

» For Immediate Release «

Kontron KISS 2U industrial server with 4 fast PCI Express x4/x16 expansion slots

Highly-integrated industrial servers for complex
visualization and image processing tasks



Eching, Germany, February, 04 2010 – Thanks to the new PCI Express Butterfly Backplane, the long-term available [Kontron Industrial Silent Server \(KISS\) 2U](#) may be flexibly and cost-efficiently equipped with up to 4 PCI Express x4 cards and one PCI Express x16 (PEG) card. Based on a [PICMG® 1.3 CPU board](#), the processor performance is also flexibly scalable at any time.

The highly integrated and thus space-saving 2U industrial server is especially suited for complex visualization and image processing tasks that require the independent operation of up to 8 high-definition monitors or the integration of 4 PCI Express x4 frame grabber cards for machine vision or video surveillance.

The high-performance industry server is designed particularly for applications in control rooms and operation centers of [energy suppliers](#), [rail companies](#), or [airports](#). Additional applications are found in [infotainment and digital signage](#) on trains and airplanes as well as in the [gaming industry](#) as a central computer for multiple gaming machines. The high bandwidth of up to 8 GB/s also enables graphic-intensive simulations for weather forecasting, digital mock-ups, or virtual reality for operator training.

By integrating CUDA (Compute Unified Device Architecture)-compliant graphics cards, the Kontron KISS 2U PCIe can act as a compact supercomputer (with around 500 gigaflops), greatly accelerating complex image processing operations through parallel processing. Customers benefit in any case

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with high-performance graphics and image processing on a single consolidated industrial server in space-saving 2U format.

The Kontron KISS-2U industrial server with compact PICMG[®] 1.3 system host boards (SHB) packs scalable processor performance up to an Intel[®] Core™ 2 Quad processor and up to 8 gigabytes of DDR2 dual-channel RAM. Equipped with the [Kontron PCI-760](#), the long-term available 2U industrial servers offer up to 3x Gb Ethernet, 8x USB 2.0, 2 x RS232C, and HD audio. The integrated Intel[®] GMA 3100 Graphics Media Accelerator provides resolutions up to QXGA (2048 x 1536) at 75 Hz via VGA.

For highest data throughput, an integrated RAID (RAID 0/1/5/10) controller for SATA drives can improve speed and/or data safety. Application-specific extensions are adaptable via a Type IIA miniPCI connector. Specific Kontron extensions are available for LAN, WLAN, and SCSI.

With an MTBF of 50,000 hours (approx. 5.7 years of continuous operation), the extremely robust and shock-resistant systems ensure the highest availability and lowest maintenance costs. This is also thanks to the integrated Intel[®] Active Management Technology (Intel[®] AMT) 3.0, which allows for the remote management of the server. Designed for continuous operation, the KISS systems are CE certified and UL suitable.

The highly integrated Kontron KISS 2U PCIe supports Linux and the complete Windows desktop and server range including the new Windows 7. It is available direct from the warehouse as a standard configurable system, or it can be further customized as needed and delivered as a tested and independently-certified solution. The new Kontron KISS 2U PCIe is available in EMEA now and will be available in North America and APAC at the end of Q1.

For more information on the Kontron KISS 2U with PCI Express Butterfly Backplane, please visit:

<http://www.kontron.com/products/systems+and+platforms/industrial+pc++rackmount/2u/kiss+2u+pci960.html> or

<http://www.kontron.com/products/systems+and+platforms/industrial+pc++rackmount/2u/kiss+2u+pci760.html>

For more information on Kontron KISS industrial servers, please visit: <http://www.kontron.com/KISS>

For more information on Kontron PICMG 1.3 system host boards, please visit:

<http://www.kontron.com/products/boards+and+mezzanines/slot+cpu++backplane/full+size+picmg+13/>

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Kontron designs and manufactures embedded and communications standards-based, rugged COTS and custom 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, HMI's & displays, systems & platforms, and rugged & custom capabilities. Kontron is a Premier member of the Intel® Embedded 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>

Digital image (jpg) and text (PDF): <http://www.kontron.com/about-kontron/news-events/kontron+kiss+2u+industrial+server+with+4+fast+pci+express+x4x16+expansion+slots.3789.html>

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