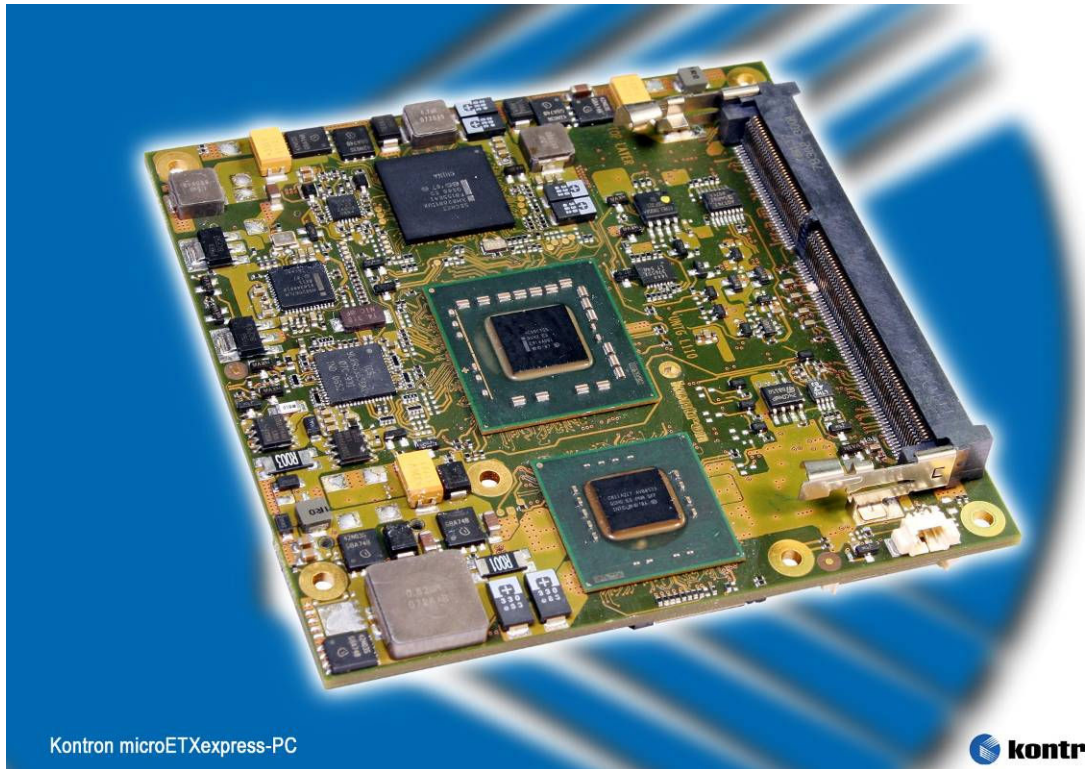


Kontron microETXexpress-PC: small form factor Computer-on-Module with 45nm Intel® Core™2 Duo processor

COM Express™ Type 2 connector offers highest security for small form factor designs



Eching, Germany, February 26, 2009 – The new Kontron microETXexpress-PC brings high-end 45nm Intel® Core™2 Duo processor performance with optimized power consumption and a full feature set to the smallest [COM Express™](#) Pinout Type 2 compatible Computer-on-Module.

According to VDC, small form factor Computer-on-Modules are becoming increasingly important and COM Express™ Type 2 is expected to gain a market share of 72 percent, making it the de facto standard within the COM Express™ specification. The Kontron microETXexpress-PC therefore offers the highest investment security for small factor designs.

The Kontron microETXexpress-PC Computer-on-Module is 100 percent compatible with the COM Express™ specification, following the Type 2 pin-out in terms of assignment and physical location. This enables developers to follow the secure development path of the established and future-proof PICMG® COM Express™ specification for quickly designing even smaller high-end solutions for a wide range of embedded applications requiring multi-core performance. These include, for example, 2-in-1 hybrid solutions for simultaneously running two operating systems, applications with

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sophisticated high-definition graphics such as digital signage and infotainment as well as numerous other data processing intensive applications in the medical, energy, transportation, telecommunication, automation, POS/POI or kiosk sectors.

The Kontron microETXexpress-PC is based on the high performance and low-power 45nm small form factor (SFF) Intel® Core™ 2 Duo processor up to 1.86 GHz and highly integrated Intel® mobile GS45 express chipset for SFF platforms. The compact Kontron microETXexpress-PC packs up to 4 GB of DDR3 SO-DIMM with a FSB of up to 1066 MHz and 6MB of L2 cache on a compact [Computer-on-Module](#) form factor that measures just 95mm x 95mm. Applications that are extremely power sensitive are well served by the Kontron microETXexpress-PC with 1.2GHz Intel® Celeron® processor M 722 that offers an optimal performance-per-watt ratio for fanless designs.

All applications will benefit from the extremely rich feature set of the compact Kontron microETXexpress-PC Computer-on-Module that includes state-of-the-art system security via the Intel® Trusted Execution Technology and an integrated trusted platform module – TPM 1.2 – for software and data protection. For graphics and video oriented applications, the Kontron microETXexpress-PC features the Intel® graphics media accelerator (GMA X4500) and doubles the graphics performance compared to previous Intel® based Computer-on-Modules. With DirectX® 10, PS 4.0 and DVMT 5.0 it supports the latest APIs for demanding 2D and 3D applications. Dual independent displays with resolutions up to 1080p/i are supported as is 18/24 bit LVDS single or dual-channel graphic performance with 256MB of graphic memory, an integrated MPEG2 decoder and H.264. It also supports the latest graphics interfaces such as HDMI and DisplayPort. With the integrated HDCP 1.2 and Intel® High Definition Audio even HDMI compliant applications can be easily implemented. If even greater graphics performance is required, the PEG pinout can be used with application-specific expansion cards. The Kontron microETXexpress-PC also offers extensive I/O flexibility with 5x PCI Express® x1, 3x SerialATA, 1x PATA and 8x USB 2.0 ports along with Gigabit Ethernet. The bootable PATA enables easy integration of flash storage for operating systems. Like other Kontron Computer-on-Modules, the Kontron microETXexpress-PC complies with the COM Express™ Extension and therefore supports a wide range power supply from 8.5 V to 18 V.

The compact Kontron microETXexpress-PC Computer-on-Module is available in May 2009 and supports Linux and VxWORKS as well as Windows Vista®, Windows® XP, XP embedded and CE. The new Kontron microETXexpress-PC will be on show at Embedded World in Nuremberg, Germany, Booth 404, Hall 12.

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Permanent Online Links:

Kontron MicroETXexpress-PC:

<http://www.kontron.com/products/computeronmodules/com+express/microetxexpress/microetxexpresspc.html>

microETXexpress product family:

<http://www.kontron.com/products/computeronmodules/com+express/microetxexpress/>

microETXexpress Whitepaper:

<http://www.kontron.com/etc/scripts/download/getdownload.php?downloadId=OTAzNA==>

COM Express™ Computer-on-Modules:

<http://www.kontron.com/products/computeronmodules/com+express/>

Other Computer-on-Module from factors:

<http://www.kontron.com/products/computeronmodules/>

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About Kontron

Kontron designs and manufactures standard-based, rugged COTS and custom embedded as well as 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 & mezzanines, Computer-on-Modules, HMIs & displays, systems & platforms, and rugged & custom capabilities. Kontron is a Premier member of the Intel® Embedded and Communications 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>.

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 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

Editor agency contact EMEA:

Michael Hennen
SAMS Network
Zechenstraße 29
52146 Wuerselen
Germany
Tel: +49 (2405) 45267-20
Fax: +49 (2405) 45267-21
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
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

Editor agency contact Americas:

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

4 of 4

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