Three new Kontron embedded motherboards with 2nd generation Intel® Core™ i3/i5/i7 processors

Kontron ATX and Flex-ATX embedded motherboards stay cool while handling massive computing and visualization workloads with a generous selection of interfaces.

Eching, Germany, December 22, 2011—Today Kontron announced the launch of three additional embedded motherboards in the ATX and Flex-ATX form factors with the 2nd generation Intel® Core™ i3/i5/i7 desktop and mobile processors. They complete Kontron’s family of embedded motherboards based on the Intel® 67 Express chipset, that are now scalable from the compact Mini-ITX up to the fully fledged ATX form factor with more extension slots. These rugged boards offer best-in-class quad core processors with increased performance and double the graphics performance of previous generations. The new Kontron motherboards outperform conventional motherboards, which were developed for the consumer market, thanks to their seven year long-term availability and a generous selection of graphics, communication and extension interfaces.

All three embedded motherboards are equipped with a highly flexible and configurable feature connector. This means the adaptation of the Kontron ATX and Flex-ATX embedded motherboards to individual I/O requirements can be carried out extremely simply and efficiently via the onboard embedded microcontroller. Up to 160 GPIO are supported including analog-to-digital converter (ADC) and digital-to-analog converter (DAC). In addition, the three new embedded motherboards offer the
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cross-platform Kontron Embedded Application Programming Interface (KEAPI) middleware, which speeds up application development and reduces time-to-market and total cost of ownership.

With the integrated Intel® Turbo Boost technology 2.0 and Intel® Advanced Vector Extensions (Intel® AVX), customer applications benefit from faster floating point operations and vectorial calculations with reduced power consumption – ideal for image processing in industrial automation, medical and military applications. Also, for the first time, with the integrated Intel® HD® graphics, the new motherboards offer 2D and 3D graphics performance with DirectX10.1 and OpenGL 3.0 support on-board at the level of dedicated graphics cards which saves space and costs and ensures a stable long-term availability ensured by the Intel® embedded roadmap. Additionally, with 2x DisplayPort, 1x DVI or VGA and LVDS, the new embedded motherboards support all industry-relevant monitor standards without additional adapters or cost.

The features in detail:
The embedded motherboards Kontron KTQM/67FLEX and KTQM/67ATXP which are based on the Mobile Intel® QM67 Express chipset are designed to achieve the highest energy efficiency. They are scalable up to the Intel® Core™ i7-2710QE with a TDP of only 45 W. The well balanced performance per watt ratio makes these boards the ideal solution for applications where high performance, combined with low heat dissipation, is a critical design issue, such as in medical imaging systems or digital signage installations. Video connections include 2x DisplayPort and 1x DVI. To accommodate expansion cards they feature 1x PCI Express x16, 1 PCI Express x1 and up to 6 PCI slots. The ATX embedded motherboard Kontron KTQ67/ATXE with the Intel® Q67 Controller Hub is scalable up to the Intel Core i7-2600 processor with up to 3.8 GHz Turbo frequency (95 W TDP) and a maximum of 32 GB DDR3 RAM. With these benchmarks it is the ideal choice for performance oriented embedded applications that require leading-edge computing power and expansion ports. It executes 2x DisplayPort as well as 1x VGA and LVDS (optional). Expansion slots include 1x PCI Express x4 and 5 PCI slots.

Common to all boards are 14x USB 2.0 and 3xGbE-LAN with Intel® AMT 7.0 support which allow extensive peripheral and networking options. In addition, with Intel® AMT 7.0 the embedded motherboards simplify maintenance, achieving higher system availability and lower overall costs. Numerous storage media can be connected via the 6x SATA interfaces (4x SATA150/300 and 2x SATA600) with RAID 0/1/5/10 functionality and the mSATA (mini-SATA) socket for state-of-the-art onboard SSD. HD audio and a Trusted Platform Module 1.2 for safety-related applications top off the feature set of the new motherboards.

The Kontron Flex-ATX embedded motherboard KTQM67/Flex and the Kontron ATX embedded motherboards KTQM67/ATX and KTQ67/ATX are available now. The boards are supplied with
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comprehensive Board Support Packages for Windows 7, Windows Vista, Windows Embedded Standard 7, VxWorks, as well as Linux distributions such as Red Hat Enterprise, Novell SuSE Linux Enterprise, Red Flag Linux and Wind River Linux.

For more information, on the new Kontron Flex-ATX embedded motherboard KTQM67/FLEX please visit:

For more information, on the new Kontron ATX embedded motherboard KTQM/67ATXP please visit:

For more information, on the new Kontron ATX embedded motherboard KTQ67/ATXE please visit:

Embedded Motherboards Accessories can be found at:
http://www.kontron.com/products/boards+and+mezzanines/embedded+motherboards/accessories/

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About Kontron

Kontron is a global leader in embedded computing technology. With more than 30% of its employees in Research and Development, Kontron creates many of the standards that drive the world’s embedded computing platforms. Kontron’s product longevity, local engineering and support, and value-added services, helps create a sustainable and viable embedded solution for OEMs and system integrators. Kontron works closely with its customers on their embedded application-ready platforms and custom solutions, enabling them to focus on their core competencies. The result is an accelerated time-to-market, reduced total-cost-of-ownership and an improved overall application with leading-edge, highly-reliable embedded technology.

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/three+new+kontron+embedded+motherboards++with+2nd+generation+intel+coreandtrade+i3i5i7+processors.5412.htm
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Contact Details

EMEA
Norbert Hauser
Kontron
Tel: +49 (8341) 803-0
norbert.hauser@kontron.com

Michael Hennen
SAMS Network
Tel: +49 (2405) 45267-20
michael.hennen@samsnetwork.com

Americas
Richard Pugnier
Kontron
Tel:+1 (858) 623-3006
richard.pugnier@us.kontron.com

Annette Keller
Keller Communications
Tel:+1 (949) 640-4811
annettekeller@sbcglobal.net

APAC
Richard Pugnier
Kontron
Tel:+1 (858) 623-3006
richard.pugnier@us.kontron.com

Michael Hennen
SAMS Network
Tel: +49 (2405) 45267-20
michael.hennen@samsnetwork.com

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