

Kontron OM6040: Open Modular MicroTCA Platform with Single-Star Backplane for PCI Express and Gigabit Ethernet

Pre-Validated Turbocharger Platform for AdvancedMC Based Systems



Eching/Nuremberg, Germany, November 28, 2007 – Kontron (SPS/IPC/DRIVES Hall 7 / Booth 7-306) introduced the Kontron OM6040, a compact and modular MicroTCA platform that is ideally configured for the design of small, compact and highly integrated multiprocessor systems based on either PCI Express (PCIe) and Gigabit Ethernet (GbE) packet switching backplane technologies.

Small, packet switched backplane systems are the first choice for telecommunication applications in markets such as 3GSM, triple play, military, police, government and avionics. As well as telecommunications, image and video processing applications in the medical, industrial quality management and simulation sectors profit from the extremely fast serial communication protocols.

For entry-level systems and lab validation, the Kontron OM6040 open modular MicroTCA platform provides the most cost-effective and pre-validated solution that is perfectly equipped with either the Kontron AM4010 AdvancedMC processor module or with the optional Kontron AM4100. The Kontron AM4010 AdvancedMC processor module is available in an array of LV and ULV Intel® Core™ Duo and Intel Core2 Duo processor options that represent substantial processing power and maximum MIPS per Watt for both AdvancedTCA and MicroTCA redundant system designs. Based on the

**Kontron OM6040: Open, Modular MicroTCA Platform
with Single-Star Backplane
for PCI Express and Gigabit Ethernet**

1.5 GHz Dual Core Freescale PowerPC® MPC8641D, the optional Kontron AM4100 delivers up to 2.3 MIPS/MHz computing performance and maximum Ethernet bandwidth without breaking the power budgets of modular AdvancedTCA carriers or highly-integrated, redundant MicroTCA multi-processing systems. The AM4100 version also supports Serial Rapid I/O as alternative option to PCI Express.

The chassis of the open modular Kontron OM6040 MicroTCA platform is 3U high, 250 mm deep and 156 mm wide. It contains an AC power supply and fans with airflow from below the AdvancedMC slots. The open modular platform supports one slot for one full-size MCH (MicroTCA controller hub) and 4 slots for full-size AdvancedMCs. The single star-backplane connects GbE and PCIe to each of the 4 AdvancedMC slots. It can be used to connect multiple processor-AdvancedMCs over GbE as well as for I/O AdvancedMCs or VGA cards, which connect over PCIe. In addition, the backplane supports point-to-point connections for SAS or SATA HDD on AdvancedMC for two selected slots. The MCH supports a total of 6x GbE ports to AdvancedMCs plus 1 GbE port on the front for interconnection. The MCH also supports 4x PCIe lanes to each slot and provides all clocks including the PCIe spread spectrum clock. As alternative to PCI Express, the modular MCH is also available with Serial Rapid IO.

The compact Kontron OM6040 MicroTCA open modular platform enables the set-up of cost effective MicroTCA environments with AdvancedMCs e.g. for validation of system designs and technical feasibility. The single-star backplane supports multi-processor applications with up to four AdvancedMCs on a limited scale and without redundancy. For larger systems with up to 12 AdvancedMCs, Kontron also provides open modular platforms with dual-star backplanes and redundant MCHs.

The pre-validated Kontron OM6040 open modular platform is available now. For more information please visit: <http://www.kontron.com/OM6040>

###

**Kontron OM6040: Open, Modular MicroTCA Platform
with Single-Star Backplane
for PCI Express and Gigabit Ethernet**

About Kontron

Kontron designs and manufactures standard-based and custom embedded and communication 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: Computer-on-Modules, SBCs/blades, open-modular platforms and systems, HMI's, and custom capabilities. Kontron is a Premier member of the Intel® Embedded and Communications Alliance and was awarded 2006 Intel Member of the Year. The company is a recent three-time VDC Platinum vendor for Embedded Computer Boards. Kontron is listed on the German TecDAX stock exchange under the symbol "KBC". For more information, please visit: www.kontron.com.

Digital text (PDF): <http://www.kontron.com/pr/Modular-MicroTCA-System-Platform-OM6040-ENG071128.pdf>
Digital image (jpg): <http://www.kontron.com/pr/Modular-MicroTCA-System-Platform-OM6040-071128.jpg>

For more information:

Reader contact EMEA:

Kontron AG
Oskar-von-Miller-Strasse 1 /
85386 Eching/Munich
Germany
Tel: +49 (8165) 77-777
Fax: +49 (8165) 77-279
<http://www.kontron.com>
sales@kontron.com

Editor contact EMEA:

Michael Hennen
SAMS Network
Schulstr. 2
52134 Herzogenrath
Germany
Tel: +49 (2407) 9517-600
Fax: +49 (2407) 9517-605
michael.hennen@sams-network.com

Kontron is trademark or registered trademark of Kontron AG. All other brand or product names are trademarks or registered trademarks or copyrights by their respective owners and are recognized.