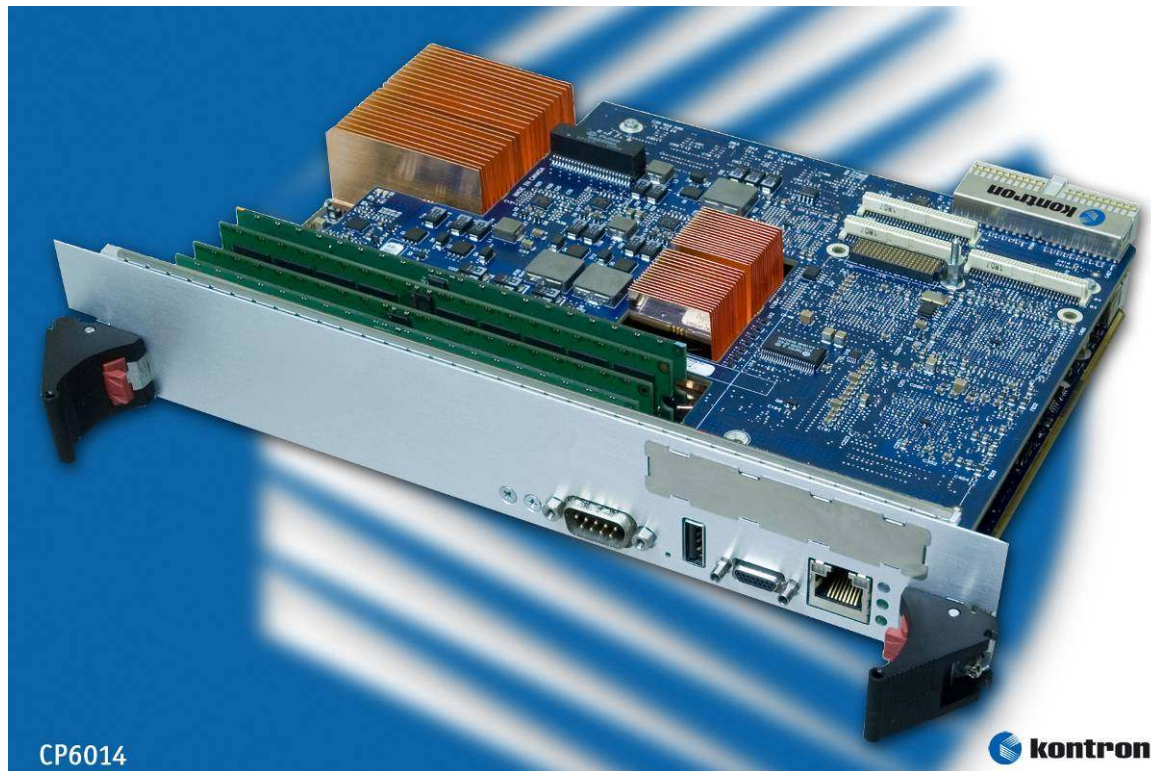**kontron**

Kontron premieres CompactPCI board based on dual 45nm quad-core Intel® Xeon® processors

New Kontron 6U CompactPCI board to breath new life into existing customer system designs

CP6014

Eching/Nuremberg, Germany, February 26, 2008 – Kontron proudly debuted today at Embedded World (Hall 12 / Booth 404) the Kontron CP6014, a 6U CompactPCI processor board featuring two 45 nanometer quad-core Intel Xeon L5408 processors complemented by the power-optimized Intel 5100 Memory Controller Hub (MCH) chipset & Intel I/O Controller Hub 9R. The significance of eight processor cores on one board now opens up market opportunities that never before existed and, likewise, gives new and existing CompactPCI customers tremendous system upgrade opportunities.

The Kontron CP6014 CompactPCI processor board targets storage, wireless infrastructure, security, voice and the medical market segments. Taken in conjunction with the advantages of Virtualization software, the Kontron CP6014 can now address new data-intensive applications such as video recognition and medical imaging.

"Envision now a video recognition application with equipment that can reduce the processing time by a factor of 10. That's efficient performance," says Benoit Robert, Executive Director, product management, at Kontron. "Four years ago, the industry was at the limit of the CompactPCI 2.16

- more -

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standard. But now with the dense design of the energy efficient 45nm Intel processors, the Kontron CP6014 truly unlocks new potential applications that existing technologies have not been able to address until today."

"The ultra-dense, quad-core Intel Xeon processor L5408 and the Intel 5100 MCH chipset provide an ideal platform to create higher performance, lower power embedded systems in a smaller form factor," says Joe Jensen, general manager, Embedded Computing Division, Intel. "Developers can now use CompactPCI processor boards, such as the Kontron CP6014, for new processing demanding applications such as video recognition, data communications and many others."

The impact for longstanding Kontron clients – who have for years deployed CompactPCI systems for various applications – is highly significant with the new prospect to upgrade and extend the life of deployed systems, as well as explore and diversify into new markets. As an example, a CompactPCI 2.16 platform with 10 CPCI single core, single-slot boards could possibly be reduced – depending on the application – to one, dual-slot quad-core board. Conversely, clients may configure a super computer with up to 7 quad-core processor boards for extremely data hungry applications.

The benefits of Intel quad-core processors and 45nm technology
The quad-core Intel Xeon processor L5408 interfaces to the baseboard via the 771 land socket and is based on 45nm technology, which reduces power consumption, increases switching speed, and significantly increases transistor density over the previous 65nm technology. The L5408 has a power envelope of 40W and supports a core frequency of 2.13GHz, a Front Side Bus of 1066MHz, and an on-die L2 cache of 12 MB (2x6 MB).

Kontron CP6014 Overview – multi-tiered and versatile board design
The Kontron CP6014 is an 8HP dual-slot solution designed with a multitude of onboard IO functionality. To eliminate the bottleneck of a parallel bus structure, the Kontron CP6014 supports a local PCI-X 64-bit / 133MHz on PMC-slot or a PCIExpress X4 on the XMC. For faster memory performance, Kontron's 6U CompactPCI board supports up to 32GB DDR2 memory (4 DIMMs sockets) at 533/667MHz and Intel I/O Acceleration Technology (Intel I/OAT) DMA for fast data transfer. There is additionally a VGA interface and a VGA controller on a PCI-E bus ATI M72 that supports CRT.

For clients to accomplish more without a comparable increase in power consumption, the Kontron CP6014 takes full advantage of the Intel 5100 MCH chipset which contains two main components: the Memory Controller Hub (MCH) for the host bridge and the Intel 82801IR I/O Controller (ICH9R) for the I/O subsystem. Subsequently, the CP6014 uses onboard Flash, provides six SATA/SAS ports onboard (mezzanine and rear I/O), two COMs RS232 (one front and one rear I/O), three USB 2.0

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ports (one front and two rear I/O), dual 1MB BIOS Flash (FWH), and support for IPMI V1.5

implementation.

Product Pricing and Availability

Kontron CP6014 CPCI Processor Board – RoHS compliant

Pricing: OEM pricing upon request

Availability: Q2, 08.

For more information, please visit http://www.kontron.com/CP6014

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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, HMIs, 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/CPCI-Processor-Board-Quad-Core-CP6014-ENG080226.pdf
Digital image (jpg):   http://www.kontron.com/pr/CPCI-Processor-Board-Quad-Core-CP6014-080226.jpg

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