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KONTRON ELEKTRONIK

KONTRON ELEKTRONIK's New DProbe167 is an Affordable Real-Time Debug Tool, for the Embedded Systems Software Developer

New Emulation Tool Supports Siemens 80C167 Family Including All Derivatives.

NEWPORT BEACH, CA (July 16, 1996) -- KONTRON ELEKTRONIK, a subsidiary of Bavarian Motor Works (BMW), the German automobile manufacturer, announces the availability of a new member to its family of personal real-time debug tools, the DProbe167. The DProbe167 supports all derivatives of the Siemens 16 Bit Microcontrollers C167, C165, C163 and the corresponding ST10 versions of SGS Thomson.

Using the Siemens Bondout processor, the KONTRON ELEKTRONIK DProbe167 features true transparent real-time debugging without using any resources of the target system. This allows uncompromised visibility of all chip internals, emulation of on-chip RAM and ROM (mask or flash) and full control over on-chip peripherals.

The plug and play design of the DProbe167 together with the MS Windows[®] compatible debugger provide the user an easy to use high-level debug environment combined with full real-time emulation. The DProbe167's small and compact design and the optional PCMCIA interface allows it to be used anywhere, even in the field.

The DProbe167 supports all supply voltages and runs up to the controller's maximum clock frequency at 0 waitstates. 64k samples of qualified trace provide a wide look at the controllers internal and external activities. Debug can be done in any operating mode, including single chip mode. In addition, all on chip peripherals can be halted or can continue functioning after a break point is reached.

KONTRON ELEKTRONIK has also pioneered two chip emulation into the DProbe167 which, through the use of a specific external peripheral bus connection, allows support of all existing and future derivatives of the Siemens chip. A large selection of adapters means KONTRON ELEKTRONIK has a solution for every target design.

The KONTRON ELEKTRONIK DProbe167 is priced from under \$10,000 and will be available in the 4th quarter of 1996. The emulator supports all derivatives of the Siemens C167, C165, and C163 family of processors used in embedded designs in the

automotive, PC peripherals, telecom and consumer electronics industries.

Like all KONTRON ELEKTRONIK emulators, the DProbe167 meets the demanding European EMI requirements, specified by the CE mark. This provides a very reliable and accurate system for testing critical targets, even in highly sensitive environments.

KONTRON ELEKTRONIK is an ISO 9001 certified company. Development Tools are warranted for one year and are 100% functionally tested before shipment. In the U.S., KONTRON ELEKTRONIK markets and supports its line of microprocessor development tools and its line of ruggedized, industrial computers from the U.S. headquarters in Newport Beach, California. Sales in the U.S. and Canada are handled by a nationwide organization of authorized sales representatives. For sales information or technical support call 1-800-KONTRON (566-8766) or e-mail at dtsales@kontron.com. Features of all KONTRON ELEKTRONIK emulators can be viewed on the Internet at <http://www.kontron.com>.

A Brief Profile of KONTRON ELEKTRONIK KONTRON ELEKTRONIK GmbH, founded in 1962 and headquartered in Eching, Germany, specializes in the development and marketing of computer-based solutions and services for professional users in research and industry on a global scale. The corporation is comprised of the Industrial Systems and Projects Division, the Development Tools Division, the Graphics Division, the Image Analysis Division, and the Material Analysis Division.

When developing and refining new products, each division incorporates both current and future customer requirements with the latest technologies. To date, this has produced a portfolio that includes portable and stationary industrial computers, software and hardware for image and material analysis, digital cameras, and digitizers for computer-aided design and construction. In addition, the company also applies its technological expertise to planning, analysis, and realization of network and communications solutions.

KONTRON ELEKTRONIK has 440 employees and has been a wholly-owned subsidiary of BMW AG since 1989. Its products are distributed via wholly-owned branch offices in France, Great Britain, Spain, Switzerland, the USA, Japan, and Singapore and via qualified distributors worldwide.



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