

## Kontron Concept Box: Embedded Box PCs in different sizes and flexible configurations

*“Form follows function” concept reduces development effort and time to-market*



**Eching, Germany, December 03, 2008** – With the Kontron [Concept Box](#), Kontron presents a new series of fanless compact [Embedded Box PCs](#) that come in different physical sizes and can be flexibly configured according to individual functional requirements. This significantly reduces the time-to-market for compact Box PCs with customer-specific configurations.

Starting from the smallest dimensions of 40 x 200 x 200 mm (H x W x D), OEMs can use the “form follows function” principle to configure their individual Embedded Box PCs with respect to size, system components and feature set in order to meet their application-specific requirements. From the outset, the flexible assembly and interface concept have been designed to meet the different configuration requirements of complete OEM solutions. This significantly reduces initial development costs. In addition, OEMs achieve faster time-to-market thanks to “5-5-5” service: A system simulation is ready within 5 days and the first fully functioning prototype 5 weeks after the successful simulation. Series production begins 5 weeks after prototype approval. Box PCs are used in the automation, POS/POI, medical, security, transportation and gaming sectors.

**Kontron Concept Box:  
Embedded Box PCs in different  
sizes and flexible configurations**

“With the Kontron Concept Box OEMs receive a tailor-made Box PC platform for their individual applications that has the flexibility of a custom design and the time-to-market of a Commercial-Off-The-Shelf solution”, explains Norbert Hauser, Vice President Marketing at Kontron. “Kontron thereby extends its series of COTS Box PCs with an additional member that now offers scalability in terms of its physical dimensions. This minimizes the amount of customization effort for small Box PCs. After the successful introduction of this solution with [mini-ITX motherboards](#), we are looking forward to extending this concept to other form factors.”

The Kontron Concept Box gets its high level of flexibility from the modular housing concept. This concept is based on standard housing profiles that come in different lengths and widths as required. Standard profiles are also used on the front panel with individual openings for dedicated I/Os as well as at the rear. The flexible design is a considerable advantage when it comes to custom assembly in OEM devices and implementing application specific interfaces.

Expansion cards can be positioned exactly where they are needed: in the expansion slots, or flatter with the use of raiser adapters or by means of embedded cables next to, in front of, behind or under the motherboard. This can be implemented with standard PCI and PCI Express expansion cards or with any other PCI or PCI Express compatible expansion card. A simple Concept Box, for example, can be implemented with a motherboard and Slim Raid hard drive that are positioned either next to each other (flat and wide), one behind the other (flat and deep) or one above the other (narrow and high). The shape of the system is thereby determined by the requirements of the OEM device or installation environment. Following the hard drive example, the standard interface block of the mini-ITX motherboard can be positioned to the right, left, above or below. Placing the interface block below is only possible when the processor cooling system permits convection cooling from below.

The choice of Kontron mini-ITX motherboard and processor determines which basis version of the Kontron Concept Box is used. Customers have a wide choice ranging from the Intel® Atom™ Z5xx processors, Intel Core™2 Duo processors and AMD processors. All of the Kontron Concept Boxes are fanless for reliable operation in temperatures ranging from 0 to 50 °C. The maximum Thermal Design Power for the motherboard is 35 watts and the system is designed to operate with a maximum power demand of 70 watts. Power supply is via DC-IN.

The Kontron Concept Box is available as a tailor-made, tested and, if required, certified solution. Each individual system is incorporated into Kontron's product portfolio to give it the same long-term availability management as a serial product. Kontron takes care of the entire production, from the motherboard to producing the complete Box PC system according to customer-specific batch sizes.

More information about the Kontron Concept Box:

## Kontron Concept Box: Embedded Box PCs in different sizes and flexible configurations

<http://www.kontron.com/products/systems+and+platforms/embedded+box+pcs/concept+box.html>

###

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

Digital text (PDF) and image (JPG): <http://www.kontron.com/about-kontron/news-events/kontron+concept+box+embedded+box+pcs+in+different+sizes+and+flexible+configurations.3252.html>

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](mailto:sales@kontron.com)

#### Editor company contact EMEA:

Norbert Hauser  
Kontron AG  
Oskar-von-Miller-Strasse 1  
85386 Eching/Munich  
Germany  
Tel: +49 (8341) 803-0  
Fax: +49 (8341) 803-499  
[norbert.hauser@kontron.com](mailto:norbert.hauser@kontron.com)

#### Editor agency contact EMEA:

Michael Hennen  
SAMS Network  
Zeichenstraße 29  
52146 Wuerselen  
Germany  
Tel: +49 (2405) 45267-20  
Fax: +49 (2405) 45267-21  
[michael.hennen@sams-network.com](mailto:michael.hennen@sams-network.com)

#### Reader contact Americas:

Kontron America Inc.  
14118 Stowe Dr  
Poway, CA 92064-7147  
United States of America  
Tel: +1 (888)-294-4558  
Fax: +1 (858) 677-0898  
[sales@us.kontron.com](mailto:sales@us.kontron.com)  
[www.kontron.com](http://www.kontron.com)

#### Editor company contact Americas:

Richard Pugnier  
Kontron America Inc.  
14118 Stowe Dr  
Poway, CA 92064-7147  
United States of America  
Tel:+1 (858) 623-3006  
Fax:+1 (858) 677-0615  
[richard.pugnier@us.kontron.com](mailto:richard.pugnier@us.kontron.com)

#### Editor agency contact Americas:

Annette Keller  
Keller Communications  
United States of America  
Tel:+1 (949) 640-4811  
[annetekeller@sbcglobal.net](mailto:annetekeller@sbcglobal.net)

All rights reserved.

Kontron is a trademark or registered trademark of Kontron AG.  
Intel, Intel Atom and Intel Core are trademarks of Intel Corporation in the US and other countries.

All other brand or product names are trademarks or registered trademarks or copyrights by their respective owners and are recognized.