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M2M Solution's Homebox security gateway allows users to view real-time video, monitor security/safety sensors and take appropriate action

VALBONNE, France, Jan. 13 /PRNewswire/ -- Security gateways, an entirely new class of security systems from the telematics system integrator M2M Solution (M2M), allow end users to view real-time video of homes or commercial facilities on a mobile phone or PC, giving them full monitoring control and eliminating the need for expensive surveillance services. These breakthrough devices can read data from motion or smoke detectors, scan the status of doors and windows and interact with individuals inside the monitored area to determine if they are intruders. All this is possible with the compact Homebox unit powered by the OMAP3503 processor and development infrastructure including evaluation boards, software and services from Texas Instruments Incorporated (TI), which allowed M2M to design the system in only nine months. M2M serves as a business-to-business supplier and develops complete security concepts, from hardware to ongoing services, for major companies in the telecom, insurance and industrial security fields. For more information, visit www.m2msolution.com.

"TI provided a complete system level solution with the OMAP(TM) 3 applications processor, RF transceivers, audio codecs and power-management devices," explains Arnaud Duclap, chief operating officer, M2M Solution. "Additionally, the TI development tools and Linux board-support package allowed us to save time and money using open source codecs for MPEG-4 and H.263, so we were able to modify our base concept to meet unique customer requirements."

TI's OMAP3503 processor with its 600 MHz ARM(R) Cortex(TM)-A8 core provides all the computational power and I/O needed to run this unobtrusive appliance, which measures just 14 x 14 x 8 cm. The unit features a built-in 5MP camera that works in low light with a 140-degree angle that also accepts signals from WiFi cameras. The processor then transcodes camera data so users can watch real-time images optimized for their mobile phones or PCs.

Other integrated I/O includes Ethernet for a hardwired link to a broadband router, GSM for homes or facilities not equipped with a broadband connection or as a backup to a wired connection, WiFi for external cameras and broadband routers, plus an 868 MHz RF link to various security/safety sensors and even external sirens. Future features will take advantage of the Homebox's Bluetooth and Zigbee ports.

With OMAP 3 technology implementing all these interfaces, the Homebox will typically only need one cable connection - power. Because of the low power consumption of the OMAP 3 processor, less than 1W in this case, all functions are housed in a plastic enclosure that operates silently without any fans or even heat sinks. This low power consumption is also important if an intruder cuts off the power supply. In this situation, a backup battery runs the Homebox for four hours so it can send an intrusion alert, either with an e-mail message, text message, MMS or voice recorded call, and then respond to the owner's instructions. In addition, recordings of audio/video data are sent to the service provider's server bank so they cannot be permanently destroyed by an intruder.

The Homebox is already adopted by several customers, such as MYXYTY, who is introducing a home security gateway system for the consumer market. Leveraging the Homebox technology and performance of the OMAP35x processor, MYXYTY's new system will have security portals to monitor vehicles, children, seniors and even pets wearing special collars.

"M2M has done a great job adapting our technology so they can break cost barriers and create a first-of-its-kind home security gateway that is exceptionally powerful, yet one that almost anyone can afford," comments Elizabete de Freitas, DSP Catalog business development manager, TI. "The high level of integration in the OMAP 3 processor results in a lower total bill of materials for the Homebox and M2M can quickly upgrade to more powerful OMAP 3 processors to add new features and tune systems to match the particular requirements of every customer."

Find out more about M2M Solution, MYXYTY, and TI by visiting the links below:

-- M2M Solution: www.m2msolution.com -- MYXYTY: www.MYXYTY.com -- TI OMAP35x application

processors: <http://www.ti.com/omap35x> -- TI 2.4-GHz IEEE 802.15.4 / ZigBee SoC: www.ti.com/cc2430 -- TI low-power sub-1 GHz RF transceiver: <http://focus.ti.com/docs/prod/folders/print/cc1101.html> -- TI low-power stereo codecs: www.ti.com/tlv320aic3107 and www.ti.com/tlv320aic3254 -- TI power-management devices: <http://www.ti.com/power>

About Texas Instruments

Texas Instruments helps customers solve problems and develop new electronics that make the world smarter, healthier, safer, greener and more fun. A global semiconductor company, TI innovates through manufacturing, design and sales operations in more than 25 countries. For more information, go to www.ti.com.

About M2M Solution

M2M Solution (www.m2msolution.com) is a leading provider of Machine to machine solutions tackling issues such as remote and real-time security, management and comfort over assets (mobile or fixed), people and animals. M2M Solution is acting as a telematics integrator mixing telecommunications, satellite positioning, server technologies, electronics, services, PC and Mobile phone applications ready to enhance Human-to-Machine and Machine-to-Machine interactivity. M2M Solution provides to key players (OEM, Service Providers, Software companies ...) from various industries (Automotive, Marine, Home and Premises, Vending Machine, ...) the opportunity to deploy rapidly a ground-breaking (real-time interactivity), full-blown (communicating device + web/mobile applications + services) and customized (needs and constraints) machine-to-machine offer. M2M Solution is registered as official Texas Instruments Third Party Partner. M2M Solution is headquartered in Valbonne Sophia Antipolis, France

About MYXYTY

MYXYTY (www.MYXYTY.com) is a leading provider of security solutions for goods, people and pets. MYXYTY provide a set of innovative security offers focusing on the ease of use and fair pricing. MYXYTY is the first European Security portal of its kind. MYXYTY is headquartered in Valbonne Sophia Antipolis, France

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Web site: <http://www.m2msolution.com>/<http://www.MYXYTY.com>/<http://www.ti.com/>

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