EMBEDDED COMPUTING APPLIED COMPUTING INDUSTRIAL COMMUNICATION

News

Automation Intelligence

Janz Automationssysteme AG · www.janz.de/as

February 2010

Contents

embedded world 2010

We look forward to your visit!

Be our guest at this year's embedded world from March, 2nd until 4th in Nuremberg, the world largest exhibition for Embedded Technologies.

embedded world 2010 Exhibition&Conference

You will find Janz Automationssysteme AG's booth in **Hall 9, Booth 318.**

Your visit will be worthwhile!

We will be highlighting one of our small form factor ATOM-based embedded systems. In addition, on our booth we will show new installation options for our emVIEW-display family, such as support-arm and pedestal systems, and also a selection of „Custom Designed" products.

Reserve your free ticket for embedded world and pre-arrange a personal sales team appointment at **www.janz.en/as** or send us an email at mailas@janz.de.

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

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

CoDeSys SP RTE

Dual Display Solution from Janz

For machines and plant equipment that require two visual displays, a new solution is available from Janz. **CoDeSys** software running on our high-reliability PCs now makes dual touch-screen displays easy to accomplish. **CoDeSys** SP RTE Realtime IEC 61131 Runtime for Windows, running on a Janz emPC now supports one or two HMI displays. Janz emVIEW industrial displays also allow separate touch-screen functionality to be available on both displays.

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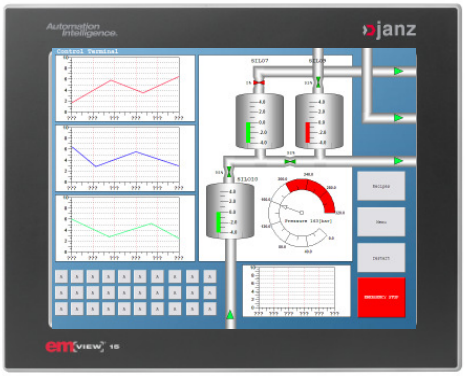
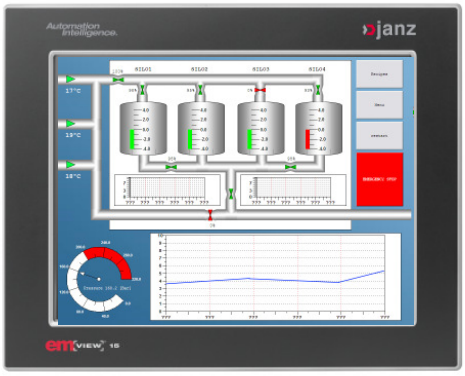


In this dual display solution, **CoDeSys** SP RTE runs on a Windows XPe-based Janz emPC-IATOM embedded PC, powered by an Intel® Atom™ N270 1.6GHz processor and up to 2GB DDR2 RAM. Fanless operation without rotating parts is accomplished by using an internal CompactFlash™ card as storage device.



CoDeSys (**Co**ntroller **De**velopment **Sys**tem) is a comprehensive software tool for industrial automation, consisting essentially of two parts: the programming system **CoDeSys,** and the runtime system **CoDeSys SP**. Running the visual **CoDeSys** system turns any Janz PC into an IEC 61131-3 programmable controller. Integrated compilers make sure that program code is processed at optimal speed, and the real time kernel guarantees deterministic behavior with accurate timing. The IEC 61131 Soft-PLC functionality provided by the realtime **CoDeSys** SP RTE application is augmented by the **CoDeSys** HMI application, which visually presents the variable data generated by **CoDeSys**.

Exhibitions/Events/Conferences

2010 Schedule

The new year 2010 promises to feature several interesting shows, events and conferences at which Janz Automationssysteme will take part. Please see if you can make it to the following events:

- **Embedded World 2010 (Hall 9, booth 318)**

  from March, 2nd until 4th 2010 in Nuremberg/ Germany

- **SPS Industrial Automation Fair Guangzhou 2010 (Hall 3.2, booth A053)**

  from March, 8th until 11th 2010 in Guangzhou/ China

- **CoDeSys User‘s Conference**

  at March, 16th 2010 in Herdecke/Germany

- **CoDeSys User‘s Conference**

  at March, 18th 2010 in Nürtingen/Germany

- **Automatisierungstreff 2010**

  from March, 23rd until 25th 2010 in Böblingen/ Germany

- **Automatica 2010 (Hall A2, booth 206)**

  from June 8th until 11th 2010 in Munich/ Germany

- **SPS/IPC/DRIVES 2010**

  From November, 23rd until 25th 2010 in Nuremberg/Germany

We welcome you to visit us at any of these fairs and events!

Please do not hesitate to contact your Janz Automationssysteme AG representative if you have questions. In most cases we can provide free show tickets.

We look forward to your visit!

If you don‘t have the opportunity to visit us at one of these events, further product nformation can be found on our homepage (www.janz.de/as/en) about our products and news.

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Employee Forum: Presenting Janz Employees

Production Dept: Norbert Hein

Function: Systems Integration

What is your professional background?

After my electronic technician training, I worked for different IT companies in Paderborn and Bielefeld (Germany). My scope of duties were to configure, to test and to repair IT systems.

In which project are you involved?

At the moment I am involved in a „Custom Designed“ complex multi-processor prototype system, which will go into production in the near future. Otherwise, my main area of responsibility includes the assembly and testing of industrial and embedded PC systems.

For how long do you work at Janz?

Since May 2004.

Why Janz?

I wanted to meet new challenges. I started my employment in the industrial and embedded PC product segment. Today, I am involved with strategically important components.

What characterizes your work at Janz?

Everything needs to be handled with a high degree of accuracy, and clearly defined product assembly and repair. In addition, I enjoy using my experience in the Industrial PC area, and assisting the sales and the production manager.

What are your hobbies?

I am an active team Badminton player, and I am also interested in the latest PC technology in my spare time. House renovating is my other main recreation at the moment.

News from the Marketing

Reorganization of the www.janz.en/as website

The product areas Industrial PC, Embedded Computing, Industrial Communication and Application & Customization on our website have been reorgranized, with New Product Overview now shown in more detail, with easily-available downloads for data sheets, manuals and drivers for specific products.

Now customers can quickly find all the information they need for specific products.

The „Custom Designed“ product range is brand new on our website. Here you can find information about customized products from Janz. We show there a range of made-to-measure products, which were developed from customer‘s own specifications.

Soon we will have „Emerging Markets“ on the website. There you will find solutions from the Janz product range presented for specific applications of Power and Energy (e.g. Smart Grids).

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Individual freight measurement with Janz AG products

...a Janz Automationssysteme AG Product Success Story

In the steadily growing market economy more and more goods are being delivered back and forth by various transportation methods. This represents immense costs. Flexible and cost-saving transportation for any unit load is therefore becoming increasingly important, which creates minimal wasted shipping space. Smart loading for irregular shaped goods is not only very important, it can also save a lot of money.

Rectangular paperboard containers can be arranged and sent easily, but bulky structures, like, for example, bicycles or exhaust systems, are hard to pack and send efficiently, raising both costs and effort. Transport by palett simplifies the shipment, but sometimes parts are oversized or the goods are hard to pack safely. Sometimes the goods need to be fixed or boxed in a reflective foil.

Freight measurement plants have to measure goods flawlessly. Every kind of packaging material has to be identifiable and may not be damaged during the measurement. Speed of measurement is also critical, since at big logistics companies no time delay is allowed for measurement.

AKL-tec GmbH from Alsdorf/Germany specializes in freight calculation, where not only paperboard containers and paletts are measured but also all kinds of transportation loads. The maximum dimensions of static objects encountered are 2.5m x 3.5m x 2.8m. The objects are routed by industrial truck or allocated by conveyor systems.

For the results to be both legal and accurate, this involves calibrating a multi-dimensional measuring system based on the regulations of the European Measuring Instruments Directive (MID). This requires an inspection by an authorized body - in the case of high volume devices from AKL-tec, this is the PTB (Physikalisch-Technische Bundesanstalt) in Braunschweig. The heart of these measurement devices, known under the brand name “Apache”, is a computer unit and display with an attached laser measurement scanner and camera units, which scans a miscellaneous cargo item and converts the measurements into a theoretical 3D model. Based on these readings, empty space can be minimized during transport through intelligent placement. This leads to discounted shipping options, since more goods can be transported simultaneously - and ultimately caring better for the environment since less gas is produced or used.

The embedded PCs and displays necessary for data calculation for these devices are supplied by Janz Automationssysteme AG. During the development phase, the latest technology was selected that could also offer long-term availability. Through prototype testing at the main plant eliminated the need for expensive, complex on-site modifications, but also took into consideration future expansion needs.

The PC systems are nearly-standard emPC-M systems with Core2Duo technology. Normally, the PC systems are fanless but for reliability reasons they have been fitted with a temperature-controlled fan to insure sufficient cooling for the computer unit for apllications in tropical areas. Signals are monitored and actuators in the plant are controlled via integrated PCI boards.

The displays for this system are produced with an AKL-tec-stylized housing design and provide touchscreen capabilities. The displays are mounted near to the measurement assembly, but up to 10 m from the computer unit, necessitating touchscreen operation.