

News

Automation
Intelligence.

Janz Automationssysteme AG · www.janz.de/as

February 2011



Contents

- **Embedded world 2011** page 1
- **Automatisierungstreff 2011 /
CoDeSys Users' Conferences** page 2
- **Presenting Janz Employees** page 2
- **New cooperation in
Scandinavia** page 3
- **port Profinet Stack at Janz
Embedded PCs** page 4
- **... Janz Success Story ...** page 5

embedded world 2011

We look forward to meeting you!



We will invite you to visit us at **embedded world 2011** from March, 1st until 3rd in Nuremberg, the world largest exhibition for Embedded Technologies. You will find the Janz Automationssysteme AG booth in **Hall 9, Booth 318**.

Update yourself with all the new products from Janz Automationssysteme AG - you will be amazed at tomorrow's technology on our booth.



Using your smart phone with an appropriate "app" you can get instant online detailed technical information about our products with this QR codes at our booth.

Reserve your free ticket for embedded world at: www.janz.de/as/Veranstaltungen.

If you want to pre-arrange a personal sales team appointment you can reach us by phone 05251/1550-0 or by email mailas@janz.de.

Please find more information about our products at: www.janz.en/as.

We look forward to your visit at our booth in Nuremberg!

Impressum/Editorial:

Janz Automationssysteme AG
Im Doerener Feld 8
33100 Paderborn
Germany

Tel: +49.5251.1550-0
Fax: +49.5251.1550-190
Website: www.janz.de/as
E-Mail: newsletter@janz.de

Registergericht/Registered:

Paderborn HRB 3996 · VAT/UST-IdNr.: DE813283509

Vorstand/Managing Directors:

Dipl.-Ing. Arnulf Lockmann, Dipl.-Ing. Michael Rennerich, Matthias Stute

Aufsichtsratsvorsitzender/Chairman Supervisory Board:

H. Michael Stangier

Redaktion/Editors:

Vertrieb/Marketing (newsletter@janz.de)

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Automatisierungstreff 2011



The Automatisierungstreff is not an exhibition, but a definitive platform for presentation and discussion of new technology and trends in industrial automation and building automation. Janz Automationsysteme AG will also take part at this congress this year. Look forward to products from the Embedded Computing and Custom Designed sectors. The congress takes place from March 15th to 17th in Böblingen/Germany.

Further information about the Automatisierungstreff 2011 is at www.automatisierungstreff.com!

Reserve your free ticket for the Automatisierungstreff 2011 at: mailas@janz.de.

More information about our products is at www.janz.en/as.

CoDeSys Users' Conferences

See the embedded CoDeSys controllers from Janz at the Users Conferences this year. This is an ideal venue for professional application development in industrial automation.

Here are the dates:

at March, 15th 2011 in Hamburg/
Germany

at March, 17th 2011 in Nürtingen/
Germany

at March, 22th 2011 in
Egerkingen/Germany

at March, 24th 2011 in Herdecke/
Germany

at May, 17th 2011 in Beijing/China

Further information about event locations and participants at 3S Software Solution: www.users-conference.com.



Employee Forum: Presenting Janz Employees

Production: Sebastian
Neumann



Function: Systems Integration

What is your professional background?

After acquiring technical college qualifications, I first visited a commercial technical school. But in 2002, I decided against graduation and opted for further education at Janz Automationsysteme AG. In 2005, I successfully completed this and qualified as a system integration IT specialist.

Which projects are you involved in?

In my activity as a system integrator I am (among other things) responsible for project implementation. I am automatically involved in many projects and cooperations. Currently, there are lots of promising projects we will see in the near future. One recent success story is a customized complex multi-processor system.

...Continued on page 3...

News

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...Continued from page 2...

How long have you worked at Janz?

From 2000 until 2002, I completed several school placements, vacations and temporary jobs while at Janz Computer AG. Since then, I commenced my Janz education-relationship in August 2002, always remaining faithful the company!

Why Janz?

Quality has at a very high importance at Janz, with which I identify 100%. Here I feel enriched every day in my work. Today, I appreciate knowing the environment and the working conditions in the company - an employee isn't just a name on a sheet of paper. I followed the continuing growth of the company since 2000. During my education Janz entered the arena of customizing industrial PC system solutions, which is for the company, and also for me, a tremendous challenge. Embedded and Applied Computing, and Custom Design are product segments with great potential.

What characterizes your work at Janz?

Extensive work experience in Embedded and Applied Computing. Furthermore, I would say I am a very self-critical person, always seeking to improve myself.

My duties are always performed with accuracy and precision. Next to my main area of responsibilities of system integration, repairing and customer support, I support the sales/purchasing and also the the service department.

What are your hobbies?

I've made my hobbies my profession, so outside the company I also keep up-to-date with the latest technologies and the newest computer technology. In addition, I go in for a range of sports as a relaxation from job-related workaday life.



New cooperation in Scandinavia

SDT - Scandinavian Drives Technologies AB

At SPS/IPC/DRIVES 2010, Janz Automationssysteme AG sealed a new regional cooperation for the Scandinavian market.

An agreement was signed in Nuremberg with the Swedish company SDT- Scandinavian Drives Technology AB.

For many years, SDT has been successful in machine automation with ist subsidiary Best Engineering AB.

The company owners have established competencies in CoDeSys programming and employ controllers from Janz Automationssysteme AG as a hardware platform.

Lars and Anders Radler from SDT management were on laction at the signing of the agreement.

Janz Automationssysteme AG looks forward to a growing cooperation with SDT.

Michael	Anders	Lars	Ulrich
Rennerich	Radler	Radler	Lütke Entrup



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port Profinet Stack at Janz Embedded PCs - Flexible Platform for HMI solutions

PROFINET has convincing, impressive growth figures in industrial Ethernet nodes.



The reputation as resource hog associated with this Protocoll has been shown to be wrong. Now, port GmbH presents their Profinet-Stack in cooperation with Janz for Embedded PCs. The compact and memory-efficient stack is optimized for embedded platforms with or without an operation system. All services are implemented for a Class A unit. The implementation needs only a Standard-Ethernet-Controller. With the many possibilities and programmability of Janz Embedded PCs, a truly flexible platform for the integration of HMI solutions is possible, which can communicate over the PROFINET protocol.

Janz embedded PC systems are available in Stand-Alone operation or in combination as an HMI system with industrial displays and resistive touchscreens. A wide range of processors and screen sizes are possible.

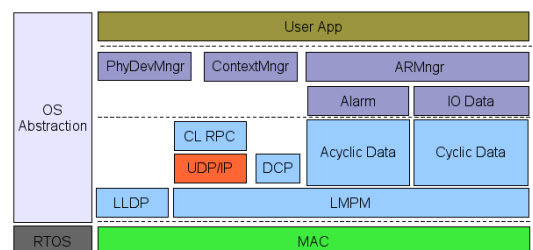


In addition to current Intel processors (e.g. Core2Duo, Atom N270 or Z530) ARM-based architectures are also offered. Consistent with your application, you can choose from processor architectures that are the ideal compromise of CPU capacity, power consumption, features and temperature range. For nearly all applications, a passively-cooled solution is available.

Company information port GmbH

Since 1990, port GmbH (Halle/Saale) have offered high-quality products and customization services in industrial communications. This computer retailer focuses on automation solutions for CAN, CANopen, DeviceNet, Real-Time Ethernet and Industrial Ethernet Security. Their business activities incorporate the development and sales of powerful standard products, comprehensive consulting, custom-made Fieldbus solutions and Embedded systems, including Embedded Linux. Customers are involved in all steps of the implementation and administration, and receive long range support and assistance. Furthermore, port also offers products and technology training.

To guarantee their customers worldwide support and service, port has cooperations with different companies in Germany, Europe and USA. The broad cooperation with different standards bodies guarantees customers a product offering which always corresponds the latest standing of the development. port has been ISO 9001:2008-certified since 1999.



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Unique Embedded Development System from Janz Automationsysteme AG!

...a Janz Automationsysteme AG Product Success Story

For 20 years dSPACE GmbH has been a world-leading supplier of tools for the development and testing of mechatronic control systems. As a notable pioneer, it has established key technologies like Rapid-Control-Prototyping and Hardware-in-Loop-Simulations. The broad product portfolio, seamless integration of Real-time systems in MATLAB®/Simulink®, and its technology base makes dSPACE GmbH unquestionably a top-level worldwide development partner in the automotive, aerospace and industrial automation arenas. The MicroAutoBox (MABX) is an example of a world-implemented Real-time development platform in Rapid-Control-Prototyping.

The new MABX II is a compact, passively-cooled development control system with a powerful PowerPC, comprehensive Bus and I/O interfaces and an optional integral FPGA-Board for custom-designed expansion. These characteristics - very short boot times, robustness for field use, and easy programmability with MATLAB®/Simulink® - are the new benchmark for this system class. Typically, the MABX II is used for development and validation of new operating algorithms directly in the vehicle. In very few iterations, users can model and configure their algorithm model in Simulink, or change the I/O interfaces and operating system tasks, by programming the MABX II with the push of a button. Development concepts from driver assistance, infotainment, HMI development and image processing place new demands on processing systems. To match these trends, the MABX II can be expanded with one of Janz Automationsysteme AG's specifically-developed Embedded products.

André Rolfmeier, Senior Product Manager at dSPACE GmbH says: „Because of Janz Automationsysteme AG's Embedded Knowhow, we were able to offer an extension option for the MicroAutoBox II within just a few months. The cooperation was straightforward and issues arising could be dealt with promptly. In Janz Automationsysteme AG we found a regional partner with obvious competence in Embedded PC technology.“

Communication between the PowerPC MABX II and the Embedded-PC is effected internally via UDP/IPEthernet. An integral Gigabit-Ethernet-Switch guarantees that, with Ethernet cable, both units can be activated from the control computer at the same time. All three

Gigabit-Ethernet connectors are available on the front panel. Both units can be switched on and off synchronously, e.g. from the ignition switch at the vehicle.

The computer unit is a passively-cooled Intel® Atom™-based PC (1.6 GHz; 2 GB RAM) - though more powerful processor types can be used. Microsoft® Windows® and Linux operating systems are available. A parallel Realtime open system runs on the IBM PowerPC with very short Worst-Case response time.



To incorporate WLAN, mobile communications or FireWire®, the computer unit offers an internal PCIe-MiniCard-slot and an Express-Card-socket on at the rear. A 2.5" hard disk is used for data storage. In addition, for video transmission etc., four USB interfaces and one DVI output at the front panel. The computer is designed for permanent installation in vehicles, from input voltage range, quiescent current and overvoltage protection, as well as passive cooling.

With the MicroAutoBox II and its embedded computing expansion, users now have a unique development system offering great versatility, compact configuration and almost unlimited possibilities.