

Kontron and LynuxWorks™ release Intel® COTS safety-critical platform

SAN JOSÉ, Calif., December 8, 2008 — Kontron and LynuxWorks™ today released an Intel® based COTS platform for safety-critical, deterministic real-time embedded applications, using the [Kontron PENTXM2](#) single-board computer running the LynxOS-178 RTOS.

"By porting the world's only RTOS certified as a Reusable Software Component (RSC) by the Federal Aviation Administration onto a server-class single-board computer, LynuxWorks and Kontron have created the perfect solution for the new wave of dedicated safety-critical applications built in the Intel® environment," commented Richard Pugnier, marketing communications director at Kontron. "A growing number of such systems are seeking to exploit the immense base of development expertise and code available in the x86 domain. This solution allows avionics, vehicle electronics and other safety-critical applications to adopt this path whilst reducing development time, cost and risk."

"Leveraging the development effort targeting a large European global positioning system program, our LynxOS-178 is now ready for deployments in harsh environmental conditions on the Kontron PENTXM2 rugged conduction-cooled SBC. With that, our customers benefit from an instant boost in their schedule and not only can go to market aggressively with an outstanding head start, but can also create a complete range of new opportunities," added Joe Wlad, director of certification, marketing and services at LynuxWorks.

The Kontron PENTXM2 uses the 1.67 GHz dual-core Xeon, Intel's advanced low-power x86 technology, combined with the Intel® E7520 server-class memory controller hub (MCH). The PENTXM2 is available with up to 4GB of DDR2-400 SDRAM. When paired with the support of VITA 31.1 backplane networking, the PENTXM2's VITA 38 intelligent platform management interface (IPMI) feature provides for easy scaling into a multiprocessing system. The PENTXM2 provides a dual SATA-150, a triple USB 2.0 port and an EIDE interface for an onboard disk or compact-flash support.

LynuxWorks LynxOS-178 RTOS is the only hard real-time RTCA/DO-178B level A operating system to offer the interoperability benefits of POSIX® with support for the ARINC 653 APplication EXecutive (APEX) on a x86 platform. It has LynxOS, a mature UNIX®-style operating system (born in 1988) that was designed from the ground up for hard real-time determinism at its core.

More information about the Kontron PENTXM2:

<http://www.kontron.com/products/boards+and+mezzanines/6u+vme/processor/6u+x86/pentxm2.html>

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About LynuxWorks

LynuxWorks, a world leader in the embedded software market, is committed to providing open and reliable real-time operating systems (RTOS) and software tools to embedded developers. The company's LynxOS family of operating systems offers open standards with the highest level of safety and security features, enabling many mission-critical systems in defense, avionics and other industries. Additionally, LynuxWorks' BlueCat Linux provides the features and support of embedded Linux for companies wanting to use open-source technology for their embedded applications. The Eclipse-based Luminosity IDE gives a powerful and consistent development system across all LynuxWorks operating systems. Since it was established in 1988, LynuxWorks has created technology that has been successfully deployed in thousands of designs and millions of products made by leading communications, avionics, aerospace/defense, and consumer electronics companies. LynuxWorks' headquarters are located in San José, CA.

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.

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