

» For Immediate Release «

Kontron introduces Machine-to-Machine Smart Services Developer Kit with a deployable Intel® Atom™ processor-based services-ready System

This advanced 'plug & play' M2M solution simplifies and speeds entry into rapidly expanding smart services market



Eching, Germany, June 14, 2011 — Kontron today introduced its new machine-to-machine ([M2M Smart Services Developer Kit](#)) with a deployable Intel® Atom™ processor-based services-ready system. Developed in collaboration with Intel Corporation, the standards-based Computer-on-Module (COMs)-based kit is a powerful development and deployment solution that provides simple 'plug & play' capability enabling designers to develop and test their application's connectivity and performance, then quickly deploy. The Kontron M2M Smart Services Developer Kit is designed to meet customer needs for accelerated [M2M connected-computing](#) launch schedules of smart services that utilize cloud-based computing to communicate and aggregate data on edge node and gateway devices. The kit uses the COM Express® compatible Kontron Computer-on-Module nanoETXexpress-TT powered by the Intel® Atom™ processor and includes a M2M System Carrier Board and an AV board to support headed configuration use. The Kontron M2M Smart Services Developer Kit is 802.11a/b/g/n WLAN (wireless local area network) and 802.15.4 WPAN (wireless personal area network) capable allowing rapid development of wireless connectivity solutions. 3G WWAN (wireless wide area network) is either pre-installed or easily enabled by dropping in a pre-certified PCI Express 3G/4G module for further broadband connectivity flexibility. Kontron's COM-based modular architectural approach gives OEMs, smart services developers, and independent software vendors

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(ISVs) multiple benefits including reduced development cost, risk and time-to-market in an optimal, proven production-ready COTS small factor platform that includes mounting hardware for ease of deployment. The M2M solution and kit packaging may be easily customized to include the network operator's, OEM's, or ISV's brand.

Industry analysts have forecasted that over the next decade billions of devices will be deployed as edge node and gateway devices collecting and sending data. This will be a cross-industry phenomenon that has the potential to be a game-changing disruptive force pushing the need for connectivity, high-performance, and standards-based solutions into a myriad of new and existing device platforms that will drive the creation of new smart services. M2M smart services will be deployed in a wide variety of markets including building automation, [energy](#), [healthcare](#), IT/networking, retail, security and [transportation](#), among others.

“Designed as a production-ready solution that helps to accelerate smart services deployment opportunities, Kontron is simplifying M2M application development by providing connected computing M2M intelligent devices based on Intel® architecture, as well as the infrastructure building blocks to enable M2M technology data from the point of collection through the cloud to the point of aggregation and decision,” said Dirk Finstel, CTO of Kontron. “The Kontron M2M Smart Services Developer Kit works out-of-the-box, and its extensive capabilities allow the developer to test the smart services application in a connected environment that will be similar to an actual deployment.”

The Kontron M2M Smart Services Developer Kit generates a compelling out-of-box experience, which can be used in multiple ways to generate, aggregate and transmit machine-to-machine data to the cloud. The Kontron M2M System is preloaded with a 90-day free trial of Wind River Linux 4.1. The kit also includes a Wind River LiveUSB drive that provides the software stacks and drivers to support immediate wireless connectivity testing. The pre-flashed drive containing Wind River software is optimized for developing, running, debugging and prototyping embedded software directly onto the Kontron M2M System using Wind River development tools.

“Machine-to-Machine is all about seamlessly integrating compute and connectivity in ‘small smart platforms’ with the focus on simplifying the development process by relieving designers from having to master the complexities of wireless connected computing technologies. Intel is excited about the possibilities of next generation machine-to-machine smart services developed and deployed with solutions such as the Kontron M2M Smart Services Developer Kit that is production-ready for high volume M2M deployments,” said Kevin D Johnson, director of Embedded Connected Devices for Intel's Embedded and Communications Group. “Based on the Intel® Atom™ processor, the new kit and product line gives designers a small, power efficient, high-performance production-ready solution that is supported by a robust ecosystem of hardware and software providers.”

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“The M2M ecosystem is rapidly expanding and Wind River has world-class software and middleware solutions that support the enablement of M2M services,” said Jens Wiegand, vice president and general manager of industrial, medical and M2M at Wind River. “By tightly integrating and optimizing Wind River’s suite of software tools with Kontron’s M2M system, the Kontron M2M Smart Services Developer Kit can dramatically reduce complexity and help customers get products to market faster.”

The features in detail

The new Kontron M2M Developer Kit consists of a COM Express® compatible Kontron [nanoETXexpress-TT](#) COM using the Intel® Atom™ processor E640 1 GHz and other Kontron M2M System boards housed in a small, 67mm x 100mm x 27mm chassis. The external USB port simplifies use of M2M SDKs provided by M2M ISVs. Sufficient storage is provided for M2M smart service applications, middleware and OS on the 4 gigabyte (GB) internal MicroSD card. The Kontron M2M System’s built-in accelerometer, dual HDMI and HD audio support enables designers to implement both movement tracking and intensive audio/video smart services features. Kontron’s M2M Developer Kit supports 300 Mbps Wi-Fi throughput with 802.11 b/g/n at 2.4 GHz band and 5 GHz band for 802.11a. An integrated 802.15.4 WPAN transceiver flexibly supports a wide range of protocols and network topologies, such as 6LoPAN, Wireless HART, ZigBee® and others, using a unique 802.15.4 MAC layer interface. The Kontron M2M System also includes driver support for a pre-certified Ericsson 5521gw module and an option of having that module pre-installed. Other pre-certified 3G/4G modules and drivers may be added to the Kontron M2M System for additional connectivity development.

With the introduction of higher wireless bandwidths and the advent of 4G LTE-based wireless networks, carriers worldwide see significant potential for M2M enterprise and consumer applications and services. With respect to their wireless and telco cloud computing network infrastructures, Kontron is already well positioned with telecom and network equipment vendors in supplying the market with standardized COTS open communication platforms (OCP). This portfolio includes carrier-grade, high-density 10G and 40G [AdvancedTCA®](#) and [MicroTCA™](#) platforms and component hardware, as well as, carrier grade and mission-critical [rackmount servers](#).

The Kontron M2M Developer Kit will be available worldwide in early Q3.

For more information on the Kontron M2M Developer Kit, please visit:

<http://www.kontron.com/M2Mkit>

For more information on the Kontron and M2M, please visit:

<http://www.kontron.com/M2M>

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About Kontron

Kontron is a global leader in embedded computing technology. With more than 30% of its employees in Research and Development, Kontron creates many of the standards that drive the world's embedded computing platforms. Kontron's product longevity, local engineering and support, and value-added services, helps create a sustainable and viable embedded solution for OEMs and system integrators. Kontron works closely with its customers on their embedded application-ready platforms and custom solutions, enabling them to focus on their core competencies. The result is an accelerated time-to-market, reduced total-cost-of-ownership and an improved overall application with leading-edge, highly-reliable embedded technology.

Kontron is listed on the German TecDAX stock exchange under the symbol "KBC". For more information, please visit:

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

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