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August Issue of Boards & Solutions / ECE Magazine

This is a combined issue of Boards & Solutions and ECE Magazine because for the major section – the Yellow Pages European Embedded Companies Directory - it makes a lot of sense to cover the full scope of the embedded market in a single compact reference publication.

[Download now](#) the digital version of August 2010 issue

Bluetechnix: SBC based on Freescale i.MX51 multimedia processor

Bluetechnix announces its new single-board computer, based on the multimedia processor i.MX51 from Freescale. The SBC-i.MX51 is characterized by its numerous multimedia functions (video en- / decoding in the formats MPEG-4, H.263 and H.264), its small size (120x120mm) and its low power consumption. The core of the SBC-i.MX51 is the i.MX51 multimedia processor from Freescale, which is especially developed for Netbook applications and is clocked at 800MHz.

The Single Board Computer integrates a 2GByte NAND Flash and a 512MByte DDR2 SDRAM. In fact of its numerous interfaces the Single-Board Computer is ideal equipped for industrial applications, automation- and control systems. The following interfaces are supported: 1-Wire, Audio, Camera, CVBS, Ethernet, HDMI, I2C, JTAG, Keypad, LCD, LEDs, PWM, SD-Card, SPI, 3xUART, 4xUSB and USB-OTG.



SPOTLIGHT

Lastet Issue of Intel's Embedded Innovator

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

Test automation framework - make or buy?

The main purpose of a test automation framework is to increase product development and product process efficiency. This paper reviews the advantages and disadvantages of making or buying a test automation framework.

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.

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.

WOLFGANG's VIEW - Reports from the European Embedded Market



Wolfgang Patelay, Editor Print & Online

August 16, 2010

If you look at the actual market data you'll realise that the pork cycle in the electronics industry still exists. According to DMASS (Distributors' and Manufacturers' Association of Semiconductor Specialists), looks 2010 like the all-time record year for European semiconductor distribution – only one year after a recession. EMEA semiconductor distribution grew by a historical 70% in Q2/2010. Record bookings and selective shortages continue. [\[read more...\]](#)

August 11, 2010

In a press briefing explained Eroll Dietz, Vice President High-Speed Product

Division of National Semiconductor the trends and market drivers for automotive infotainment and driver assistance and the product offering in this area. [\[read more...\]](#)

August 10, 2010

After the introduction of its energy efficient EFM32 Gecko microcontrollers in 2009 and the announcement of the low-cost EFM32 Tiny Gecko series in 1.Quarter 2010, Energy Micro's new Vice President Worldwide Sales and Marketing, Andreas Koller, announced details of the EFM32 Giant Gecko product line. [\[read more...\]](#)

July 7, 2010

If you watch TV and see accidentally an IBM advert you'll realise that Big Blue wants to create the world a smarter planet. At a press conference in Munich managers of IBM Rational Software explained how the embedded software tools fit into the business software and therefore in the overall strategy of Big Blue and how this integrated solution will help to build a smarter planet. [\[read more...\]](#)

VIRTUAL CONFERENCES

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- [Microcontrollers & Tools](#)
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- [FPGA-based Embedded Systems Design](#)
- [Industrial Computing & Communications](#)
- [Technical Trends with xTCA Technologies](#)
- [Small Form Factor Boards](#)



[Safety: make software part of the solution](#)

This paper describes three steps that control and process automation developers can take to achieve safety 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.

[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 (Secure & Unified Smart Interface) unified interface can help you.

[Embedded News & Know-how Newsletter](#) (August 25 2010)

Chips, Boards & Tools -- view the latest issue of our e-mail newsletter with Product News and Technical Know-how for Embedded Designers

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» I.T. 8/10
» 10 News
» Part 1/16



Embedded News Know-how

Dear Readers,

To be even more up-to-date, we have merged our two bi-weekly newsletters Embedded News and Embedded Know-how to a single newsletter, which is issued every Wednesday. The merged newsletter informs about new product announcements in the areas of Chips & Components, Tools & Software and Boards & Modules and includes a Know-how Section with Articles, White Papers, Webinars, etc.

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» Chips & Component News September 30, 2010 - presented by ICC Media

» Tools & Software News

» Boards & Modules News

» Know-how (White Papers, Webinars and more)

Sponsor Message

Simple MonoTCA Industrial PC Supports up to 24 I/O Modules

The SimpleTCA2004 is a 4U rack mount system providing 11 mid-size AdvancedMC slots including 8 chassis slots. Using the TAMC200 AdvancedMC module with its 3 IndustryPack slots up to 24 I/O modules can be integrated into a single computer. The system supports hot-swapping and allows up to 40W power dissipation per slot.

CHIPS & COMPONENTS NEWS

» ADI: DAC features 400-MHz bandwidth and speeds of 1.2 GS/S


» Cypress to highlight new PSoC 3 architecture at X-Fest

» Reticon: 15-MHz, 24-bit colour SerDes family for ultrafast displays


Sponsor Message

Cost-Effective in Widescreen Format

The new GCD1000 is an economic LCD monitor with a brilliant widescreen touch display designed for industry applications. The 15.1" display format offers even more room for the visualization of automation tasks. The IP65-rated monitor front meets CE industry regulations. It is therefore suitable for industrial applications directly on the machine. A VGA and a DVI interface are included as standard.



Managed Switch with Fiber Optic



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