

embedded world 2010 Show Report

Show Report - Live News - Product Highlights



Welcome to our embedded world 2010 Show Report.

embedded world, the biggest event of its kind, sets records every year – even in 2010, despite the difficult economic conditions. The number of visitors this year was up 16% over last year to 18.350. There were 730 exhibitors (+4% from 2009) and the number of international exhibitors was even up by 17%. A sign that embedded world has become a pan-european event. The embedded world Conference and the electronic displays Conference had +7% more attendants than last year.



embedded world was again very well attended

Live News

embedded world 2010

embedded world show report



[Join the conversation](#)

Product Highlights

Here are some of the new products and solutions that were introduced at embedded world 2010.

Actel Corporation unveiled what it calls SmartFusion, claimed as the world's first intelligent mixed-signal FPGA. These devices feature FPGA fabric, a complete microcontroller subsystem built around a hard ARM Cortex-M3 processor and programmable analogue blocks on a Flash process. The technology permits the building of highly-agile SmartGrid sensors with greater flexibility in a smaller package, and the optimisation of hardware/software tradeoffs on the fly without board-level changes. All the data can be transferred from the processor to the FPGA or from the analogue section to the processor, or between the FPGA and the analogue section without going off-chip.

www.actel.com

New functionalities for the proven AR54 long-range wireless module was the highlight on the stand of **Adeunis RF**. Available in the 869MHz or 902/928MHz in FHSS (Frequency Hopping Spread Spectrum) bands, these pre-certified module-modems can be qualified in compliance with the RTTE European Directive EN 300-220 / EN 300-489 and the American FCC Part 15.247 standard. They offer a complete radio solution with integrated digital radio transceiver, microcontroller and dedicated firmware. Data transmission is performed via a UART serial interface. With a range of up to 6km the AR54 is designed for long-distance communication in control and telemetry applications.



Adeunis Sales Director Vincent Bulot with the company's 6km range radio modem

www.adeunis-rf.com

Altera presented the industry's first TÜVqualified Industrial Safety Data Package for automation applications. Working in conjunction with German safety certification body TÜV Rheinland, the company has created a prequalified development tool chain including safety manuals and safety IP cores. The ability of FPGAs to integration DSP, microprocessor and ASSP functionality will shorten development time and lower total system cost in safety-critical industrial applications such as servo and inverter drives, safety devices and automation controllers. Included IP ensures system integrity in accordance with IEC 61508 (European Machinery Directive).

www.altera.com

Atmel Corporation announced a Floating Point Unit for its 32-bit AVR UC3 product family. This extra block will enable designers to replace a two-chip microcontroller and digital signal processing (DSP) solution with just one MCU for applications in the automotive and industrial control markets. A feature of the new microcontrollers is the architecture's high digital signal processing performance: it provides fixed point and integer arithmetic support. The addition of a single precision FPU can reduce chip count to one.

www.atmel.com

Bluegiga showed the new WT41 long range Bluetooth module, which can achieve 1000 meters distance in optimal conditions and several hundreds of meters in typical environments. The Bluegiga WT41 provides +20 dBm output power which is the maximum allowed in Americas, Europe and various Asian countries. In addition to an RF power amplifier, WT41 also implements a low noise amplifier significantly improving the module sensitivity down to -90 dBm. The sensitivity improvement extends the WT41's range to Bluetooth class 2 devices. WT41 module is available with integrated chip antenna or U.FL antenna connector. It is targeted for numerous application areas requiring the best possible performance and reliability for Bluetooth wireless data connections. With WT41 module, the OEMs can avoid the sudden "no coverage" situations as the link remains up even in most demanding conditions.



Bluegiga Technologies long range Bluetooth module WT41

www.bluegiga.com

Celebrating its tenth anniversary this year **connectBlue** launches ten Wireless LAN Development Kits designed to evaluate the company's third generation Wireless LAN modules OWL221a and OWL222a. The kits offer complete system functionality with an out-of-the-box testing capability designed to accelerate the customers' product design, development and delivery. The Development Kit collection spans over a wide variety of customer development needs. The modules included in the complete kits are compliant with IEEE 802.11a/b/g and single stream 802.11n, utilizes internal antenna or external antenna, 3.3 - 5.5 VDC, SPI or SDIO interface and are fully radio type approved (FCC, IC and R&TTE).



connectBlue's Sales Director Martin Engdahl at embedded world

www.connectblue.com

Deutschmann Automation now offers its Unigate IC gateway also in an EtherCat version, offering a complete Ethernet-Gateway in IC-design (DIL32). The device contains all necessary components, such as microcontrollers, Flash, RAM, bus-chip and of course the analog components, such as optocoupler and bus driver. Deutschmann also showed a new Developer kit containing a Developer board for Unigate IC, cables, power supply unit and the necessary software tools.



New Deutschmann developer board for Unigate IC

www.deutschmann.de

Digi International introduced what the company calls the "first foolproof programmable ZigBee module". With the XBee-PRO ZB customer applications can be programmed directly on the module, eliminating the need and cost of a separate processor and reducing time-to-market. Because the Digi-provided wireless software is isolated, customers can easily develop applications with no risk to RF performance and security. The module features an 8-bit Freescale SO8 microprocessor and offers an outdoor RF line-of-sight range of up to one mile. A product designed using the programmable XBee-PRO ZB can be updated remotely with new ZigBee profiles, feature updates or security enhancements.



XBee-PRO ZB enables application development without risk because the wireless software is isolated

www.digi.com