of only 82mm x 50mm size, and an overall assembly height of under 8mm. Based on the Freescale ARM® Cortex™-A9 i.MX6 dual core processor, ROM-5420 supports triple independent displays—Parallel, HDMI and LVDS; plus SATA-II, USB 2.0/OTG, 1 x PCIe, 1 x GbE LAN, 12 x GPIO, 2 x CAN bus, 5 x I²C, 4 x UART and 1 x MIPI camera input. Moreover, ROM-5420 also supports lithium-ion batteries that have +3 ~ 5.25V power input design with suspend mode under 0.3W which makes them an excellent choice for portable applications.

Add-on Value on Security Protection

ROM-5420 offers Security API, a software API for anti-copy protection that is included in the software program and protects the user's image from unauthorized copying. What's more, customer can tailor API and middleware development to their application and apply it to other Advantech RISC products. And, they don't need to update the API once they upgrade their hardware platform in the future.

Streamlined RISC Design-in Support Services

Advantech brings the [ROM-5420](#) RISC-based Computer-on-Module to market together with their renowned RISC Design-in Support Services. A high value development process for modular designs includes planning, design, integration, and validation phases; this

streamlines the whole design procedure and helps customers rapidly develop their own innovations. In addition to standard OS support such as Embedded Linux v3.0.35, Advantech provides three-levels of software service: Evaluative Image, Board Support Package (BSP), and Custom Design Services. This helps customers reduce development time, reduce design costs, and reduce time-to-market.

[SMARC ROM-5420](#) is available now, along with the [ROM-DB5900 evaluation carrier board](#) for easy integration and design reference. Supplied schematics and layout checklists for carrier board development help you to develop your own carrier board much more easily than before. Additionally, Linux BSP, test utilities, design utilities, and reference codes are ready for application development and device integration. Please contact your local salesperson or visit the website for more details.

Features:

- Freescale ARM® Cortex™-A9 i.MX6 Dual core 1GHz high performance processor
- Onboard DDR3 1GB memory and 4GB flash capability
- Supports LVDS, parallel and HDMI with Full HD 1080p hardware video codec engine
- Supports SATA-II, USB 2.0/OTG, 1 PCIe, 1 GBe LAN
- Supports 12 GPIO, 2 CAN bus, 5 I²C, 4 UART, 1 MIPI camera input
- Low-power and fanless design
- Linux kernel V3.0.35 BSP support
- RISC platform design-in services for HW and SW

About Embedded Core Service

Advantech Embedded Core Services offers design-in oriented services. These streamlined solutions broadly integrate embedded boards, peripheral modules and software. This dedicated focus on Embedded Design-in services fulfills electronic engineering demands at their design-in phase, and brings benefits that shorten the design and integration cycles, minimizing uncertainty and risk. www.advantech.eu/EmbCore

About Advantech

Founded in 1983, Advantech is a leader in providing trusted, innovative products, services, and solutions. Advantech offers comprehensive system integration, hardware, software, customer-centric design services, embedded systems, automation products, and global logistics support. We cooperate closely with our partners to help provide complete solutions for a wide array of applications across a diverse range of industries. Our mission is to enable an intelligent planet with Automation and Embedded Computing products and solutions that empower the development of smarter working and living. With Advantech, there is no limit to

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Press Release

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the applications and innovations our products make possible. (Corporate Website: www.advantech.eu).

Advantech is a proven partner of the Freescale Connect Partner Program. The Freescale Connect Partner Program is an essential source for embedded designs based on Freescale solutions.

