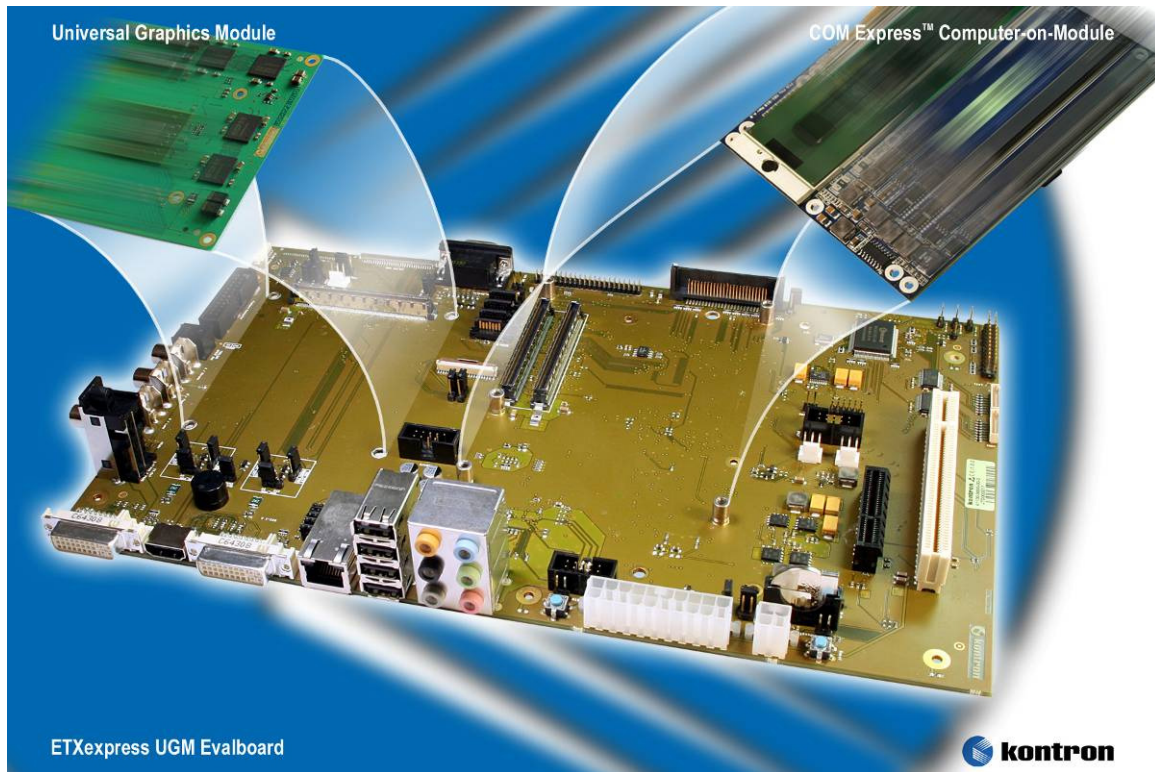


## Kontron evaluation board for COM Express™ and UGM modules

*Finding the optimal configuration for graphic and processor performance*



**Eching, Germany, April 02, 2008** – Kontron has developed the ETXexpress UGM Evalboard for evaluating the optimal embedded system configuration of CPUs and GPUs. It can be paired with high-end PEG Universal Graphic Modules (UGM) and COM Express™ conforming ETXexpress computer-on-modules as needed and aids in fast application validation.

As a universally applicable development platform for scalable graphic and process modules, the Kontron ETXexpress UGM Evalboard supports fast software validation. It meets the design guidelines of the COM Express™ Extension and the UGM Standard 1.0. This significantly accelerates application testing and reduces time-to-market. OEM customers benefit from long-term availability, robust construction and a function-tested, future-proof design. The key industries that demand high-end embedded modular graphics are: medical and industrial imaging, gaming and entertainment machines, POS/POI terminals, commercial outdoor broadcasting, public facilities and high-end residential gateways.

The Kontron ETXexpress UGM Evalboard is designed for use with all available UGM and COM Express™ modules and offers the complete feature list of both specifications: for the Universal Graphics Module connected via PEG (PCIe x16) there is an onboard HDMI output, two DVI-I (analog

**2 of 3**  
**Kontron evaluation board**  
**for COM Express™ and UGM modules**

+ digital) outputs, two LVDS interfaces with JLI30 and an additional LVDS interface via pin header as well as outputs for analog video (576 i) via S-video and component output (YPbPr). For initial installation, trouble-shooting, or parallel operation, the COM video signals are transmitted via dedicated VGA and LVDS interfaces.

The Kontron ETXexpress UGM Evalboard also offers the interfaces defined by the COM Express™ COM.0 Standard that include: 1x PCI express x1 slot, 1x ExpressCard54 slot on the backside (optional), 32 bit PCI, 6 x USB 2.0 (four on the front and 2 on pin header) and 1x Gigabit Ethernet. Storage media can connect to ETXexpress computer-on-modules via four SerialATA interfaces, a CF card slot and a 44-pin IDE interface. The Kontron ETXexpress UGM Evalboard board also provides S3 cold support for PC sleep modes. Digital sound on an optical SPDIF connector and pin header as well as HD audio with AC97 sound complete the feature set.

Since the UGM card is inserted parallel to the baseboard, the height of the Kontron ETXexpress UGM Evalboard is only 1U (approx. 38 mm) including high-end graphics and computer-on-module. With a footprint of just 330 mm x 190 mm, the ETXexpress UGM Evalboard can be easily integrated into embedded applications. OEMs also benefit from the optional expanded range of input voltages of the ATX power supply (8.5 to 18 volt) that makes integration into different applications even easier.

The Kontron ETXexpress UGM Evalboard offers module and software support for Windows XP, 2000, XPe, CE and Linux.

Further product information is available at: <http://www.kontron.com/UGM-Evalboard/>

###

**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): <http://www.kontron.com/pr/COM-Express-ETXexpress-UGM-Evalboard-080402ENG.pdf>  
Digital image (jpg): <http://www.kontron.com/pr/COM-Express-ETXexpress-UGM-Evalboard-080402.jpg>

**Kontron evaluation board  
for COM Express™ and UGM modules**

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)

**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 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](mailto:michael.hennen@sams-network.com)

**Editor 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)

All rights reserved.

DIMM-PC®, PISA®, ETX®, ETXexpress®, X-board®, DIMM-IO® and DIMM-BUS® are trademarks or registered trademarks of Kontron Embedded Modules GmbH. Kontron is a 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.

All data is for information purposes only and not guaranteed for legal purposes. Subject to change without notice. Information in this press release has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies.