

» For Immediate Release «

## **Kontron AM4020 AdvancedMC™ processor board with Intel® Core™ i7 Processor and integrated graphics**

The most powerful single width AdvancedMC™ processor board for the most demanding MicroTCA™ and AdvancedTCA® applications



**Eching, Germany, January 21, 2010**— Kontron today introduced the market's most powerful single-width [AdvancedMC™](#) processor module, designed with the new Intel® Mobile Core™ i7 processor: the [Kontron AM4020](#). With up to 2 x 2.53 GHz, the new Kontron AMC module offers the ultimate in computing power and integrated graphics when utilized in [MicroTCA™](#) and [AdvancedTCA®](#) integrated platforms.

The single-width Kontron AM4020 AdvancedMC™ processor board integrates for the first time the memory controller, PCI Express, and the graphics processor within the multi-core processor. Equipped with the highly-integrated Intel® QM 57 Platform Controller Hub, it offers high power density and performance on an extremely compact footprint. With its outstanding overall performance it is ideal for MicroTCA™ and AdvancedTCA® [telecommunications](#) applications such as IPTV, media servers and media gateways, conference systems, and in test systems for wireline networks. The Kontron AM4020 is also an ideal fit for the [medical](#), [automation](#), aerospace, [military](#), and security markets which require fast data processing. With MicroTCA.1 support for a robust system design and an optional temperature range of -40 to +70 °C, it withstands the toughest mechanical and thermal environmental conditions.

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Kontron's latest [AdvancedMC™ CPU board](#) features the new Intel® Core™ i7 processors with 2.0 GHz (Core™ i7-620LE - 25 W TDP) or 2.53 GHz (Core™ i7-610E - 35 W TDP) and 4 MB L3 cache. The integrated memory controller enables direct access to up to 8 GB of dual channel DDR ECC RAM at 1066 MHz. Compared to the previously available AdvancedMC™ CPU boards with Intel® Core™ 2 Duo processors, customers will experience up to 100% higher overall performance.

Moreover, the AMC.1/.2/.3-compliant Kontron AM4020 CPU board offers eight PCI Express lanes to the backplane, configurable as 2 x PCIe x 4 or 8 x PCIe x 1. There are also four GbE ports; two on the front and two on the backplane (AMC.2) as well as 4 x SATA. For systems without separate hard drives, up to 32 GB of flash memory can be implemented via a SATA Flash module, which is securely screwed to the PCB. The Kontron AM4020 features a DisplayPort output on the front panel making additional graphics modules unnecessary alternatively a COM port for external management access is available. A USB 2.0 port with mini USB jack on the front panel rounds out the feature set.

The Kontron AM4020 has full hot-swap capabilities for monitoring, controlling and replacing the module. The Intelligent Platform Management Interface (IPMI) enhances the board's availability while reducing the overall operating costs and mean-time-to-repair. For board management and basic IPMI commands, it features a dedicated Module Management Controller (MMC).

The highly-integrated Kontron AM4020 AdvancedMC™ processor board is now available in both mid- and full-size formats. It supports Windows XP, Windows 7, as well as VxWorks 6.8 and various Linux distributions such as RedHat 5.3, SUSE 11.2, Wind River Linux PNE 3.X.

For more information about the Kontron AM4020, please visit:

<http://www.kontron.com/products/boards+and+mezzanines/advancedmc/processor/am4020.html>

For more information about AdvancedMC™ modules, please visit:

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

For more information about MicroTCA™, please visit: <http://www.kontron.com/MicroTCA>

For more information about AdvancedTCA®, please visit: <http://www.kontron.com/ATCA>

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### About Kontron

Kontron 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, HMI's & 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>

PR online: <http://www.kontron.com/about-kontron/news-events/kontron+am4020+advancedmc+processor+board+with+intel+core+i7+processor+and+integrated+graphics.3766.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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