



PRESS RELEASE

Performance Boost for Smart Displays

Vienna, Jan. 2020 – *demmel products* is setting new standards in smart displays with their new high-resolution IPS displays: the company is introducing a new, high-performance product line of JAVA programmable iLCDs at the embedded world 2020 exhibition. Also notable is *demmel's* innovative Java on a Chip (JoC) module – a tiny Java-programmable controller.

Users have expected their personal devices to be equipped with high-end, easy to use displays for many years now. "More and more industrial customers tend to have similar demands regarding their operating and visualization devices", says company founder Herbert Demmel. "By expanding our product portfolio, we are aiming to serve their needs too." Java programs now run 10x faster on the new, improved iLCD products, which feature a 525MHz processor. On-board support for high speed USB, I²C-, SPI- and Ethernet interfaces, in combination with IOs via Java, speeds up development tasks and saves complex, time consuming low-level programming.

Industry-leading Display Quality

demmel iLCDs feature IPS (in-plane switching) displays with a wide viewing angle (160°) which eliminates almost any loss of color and brightness, irrespective of viewing angle. The combination of remarkably high resolution and excellent brightness makes these displays an ideal choice for industrial applications. The 7-inch design provides a 1024x600 resolution. All new *demmel* iLCDs come with capacitive touch features by default.

Display Computing - No Operating System Needed!

The newly developed iLCD technology enables "Display Computing" with the object-oriented, high-level language Java, without any operating system. The displays instantly turn on at power up. There is no operating system related

overhead, so the full performance is available for your application or product. These iLCDs can also be used without Java by simply operating with an external controller.

“This provides significant the competitive advantages of shorter time-to-market, lower development costs, and a minimization of component count” says H. Demmel.

To support project planning, *demmel products* provides the iLCD Manager XE, including the Java- development environment, at no extra charge. This allows the customer to set up, configure, program, and test any iLCD device. The included display simulator and debugger for Java programs both facilitate the testing of screen-layouts and programs without any need for hardware. Automatic functions guarantee a quick start, and allow less-experienced program developers to be successful. No additional software or hardware is required.

A notable feature is the iLCD’s compact design. Despite the many built-in high-tech features, the package depth is only a little larger than the display itself. The thin form-factor supports design-ins in confined conditions.

Java on a Chip (JoC) – unique in the world!

Shown at the embedded world 2020 is a worldwide-unique design from *demmel products*: Java on a chip (JoC) - a mini-sized Java-programmable controller that has generated lively interest among experts since its introduction.

The Java-programmable controller module, occupying only an area of 24x36mm, is designed for a wide range of applications in smart systems. The highly integrated *JoC* can dramatically reduce development costs and time to market. *JoC* enables developers to implement applications in an object-oriented programming language easily and with reduced effort. In contrast to C or C++, the memory-managed approach of Java offers much better protection against hidden errors. Application development is accomplished on the *JoC* reference board *Javaino* with the help of the *JoC Manager*. The free downloadable IDE contains a complete Java development environment for editing, compiling, and debugging the applications.

The *JoC* offers many interface options. These include digital and analog I/Os, 2x RS-232 (TTL), PWM I/Os, I²C, SPI and a keyboard interface. A/D and D/A converters, as well as a battery-powered real-time clock are also available. Uploading applications, debugging and testing is easily done via USB.

Exhibition

embedded world 2020 | Hall 1 | Stand 371 | Contact: DI Herbert Demmel

Captions:

Intelligent IPS-Displays: High performance „Display Computing“ using Java

Intelligent Displays from demmel products (iLCDs) contain all necessary components to control displays directly on the panel and they can be programmed in Java.

Java on a Chip: JoC enables developers to implement applications in an easy-to-use, object-oriented programming language, and with reduced effort.

Company profile: demmel products gmbh

Since 1988, the *demmel products* name has been synonymous with excellence in the design and development of innovative solutions in both hardware and software. This Austrian powerhouse of ideas develops, produces, and sells state-of-the-art technology, making the life of the technology user easier, safer, and less stressed. *demmel products'* innovative solutions are well established on the market. The "Next Generation Intelligent LCDs" (iLCDs) are global technology leaders thanks to their high quality in this dynamic market segment. The company invests extensively in research and is continuously developing its product portfolio. The latest efforts have resulted in Java on a Chip (JoC) and the new smart display line. JoC is a world-first solution aimed at innovative and professional developers of smart applications.

demmel products solutions are used successfully in a wide variety of applications and industries. A constant goal is to offer our customers practical added value. *demmel's* numerous customers come from a wide variety of business sectors, including mechanical engineering, medical technology, electrical engineering, automotive, and many more.

www.demmel.com



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