

Code Red Technologies and Luminary Micro Announce Availability of Code Suite™ Real Time Trace Development Tools for Full Range of Stellaris® Microcontrollers

Code Suite Full Featured Evaluation Tools Now Available For All Popular Stellaris Evaluation Kits

Austin, TX and San Francisco, CA — February 25, 2008 — Code Red Technologies (www.Code-Red-Tech.com), a developer of innovative and powerful software development tools for 32-bit microcontrollers, and Luminary Micro (www.LuminaryMicro.com), creators of the award-winning Stellaris® Cortex™-M3-based microcontrollers (MCUs), announce today the immediate availability of Code Suite™ development tools for Stellaris. Additionally, the companies announce immediate availability of Stellaris evaluation kits featuring an evaluation version of Code Suite development tools which is always unrestricted when used with the evaluation board.

Code Trace™: Real Time Trace Capability for Embedded Microcontroller Developers

With features previously unavailable to MCU developers, Code Suite incorporates Code Trace, a software feature that capitalizes on the serial wire viewing (SWV) technology in Stellaris microcontrollers to deliver unprecedented visibility during debug. Code Trace delivers high accuracy profiling, interrupt statistics, interrupt tracing, RTOS event tracing, and a unique no-overhead host-strings viewing mechanism which provides printf style debugging and logging without intrusiveness. Interrupt tracing provides impressive graphical visualization of what is occurring in a real time system.

“Code Red Technologies has created sophisticated development tools specifically for MCU users, with many features never before available to developers of deeply embedded systems. Code Suite users will be impressed with how Code Trace capabilities speed sophisticated embedded software to market,” said Jean Anne Booth, Chief Marketing Officer of Luminary Micro. “That the evaluation tools are not time- or memory-limited should also prove quite popular. We are very pleased to be working with Code Red Technologies to offer the newest and most innovative tools first to the users of our Stellaris microcontrollers.”

Code Suite Development Tools Built for Embedded Microcontroller Developers

Created from the ground up for 32-bit MCU application developers, Code Suite offers a complete professional development environment for C, C++ and assembler programming along with features and facilities previously unavailable in deeply embedded systems. The new features include MCU-specific project wizards, an embedded debugger, text indentation, function folding, online and offline integrated

MCU help, extensive project management automation and integrated source repository support. These MCU-specific features facilitate the rapid creation of the necessary startup and initialization code for programming a Stellaris microcontroller.

“Code Red Technologies is proud to work with Luminary Micro to bring its advanced tools technologies to market,” said John Rayfield, CEO of Code Red. “Stellaris ARM® Cortex-M3 microcontrollers deliver truly impressive in-system performance, in addition to being the largest selection of ARM-based microcontrollers on the market. With Luminary Micro’s wide range of easy-to-use evaluation kits, we are able to cost-effectively show embedded developers how Code Red delivers the best development environment for MCU users by exploiting the strengths of the Stellaris debug architecture for both run-stop control and trace.”

Built on the solid Eclipse IDE with extensive enhancements added by Code Red Technologies, Code Suite is delivered in a simple single installer, and provides a seamless environment for development. Project wizards create linker scripts and all startup code required to have embedded applications running on your target in minutes. Code Suite also works with RTOSes for designs where the resources of a real-time kernel are required, and includes a FreeRTOS.org™ project wizard. These coordinated enhancements allow much faster development, debug, test, and profiling of applications, allowing shorter time to market for even the most complex MCU-based applications. The integrated advanced debugger provides automatic Flash download (when needed), and full access to the innovative peripherals integrated in Stellaris microcontrollers, including an interactive display of all peripherals and registers on the devices. For ease of use, all registers and bit-fields are displayed in their natural formats.

“Many designers are moving to high-performance microcontrollers such as those from Luminary Micro, and are finding that the pure interrupt-driven model does not scale as processing power increases. The FreeRTOS.org community helps ensure a simple, compact Real Time Kernel is available to make migration as simple and painless as possible,” said FreeRTOS.org founder Richard Barry. “With the out-of-the-box project wizard support in Code Suite, it is easy for microcontroller developers to use an embedded RTOS, and FreeRTOS.org’s ability to move from an open-source solution to a commercial license provides excellent flexibility for users.”

Stellaris Evaluation Kits: Running in 10 Minutes or Less

New evaluation kits are now available from Luminary Micro and Code Red Technologies that incorporate Code Suite, and allow the use of the full unrestricted use of the development environment. These kits, which are priced from USD \$49 to USD \$89, are available for a number of different configurations including:

- EKT-LM3S8962- Stellaris LM3S8962 Evaluation Kit with Code Suite Development Tools, featuring integrated 10/100 Ethernet and CAN internetworking
- EKT-LM3S6965- Stellaris LM3S6965 Evaluation Kit with Code Suite Development Tools, featuring integrated 10/100 Ethernet networking
- EKT-LM3S2965 – Stellaris LM3S2965 Evaluation Kit with Code Suite Development Tools, featuring integrated CAN communications
- EKT-LM3S1968 – Stellaris LM3S1968 Evaluation Kit with Code Suite Development Tools
- EKT-LM3S811 – Stellaris LM3S811 Evaluation Kit with Code Suite Development Tools

The evaluation kits can be purchased on line at www.code-red-tech.com/buylmi, or through Luminary Micro's global sales channel (www.LuminaryMicro.com/buy_now or www.LuminaryMicro.com/sales).

A full license to Code Suite development tools with all the power, functionality, reliability and ease-of-use of far more expensive products is available through an online upgrade of the evaluation kits from the Code Red Technologies website for \$999. No additional hardware is required, and the evaluation board can serve as an emulator for customer target boards.

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About Luminary Micro and Stellaris

Luminary Micro, Inc. designs, markets and sells ARM Cortex-M3-based microcontrollers (MCUs). Austin, Texas-based Luminary Micro is the lead partner for the Cortex-M3 processor, delivering the world's first silicon implementation of the Cortex-M3 processor. Developed for use in embedded and industrial applications, Luminary Micro's introduction of the award-winning Stellaris® family of products provides 32-bit performance for the same price as current 8- and 16-bit microcontroller designs. With entry-level pricing at \$1.00 for an ARM technology-based MCU, Luminary Micro's Stellaris product line allows for standardization that eliminates future architectural upgrades or software tools changes.

About Code Red Technologies

Code Red Technologies Ltd. was established in 2006 to build innovative tools and technologies to accelerate the development of 32-bit microcontroller applications. The company has developed its own technology to create application code and provide unprecedented levels of visibility into runtime information of that code; its tools, which are available at a significantly lower cost than those previously available, enable embedded systems designers

to get running with their applications in just minutes instead of weeks. Based in Cambridge UK, and San Francisco, California, more information can be found at: www.code-red-tech.com.

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