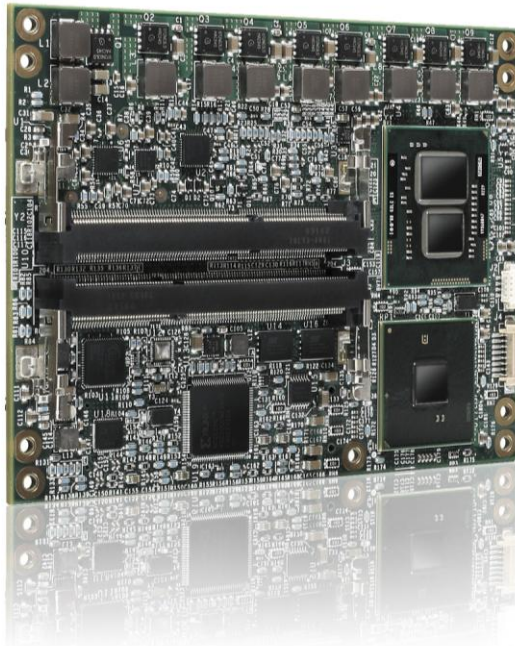


» For Immediate Release «

## **Kontron ETXexpress<sup>®</sup>-AI: COM Express<sup>™</sup> Computer-on-Module with improved graphics and performance plus dependable ECC RAM**

Efficient 32 nm processor technology with higher bandwidth and  
advanced graphics capabilities for best performance



**Eching, Germany, March 2, 2010** – The new Kontron [ETXexpress<sup>®</sup>-AI](#) COM Express<sup>™</sup> Computer-on-Module offers OEMs a new level of design flexibility thanks to its 32 nm Intel<sup>®</sup> Core<sup>™</sup>i7 / Core<sup>™</sup>i5 processor technology, high energy efficiency, wide graphics support, customizable PCI Express configuration and ECC dual channel RAM to ensure data accuracy. Kontron's new [Computer-on-Module](#) offers improved computing and graphics performance in the high-end performance sector.

The Kontron ETXexpress<sup>®</sup>-AI in the [COM Express<sup>™</sup>](#) Basic form factor features the processor-integrated 45nm Intel<sup>®</sup> HD graphics with DisplayPort support. Especially graphics-intensive applications benefit from Open GL 2.1 support and accelerated DirectX 10 capabilities through better and faster visual display. Thus, the new Computer-on-Module is able to achieve up to 2.6 times the graphics performance in comparison to Mobile Intel<sup>®</sup> GM45 and GS45 Express based solutions (according to 3DMark 2006). For safety-critical applications, the Kontron ETXexpress<sup>®</sup>-AI integrates up to 8 GB of ECC system memory and an optional Trusted Platform Module (TPM). The performance of the new Computer-on-Modules is scalable right from the start with a choice of four different Intel<sup>®</sup> Core<sup>™</sup> i7 or Core<sup>™</sup> i5 processors. By integrating the latest 32 nm processor technology for power use efficiency, higher bandwidth, and greater integration, the Kontron ETXexpress<sup>®</sup>-AI COM raises the performance bar compared to solutions based on embedded Intel<sup>®</sup>

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Core<sup>™</sup> 2 Duo processors. The new module not only speeds up multiprocessing tasks via hyper-threading technology (HTT), but also processes single-threaded tasks much faster thanks to the new Intel<sup>®</sup> Turbo Boost technology. Depending on the processor, this allows individual cores to operate between 25% and 100% above the nominal clock speed without exceeding the defined TDP. OEMs in markets such as [gaming, digital signage, network/telecommunications, automation, medical](#) and [MAG \(military, aerospace, government\)](#) who require application-specific customization continue to take advantage of optimized time-to-market and now have an even more secure upgrade path to grow their application's capabilities today and onto future generations.

**Overview of the feature set**

The Kontron ETXexpress<sup>®</sup>-AI is available with the 1.06 GHz Intel<sup>®</sup> Core<sup>™</sup> i7 620UE, the 2.00 GHz Intel<sup>®</sup> Core<sup>™</sup> i7-620LE, the 2.40 GHz Intel<sup>®</sup> Core<sup>™</sup> i5-520E, and up to the fast 2.53 GHz Intel<sup>®</sup> Core<sup>™</sup> i7-610E Processor. All versions support up to 2 x 4 GB of dual channel DDR3 SO-DIMM modules with ECC and offer a comprehensive range of interfaces via the COM Express<sup>™</sup> COM.0 Type 2 connector: 1x PCI Express Gen 2 graphics (PEG) (also configurable as 2x PCIe x8), 6x PCI Express x1, 4x Serial ATA, 1x PATA, 8x USB 2.0, Gigabit Ethernet, dual-channel LVDS, VGA and Intel<sup>®</sup> High Definition Audio. Additionally, older non-PCI Express-compliant components can be incorporated via the integrated PCI 2.3 interfaces. The integrated Intel<sup>®</sup> AMT 6.0 Active Management Technology enables out-of-band remote management. An 8V–18V universal power supply for simplified power distribution rounds out the feature set.

Operating system support is offered for Windows 7<sup>®</sup>, Windows XP, Linux (including Red Hat Enterprise, SuSE, Red Flag and Wind River Linux) and VxWorks. Evaluation samples of the new Kontron ETXexpress<sup>®</sup>-AI Computer-on-Module are now available. Series production will begin during the first half of 2010.

For more information on the Kontron ETXexpress<sup>®</sup>-AI COM Express<sup>™</sup>, please visit

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

For more information on Com Express<sup>™</sup> Computer-on-Modules, please visit:

<http://www.kontron.com/comexpress>

For more information on Computer-on-Modules, please visit: <http://www.kontron.com/COM>

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## Kontron ETXexpress®-AI: COM Express™ Computer-on-Module with improved graphics and performance plus dependable ECC RAM

### 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+etxexpressai+com+express+computeronmodule+with+improved+graphics+and+performance++plus+dependable+ecc+ram.3829.html>

### Contact Details

#### EMEA

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

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

#### Americas

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

Annette Keller  
Keller Communications  
Tel: +1 (949) 640-4811  
[annetekeller@sbcglobal.net](mailto:annetekeller@sbcglobal.net)

#### APAC

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

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

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