

## Kontron's compact and powerful MicroTCA™ platform

*Kontron OM6120 hosts up to 12 AdvancedMC™ modules for exceptional performance and versatility*



**Eching, Germany/Barcelona, Spain, February 16, 2009** – Today, at Mobile World Congress (Hall 2 / Booth 2.1B14), Kontron introduced the [Kontron OM6120](#), a powerful cost-optimized [MicroTCA™ platform](#) that supports up to 12 standard compliant AdvancedMC™ (AMC) modules.

The compact Kontron OM6120 brings exceptional performance and versatility to a wide range of quad-play [telecom applications](#) and high bandwidth datacom applications with significant cost improvements compared to conventional MicroTCA™ platforms. Cost optimization is thanks to its streamlined design that includes Power Management and Fan Control on the backplane, and pluggable Power Supply Units instead of MicroTCA™ Power Modules. All [AdvancedMC™ modules](#) connect to both MCH modules in a dual-star base interface (GbE) on AMC ports 0 and 1. Fabric ports 4-7 of all AdvancedMC™ modules connect to MCH 1, while the AdvancedMC modules' extended fabric ports 8-11 connect to MCH 2, enabling the Kontron OM6120 to support a wide range of configurations.

The possibility to use single and double-width form factor AdvancedMC™ modules provides extraordinary flexibility for a wide-range of applications that demand high processing power, high

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throughput and low latency. In combination with the layout of two rows of AdvancedMC™ bays, the fabric options facilitate the implementation of dual-channel processor architectures with arbitration or checkpoints between the channels. By accommodating a high number of multi-core AdvancedMC™ modules and allowing a tight coupling of processors over high-speed communication links (over the backplane), the Kontron OM6120 is also well suited for image processing applications in single-channel or dual-channel architectures.

The port mapping and use of clocks on the Kontron OM6120 backplane corresponds to SCOPE alliance (SCOPE port mapping) recommendations. This enables the synchronization of processor AdvancedMC™ modules to an internal or external clock for applications such as real-time processing or complex robotic motion-control.

The Kontron OM6120 chassis has removable mounting brackets at the sides. Since the width is less than half the size of a 19" frame, two OM6120 chassis can be mounted together in a single 19" frame, providing space for 24 modules in a 5U, 19" form factor. An extra (redundant) fan tray can be mounted on top. The Kontron OM6120 is available with pedestals for table top operation, making it ideal for lab development.

The cube design ensures the most efficient use of space for AdvancedMC™ modules while keeping the cooling simple (maximum two AMCs in-line in the air stream, or one double-width AMC). Cooling in alternative chassis designs with 3 or 4 AdvancedMCs™ in-line is much more demanding. In comparison with other MicroTCA™ systems or rack mount servers, the Kontron OM6120 also achieves unparalleled computing density (in terms of AMC space per total chassis volume).

The basic Kontron OM6120 configuration contains two AC power supply units, so no extra AC/DC converters are needed. Also included in the basic configuration are two [Kontron AM4901 Management Carrier Hubs \(MCH\)](#) in a cost-optimized design. Additional Kontron AdvancedMC™ processor modules such as the [Kontron AM4010](#), [Kontron AM4011](#) or [Kontron AM4101](#) can be added according to customer requirements. The Kontron OM6120 AdvancedMC™ platform ships fully configured and tested, including an installed operating system (Windows, Linux Red Hat or WindRiver, VxWorks).

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### Availability

The Kontron OM6120 is available now.

More about the Kontron OM6120 MicroTCA™ platform:

<http://www.kontron.com/products/systems+and+platforms/microtca+integrated+platforms/om6120.html>

More about Kontron MicroTCA™ platforms:

<http://www.kontron.com/products/systems+and+platforms/microtca+integrated+platforms/>

More about MicroTCA™: <http://www.kontron.com/microtca/>

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### About Kontron

Kontron designs and manufactures standard-based and custom embedded and communications 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 and mezzanines, Computer-on-Modules, HMIs and displays, systems, and custom capabilities. Kontron is a Premier member of the Intel® Embedded and Communications Alliance. The company has been a VDC Platinum vendor for Embedded Computer Boards for the last 5 years. Kontron is listed on the German TecDAX stock exchange under the symbol "KBC". For more information, please visit:

[www.kontron.com](http://www.kontron.com).

Digital image (jpg) and text (PDF): <http://www.kontron.com/about-kontron/news-events/kontrons+compact+and+powerful+microtca+platform.3391.html>

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