EEMBC Publishes Auto/Industrial Benchmark Scores for Infineon's TC1130 Linux-Capable 32-Bit Microcontroller

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(PRWEB) December 2, 2004 -- Infineon Technologies' 150-MHz TriCore TC1130 microcontroller, a 32-bit chip capable of running the Linux OS, has achieved an exceptional score of 95.2 Automarks in tests against EEMBC's automotive/industrial benchmark suite. The test results, which were certified by the EEMBC Certification Laboratory (ECL), represent a threefold improvement over the TriCore TC11IB-96, which was tested against the same automotive/industrial benchmarks in 2002.

The TC1130 is designed for use in programmable logic control (PLC) systems, high-performance motor drive systems, industrial communications devices, and consumer applications such as set-top boxes.

"The score of 95.2 Automarks is exceptionally high for an industrial MCU," said Markus Levy, EEMBC president. "This impressive boost in performance arises from the addition of a hardware floating point unit, increased frequency, and an enhanced external bus interface."

The TC1130 combines a Fast Ethernet (10/100 Mbit/s) controller, four CAN (Controller Area Network) nodes, and a USB module. An integrated FPU and MMU support the use of the increasingly popular Linux or RTAI Linux operating systems. Other features of the TC1130 include 144 Kbytes of on-chip RAM memory, a 64-bit high-performance Local Memory Bus (LMB) that provides fast access between caches and external memories, and Infineon's Flexible Peripherals Interface bus for enhanced on-chip communications.

"The TC1130 was designed to meet customer requirements for a powerful MCU platform with an excellent performance-to-cost ratio and a complete suite of high-performance on-chip interfaces to support industry-standard communications protocols," said Manfred Choutka, business development manager for microcontrollers in the Automotive & Industrial business group at Infineon Technologies North America Corp. "It is well-suited for next-generation designs of PLC systems; high-performance motor drive systems; industrial communications devices such as switches, hubs, and routers; and consumer applications like set-top boxes."

About EEMBC
EEMBC, the Embedded Microprocessor Benchmark Consortium, develops and certifies real-world benchmarks and benchmark scores to help designers select the right embedded processors for their systems. Every processor submitted for EEMBC benchmarking is tested for parameters representing different workloads and capabilities in communications, networking, consumer, office automation, automotive/industrial, embedded Java, and microcontroller-related applications. With members including leading semiconductor, intellectual property, and compiler companies, EEMBC establishes benchmark standards and provides certified benchmarking results through the EEMBC Certification Labs (ECL).

EEMBC's members include Altera, AMCC, AMD, Analog Devices, ARC, ARM, Atmel, CEVA, Cirrus Logic, esmertec, Faraday, Freescale Semiconductor, Fujitsu Microelectronics, General Dynamics, Green Hills Software, IAR Systems, IBM, Imagination Technologies, Improv Systems, Infineon Technologies, Intel, Intrinsity, IPFlex, LSI Logic, Marvell Semiconductor, Matsushita Electric Industrial, Mentor Graphics, Metaware, MetroWerks, MIPS Technologies, National Semiconductor, NEC Electronics, Nokia, Oki Electric

Industry, palmOne, Patriot Scientific, Philips Semiconductors, PMC-Sierra, Qualcomm, Raza Microelectronics, Red Hat, Renesas Technology, Rockwell Collins, Samsung Electronics, Sony Computer Entertainment, ST Microelectronics, StarCore, Stretch, Sun Microsystems, Symbian, Tao Group, Tensilica, Texas Instruments, Time Warner Cable, Toshiba, Transmeta, VIA Technologies, and Wind River Systems.

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