

» For Immediate Release «

Kontron microETXexpress®-PV: 2nd Gen. of Intel® Atom™ Processor based Computer-on-Modules

Accelerator for the new x86 class of cost-effective low power appliances



Eching/Nuremberg, Germany, March, 2 2010 – One of the most attractive new introductions from Kontron at Embedded World is the [Kontron microETXexpress®-PV](#) — Kontron's first [COM Express™](#) Type 2-compatible Computer-on-Module with the new second-generation Intel® Atom™ processor. With Intel's highly integrated two-chip design, dual-core option, and cost-efficient processors, these new modules will accelerate the development of particularly cost-effective ultra-low-power embedded appliances. Beside these new market opportunities it is also a perfect substitute for Intel® Pentium® M based designs.

A highlight of this new compact COM Express™ compatible [Computer-On-Module](#) (95 x 95 mm) is the dual-core version, which now makes it possible to implement multi-core processing features such as asymmetric multiprocessing for dedicated 2-in-1 systems for hardware consolidation into particularly cost-effective low power devices. In addition, due to the completely fanless operation, the new modules also open up entirely new fields of ultra rugged applications. The new Kontron microETXexpress®-PV modules are highly suitable for these cost-effective, ultra-low-power embedded devices, in particular due to their open and freely-scalable x86 architecture that offers the highest compatibility for previous processor generations and thus provides long-term availability, investment security and reduce time to market. Target applications for the new Kontron

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microETXexpress®-PV include both mobile and compact stationary ultra-low-power devices for, e.g., the [gaming, digital signage, POS/POI, medical technology](#) and [automation](#) markets.

The use of Computer-on-Modules in the compact COM Express™ Type 2 compatible form factor is already widely acknowledged as a well-suited method to integrate a core solution for interface-rich ultra-low power semi-custom designs and provides developers with the highest design security and long-term availability at a low TCO for the customer's solution.

The feature set in detail

The new Kontron microETXexpress®-PV Computer-on-Modules are equipped with the 1.66 GHz Intel® Atom™ processor N450, D410 or D510. Integrated into the processor for the first time are both memory controller for up to 2 GB DDR2 RAM and the graphics core with a maximum resolution of 1400x1050 via VGA and 18-bit single channel LVDS for WXGA. For the peripheral connections, the new modules also integrate the new Intel® ICH8M I/O Controller Hub providing particularly rich interface support for the COM Express™ Type 2 pin-out. With 5 flexibly configurable PCI Express lanes, as well as PCI, I²C, SPI and LPC bus, the modules are a key [COTS](#) solution for interface-intensive ultra low power carrier board designs. Furthermore, via the COM Express™ Type 2 connector, the new modules include 1x Gigabit Ethernet, 8x USB 2.0, 3x SATA II as well as optional 1x PATA. A Trusted Platform Module (TPM) and High-Definition Audio (HDA) round out the feature set of the COM Express™ Type 2-based Computer-on-Module with a wide range of power supply (8.5 V DC – 18 V DC).

The new COM Express™ Type 2 compatible Kontron microETXexpress®-PV Computer-on-Module supports Windows® XP, XPe, and Windows® 7, as well as Linux and VxWorks. Early field test samples will be available in Q2 2010 with series production beginning in Q3 2010.

For more information on the Kontron microETXexpress®-PV COM Express™, please visit <http://www.kontron.com/products/computeronmodules/com+express/microetxexpress/microetxexpressv.html>

For more information on microETXexpress, please visit: <http://www.kontron.com/microETXexpress>

For more information on Com Express™ 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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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):

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