From: Embedded News
To: Manuel Svoboda
Subject: Embedded News & Know-how (Aug 25, 2010) - Chips, Tools, Boards
Date: Mittwoch, 25. August 2010 12:08:09

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Lastet Issue of Intel's Embedded Innovator

Amongst the highlights of the latest issue of Intel's Embedded Innovator are articles about rugged design, touch-screen automation and flexible fan-less modules.

Embedded Newsletter

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36 Intel XEON processor cores and 216 GB of RAM

The OM6090D and OM7090D are robust modular MicroTCA.1 conform systems for High-End Processors and Switches beyond 1Gbit/s and positions MicroTCA at 10 Gbits/s. They allow accommodating state-of-the-art multi-core CPUs such as the Intel Quad-Core XEON on Kontron's AM5030, as well as Kontron's 10Gbit switch AM4910. The system supports the 4U MicroTCA form factor (double-width AMCs) with 80 Watts per AMC.

CHIPS & COMPONENTS NEWS

- austriamicrosystems: 144-channel dot matrix LED driver
- ADI: quad switches offer guaranteed latch-up protection
- Display Solution: 19,2 inch TFT display operates from -30 to +80° C
- Maxim: system management microcontroller cuts power and cooling costs
- LTC: 500mA negative micropower LDO operates down to -55°C
- Freescale: new portfolio of PowerQUICC II Pro processors
- TI: cross-wire immunity transceiver for fail-safe installations
- Toshiba: IC-Coupler for extended temperature applications
- Intel and Micron: 3-bit-per-cell NAND flash memory on 25-nm technology

TOOLS & SOFTWARE NEWS

- RoweBots: tiny Linux compatible OS for SmartFusion devices
- IAR: Renesas RX family gains from software compatibility
- Sundance: multicore developer platforms features 12 DSP cores
- Actel: Windows 7 compliant LIBERO IDE
- Kithara's RealTime Suite supports Intel and Realtek

BOARDS & MODULES NEWS

- N.A.T.: AMC-CPU-board with PCIe, SRIO, GbE, USB, RS232 and ITDM
- VIA: Nano E-Series processor, dual Gigabit LAN Embedded system
- Mercury: Core i7-based OpenVPX solutions for ISR applications

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Triple-Redundant VMEbus SBC for Extremely Safety-Critical Applications

MEN's A602 is a 6U VMEbus SBC, developed for applications on a plane (DAL-A) or a train (SIL 4). The board provides triple redundancy of the PowerPC processor and the memory with all I/O based on redundant FPGA architecture. It can be equipped with (AFDX) PMC modules and provides a RS232 interface.

- Connect Tech: PCI/104-Express CPU board incorporates Qseven modules
- Aaxeon: Linux-ready ARM9 computer
- Bluetechnix: SBC based on Freescale i.MX51 multimedia processor
- Mercury: protocol-agnostic, multi-fabric interconnect technology
- Avalue: gaming computer supports four independent displays
- Acrosser: PCI/104 solution bundled with free Linux package

KNOW-HOW (White Papers, Webinars & more)

Combining Boundary Scan and JTAG Emulation for advanced structural test and diagnostics
Boundary Scan and JTAG Emulation are two perfectly complementary methods, which are fused into one flexible and powerful technique for advanced structural tests by GOEPEL electronic's VarioTAP technology

Direct hardware access made easy with Secure & Unified Smart Interface
You are writing an application that requires direct hardware access? Unfortunately, that access is no longer available in modern operating systems. But the SUSI unified interface can help you.

Packaging of rugged commercial-off-the-shelf systems
Rugged COTS systems must be packaged to perform in conditions which may include challenges such as thermal extremes, vibration, shock, electromagnetic (EMI), nuclear/EMP and human source hazards including intrusion and compromise.

AdvancedTCA makes the most of multicore processors
Multicore processors fit nicely into the ATCA infrastructure. The redundant, high-speed ATCA backplane supports both communication and compute-intensive applications.

Safety: make software part of the solution
This paper describes three steps that control and process automation developers can take to achieve saftey compliance while cutting costs and complexity.

ARM-based industrial controllers – adaptable to customer specifications
Siemens EDM's (Electronic Design and Manufacturing) latest platform concept involves industrial controllers that can be adapted to customer specifications.

Don't crash at the finish line - how to overcome device complexity
Wind River, has developed a new type of device testing solution that provides unprecedented run-time visibility into the operation and quality of complex devices under test. The Wind River Test Management system delivers actionable intelligence that lets teams focus their efforts on what really needs testing.

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