

» For Immediate Release «

## **Kontron announces support for AMD Embedded G-Series APUs on three embedded platforms**

Computer-on-Module, Embedded Motherboard and SBC to feature AMD's Accelerated Processing Units for graphics-intensive SFF applications

**Eching, Germany, January 19, 2011** – Parallel to AMD's (NYSE: AMD) launch of the AMD Embedded G-Series platform, Kontron announces that it will support the world's first Accelerated Processing Units (APUs) on three of the company's small form factor (SFF) embedded platforms. With the new AMD Embedded G-Series platform that integrates energy efficient processor cores and an advanced GPU (Graphics Processing Unit) with support for DirectX® 11 into a single Advanced Processing Unit (APU), Kontron extends its small form factor portfolio of [Computer-on-Modules](#), [Embedded Motherboards](#) and [Single Board Computers \(SBC\)](#) for high-performance multi-media content delivery applications. OEMs and system integrators are able to take full advantage of Kontron's extremely scalable and validated platforms that deliver advanced multimedia capabilities while reducing development efforts and optimizing time-to-market for graphics-intensive applications.

The first available embedded Kontron product that will feature the long-term available and highly scalable AMD Embedded G-Series platform is a [COM Express™](#) Computer-on-Module. It will make its debut at the Embedded World trade show in Nuremberg. This launch will be followed by a compact embedded motherboard and an ultra-small SBC in the second quarter of 2011. The Kontron platforms based on the new AMD Embedded G-Series platform will enable OEMs to provide an outstanding visual experience while maintaining very low power consumption. By making these capabilities available in the form factors for that are aligned with the needs of [gaming, infotainment and kiosk applications](#) also helps OEMs develop unique and innovative SFF designs in a shorter time frame. Additionally, with the support for OpenCL™ and Microsoft DirectCompute, parallel processing executed by the graphics core will speed up vector processing applications such as situational awareness and video surveillance required by the industrial [automation](#), [military](#) and [medical](#) markets.

“The new AMD Embedded G-Series platform extends our portfolio of small form factor embedded platforms for applications that require high graphics capabilities and low power consumption,” said Dirk Finstel, CTO at Kontron. “In addition to the kiosk market and professional gaming arena, the new capabilities of the AMD Embedded G-Series platform will enable even more applications in fields such as radar, sonar and image recognition. This is an area where the advantages of the built-in GPU will result in considerable cost savings as opposed to comparable performance using a number of multicore processors. On top of this, we support OEMs with our cross platform middleware, Kontron Embedded Application Programming Interface (Kontron EAPI), that offers highly efficient hardware

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access and application migration to simplify the application development. This helps reduce OEMs R&D costs and time-to-market.”

“Kontron is a leader in embedded computing systems and its three new platforms that are based on the new AMD Embedded G-Series platform are feature-rich and efficient in both size and power,” said Richard Jaenicke, director, product marketing, AMD. “By implementing a high-performance graphics processing unit in our new AMD Embedded G-Series platform to bring a vivid visual experience, we expect that many of Kontron’s customers will find new and exciting applications from Kontron’s three new embedded platforms.”

The AMD Embedded G-Series platform incorporates the highly scalable APU plus a Controller-Hub designed specifically for the embedded market. Besides a single or dual core 64-bit x86 CPU based on new microarchitecture, the APU integrates a GPU, a Universal Video Decoder 3.0, memory and a PCI Express controller. With support for HDCP (1080p), MPEG-2, HD and DivX (MPEG-4) plus DirectX® 11 and OpenGL 4.0 it features high-performance capabilities on a low power design. Dual independent displays are supported by a rich variety of interfaces, including DisplayPort, DVI and HDMI, as well as the embedded interfaces LVDS and VGA at a maximum resolution of 2560x1600 pixels. By supporting OpenCL™ and DirectCompute it enables developers to create highly dynamic multi-threaded data-parallel software applications for real-time pattern recognition in quality control, sonar or radar data analysis, video surveillance or medical imaging applications like the detection of anomalies in 3D X-ray images. With Kontron making these enhancements available on several form factors, OEMs benefit from standardized platforms that minimize design risks and speed time-to-market.

For more information on Kontron COM Express™ Computer-on-Modules please visit:

<http://www.kontron.com/products/computeronmodules/com+express/>

For more information on Kontron embedded motherboards please visit

<http://www.kontron.com/products/boards+and+mezzanines/embedded+motherboards/>

For more information on Kontron Single Board Computers please visit

<http://www.kontron.com/products/boards+and+mezzanines/embedded+sbcs/>

Kontron’s white paper on the AMD Embedded G-Series:

[http://kontron.com/AMD\\_GSeries](http://kontron.com/AMD_GSeries)

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### About Kontron

Kontron, the global leader of embedded computing technology, designs and manufactures embedded and communications standards-based, rugged COTS and custom solutions for OEMs, systems integrators, and application providers in a variety of markets. Kontron engineering and manufacturing facilities, located throughout Europe, North America, and Asia-Pacific, work together with streamlined global sales and support services to help customers reduce their time-to-market and gain a competitive advantage. Kontron's diverse product portfolio includes: boards & mezzanines, Computer-on-Modules, HMIs & displays, systems & platforms, and rugged & custom capabilities. Kontron is a Premier member of the Intel® Embedded Alliance and has been a VDC Platinum Vendor for Embedded Computer Boards 5 years running. Kontron is listed on the German TecDAX stock exchange under the symbol "KBC". For more information, please visit: <http://www.kontron.com>

Digital image (jpg) and text (PDF): <http://www.kontron.com/about-kontron/news-events/kontron+announces+support+for+amd+embedded+gseries+apus+on+three+embedded+platforms.4444.html>

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