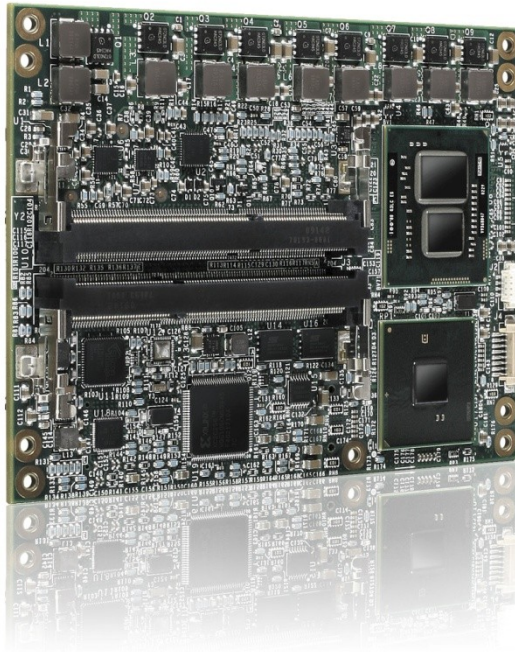


» For Immediate Release «

Kontron COM Express™ Basic form factor Computer-on-Module ETXexpress®-AI now with the new Type 6 pin-out

New module enables enhanced digital graphics capabilities
to support multi-display applications



Eching, Germany, September 1, 2010 – Coinciding with the launch of the COM Express™ 2.0 specification by the PCI Industrial Manufacturers' Group (PICMG®), Kontron presents an additional version of the Computer-on-Module [ETXexpress®-AI](#) based on the new [COM Express™](#) Type 6 pin-out definition.

As compared to the Type 2 pin-out definition for [COM Express™ Basic form factor modules](#), the new Type 6 pin-out offers configurable Digital Display Interfaces (DDI) SDVO, DisplayPort and HDMI/DVI along with 23 PCI Express Gen 2 lanes. This provides more native display options and higher serial bandwidth than previously possible. Most noteworthy is that the native support for all the new display interfaces simplifies carrier board designs, reducing time-to-market and total cost of ownership for graphics-intensive applications. The extensive PCI Express support underscores the trend of moving away from legacy parallel interfaces towards pure serial embedded system designs for higher bandwidth and reduced latency. This represents a smooth transition path for application designers looking to enhance their designs with next generation technology such as faster drives and peripherals.

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“Second generation COM Express™ modules fill the need for Computer-on-Modules based systems of the next generation,” says Dirk Finstel, CTO of Kontron. “Support for all the new graphics interface standards is an important step, since these have been implemented in chipsets and therefore represent a universal standard. For designs with reduced graphics needs, this represents no overhead. Through the increasing integration of the chipsets, the extensive support of generic expansion options gains importance, as our customers use these to implement their dedicated components that lie outside the mainstream and which distinguish themselves from their competitors. Kontron will continue to bring to market Type 2 COM Express™ modules as well as new Type 6 offerings. This supports existing system designs with IDE and PCI implementations while keeping open a smooth migration path for next generation designs. Kontron continues its commitment to providing design security with long-life solutions.”

Compared to its Type 2 counterpart, the new Type 6 Kontron [Computer-on-Module](#) ETXexpress®-AI SKUs offer, among other things, three additional DDIs. The DDIs are now separated from the PCI Express Graphics (PEG) port which allows for the parallel use of the integrated Intel® HD graphics and an external graphics card. The graphics card can be used either for connecting additional displays or as a GPGPU (General Purpose computation on Graphics Processing Unit) for high-performance data processing used in applications such as image processing, data encoding and situational awareness.

For safety-critical applications the Kontron ETXexpress®-AI (both the Type 2 and Type 6 SKUs) integrates up to 8 GB of secure ECC DDR3 system memory and an optional Trusted Platform Module (TPM). Designers creating graphics-intensive applications such as those in [gaming](#), [digital signage](#), [network/telecommunications](#), [automation](#), [medical](#) and [MAG \(Military, Aerospace, and Government\)](#) markets benefit from the increased graphic options built into the new Kontron ETXexpress®-AI. Shorter time to market is achieved and maintained from generation to generation when the module is paired with the application-specific carrier board that now can be simplified because of the features built in to the new Type 6 COMs.

The feature set at a glance

The performance of the Kontron Computer-on-Module ETXexpress®-AI is scalable using four Intel® Core™ i7 and Core™ i5 processors: from the 1.06 GHz Intel® Core™ i7 620UE, the 2.0 GHz Intel® Core™ i7-620LE and 2.4 GHz Intel® Core™ i5 520E up to the 2.53 GHz Intel® Core™ i7 processor 610E. All versions support up to 2 x 4 GB Dual Channel DDR3 ECC SODIMM memory modules and offer a comprehensive set of interfaces via the COM Express™ Type 6 connector: 1x PCI Express Gen 2 Graphics (PEG) also configurable as 2 x PCIe x8, 7x PCI Express x1, 4x Serial ATA, 8x USB 2.0, Gigabit Ethernet and Intel® High Definition Audio. All graphic interfaces of the new COM Express™ module can also be used in parallel. In addition to dual-channel LVDS and VGA,

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developers can draw from the Kontron ETXexpress®-AI Type 6 exported interfaces DisplayPort, HDMI and SDVO. The integrated Intel® Active Management Technology Intel® AMT 6.0 offers extensive remote management capabilities including out-of-band management. An 8V – 18V wide range power adapter for simplified power supply rounds out the feature set.

Operating systems supported include Windows 7, Windows XP, Windows Embedded Standard 7 and 2009, Linux (such as Red Hat Enterprise, SuSE, Red Flag, Wind River Linux) and VxWorks. The Kontron Computer-on-Module ETXexpress®-AI Type 6 is available now.

For more information on the new Kontron COM Express™ Computer ETXexpress-AI-on-Modules please see:

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

For more information about COM Express™ Computer-on-Modules please see:

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

For more information regarding the new COM Express™ Type 6 pin-out, please visit:

http://www.kontron.com/_etc/scripts/application/getcollateral.php?file=whitepaper_comexpresscom.0rev.2.0_en.pdf

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

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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+com+express+basic+form+factor+computeronmodule+etxexpressai+now+with+the+new+type+6+pinout.4058.html>

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