

Kontron expands its strategic solution portfolio with Texas Instruments processors

Augsburg, Germany, April 10, 2024 – [Kontron](#), a leading global provider of IoT/Embedded Computer Technology (ECT), announces a new SMARC module based on TI's new AM67x scalable Edge AI processor, boasting up to quad Arm® Cortex®-A53 CPU cores at 1.4-GHz clock frequency. This design enables high-performance computing capabilities while simultaneously achieving lower power consumption compared to alternative cores.

The new SMARC module, based on the AM67x processor from Texas Instruments, enables high-resolution 3D rendering with low latency, high throughput with up to 8GB LPDDR4 memory access and flash storage with up to 32 GB eMMC, as well as USB3, PCIe Gen 3 and two Gigabit Ethernet channels for enhanced system-level connectivity for Linux-based systems. It supports applications such as robotic teach pendants, factory automation, medical, and test and measurement. The AM67x is a device that targets both the analytics and non-analytics markets, with end devices ranging from HMI and single board computers up to multi-camera vision systems with integrated AI.

The AM67x provides high-performance computing technology for both traditional and deep learning algorithms with an industry-leading power-to-performance ratio and a high level of system integration to enable scalability and lower costs for advanced vision camera applications. Key cores include the latest Arm® and GPU processors for general purpose computing, next-generation DSP with scalar and vector cores, dedicated deep learning and traditional algorithm accelerators, an integrated next-generation imaging subsystem (ISP), video codec, and MCU cores, all protected by industrial-grade security hardware accelerators.

“We recognize that AI and computer vision is one of the fastest growing markets for embedded and edge computing technologies. By offering a highly integrated processor platform, TI enables such applications and we are confident that the new market for AI edge server applications will benefit greatly from our Computer-on-Module approach to design these technologies for high data throughput”, said Peter Müller, VP Product Center Modules at Kontron Europe.

The new SMARC module will be available later this year.

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About Kontron

Kontron AG (www.kontron.com, ISIN AT0000A0E9W5, WKN A0X9EJ, KTN) is a leading IoT technology company. For more than 20 years, Kontron has been supporting companies from a wide range of industries to achieve their business goals with intelligent solutions. From automated industrial operations, smarter and safer transport to advanced communications, connectivity, medical, and energy solutions, the company delivers technologies that add value for its customers. With the acquisition of Katek SE in early 2024, Kontron significantly strengthens its portfolio with the new GreenTec division, focusing on solar energy and eMobility, and grows to around 8,000 employees in over 20 countries worldwide. Kontron is listed on the SDAX® and TecDAX® of the German Stock Exchange.

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