



## **ZiLOG partners with IAR Systems, First Silicon Solutions to deliver Embedded Internet Connectivity tools**

### **Partnership provides complete range of software development tools for ZiLOG's eZ80™ family of Webservers**

*Uppsala, Sweden (March 13, 2002) – ZiLOG,® Inc., the Extreme Connectivity Company™, and partners IAR Systems and First Silicon Solutions [FS2] announce the availability of professional software development tools for ZiLOG's new eZ80 Webserver family of microprocessors. The eZ80 Webserver family of high-performance processors enable easy, cost-effective, direct connections to networks and the Internet. The software tools include the IAR Embedded Workbench, IAR MakeApp, and FS2 Navigator Hardware-Assisted Debug Tools.*

#### **Tools Development Follows Cooperative Agreement**

Earlier this year, ZiLOG selected IAR Systems to develop a complete tool chain for ZiLOG's eZ80 Webserver family which will be integrated with the FS2 Navigator Hardware-Assisted Debugger. The eZ80 Webserver (eZ80190) is the first in a family of high-performance processors that provide a complete Internet development environment: evaluation board, emulator, integrated development environment (IDE), and a full-featured embedded Internet protocol suite.

ZiLOG's eZ80 Webserver leverages the existing infrastructure of the Internet (i.e., Internet protocols, software tools and browsers) to create a powerful tool that will allow engineers without Internet expertise to easily Web-enable their applications.

IAR System's easy-to-use development tools will allow engineers with minimal Internet knowledge to immediately implement the Internet protocol stack into design.

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“ZiLOG conducted a sophisticated vendor selection process based on the markets we serve, vendor acceptance in those markets, and the synergy between ZiLOG and those vendors. Deservedly, IAR Systems topped our list, and its Embedded Workbench suite will complement ZiLOG's offering well,” said David C. Fritz, Vice President of ZiLOG's Xtreme Tools Group.

### **Powerful Internet Connectivity**

ZiLOG's eZ80 Webserver is designed to perform the complex functions required by today's connectivity-enabled applications. It operates at 50 MHz and addresses 16 MB without an MMU. It features IPWorks, an Embedded Webserver Suite from Metro Link, Inc., that implements 15 Internet protocols, including TCP/IP, HTTP and PPP.

“A sophisticated and advanced microprocessor such as ZiLOG's eZ80 Webserver requires powerful development tools for all features to be fully utilized in the applications,” said Andreas Lifvendahl, Partner Manager at IAR Systems. “We provide a tool chain that really lives up to these tough demands.”

### **IAR Embedded Workbench**

IAR's Embedded Workbench is the leading Integrated Development Environment for embedded software development, and acknowledged for its high-performing compilers and powerful debuggers. The eZ80 Webserver tools are based on a comprehensive new technology platform released in early 2001. With this superior technology platform, the IAR Embedded Workbench fully integrates all functionality needed for embedded software developers. The workbench is seamlessly integrated with the FS2 Navigator Hardware-Assisted Debugger. Never before has a developer had as much control over his debug sessions.

“The technology platform in the IAR Embedded Workbench provides a solid platform for ZiLOG's eZ80 Webserver family,” said Mats Ullström, Product Manager at IAR Systems. “We have been able to build a product that produces extremely small and efficient code, while at the same time providing endless possibilities for future enhancements through cooperation with RTOS vendors and emulator vendors.”

The first release of IAR Embedded Workbench for eZ80 is targeted for non-connectivity applications. It features an ANSI C and an Embedded C++ (EC++) compiler, allowing

developers to use an object-oriented design approach, and support for hardware debugging with the First Silicon Solutions' (FS2) In-Target System Analyzer. In the middle of 2002, IAR will release a powerful upgrade version that will interface with ZiLOG's complete eZ80 Webserver connectivity solution including the Metro IPWorks TCP/IP stack and OS. The feature set of the IAR tools for the eZ80 will grow richer over time.

The first release of IAR Embedded Workbench for the eZ80 Webserver will feature an ANSI C compiler and support for hardware debugging with First Silicon Solutions' FS2 Navigator hardware-assisted debugger. A powerful upgrade version will be released in the beginning of 2002. This release will be tailor made for eZ80 Webserver connectivity applications. It will be tuned to generate efficient and small footprint communication protocol libraries (such as TCP/IP), and will also support easy library generation from within the IAR Embedded Workbench. The IAR Embedded Workbench Project Manager will also allow inclusion of Internet-related files into a project. As an example, C and HTML-files can be added into one project, and a "build" operation will instantly generate object files ready to use. In addition, the tool will support programming in Embedded C++ (EC++), allowing developers to use an Object Oriented design approach.

The feature set of the IAR tools for the eZ80 Webserver will grow richer over time. RTOS-aware debugging will be introduced through IAR's partnership program, where RTOS vendors and IAR cooperate to ensure interoperability between application software and the RTOS.

### **Device Driver Wizard**

The IAR MakeApp allows users to quickly configure the device using a graphical interface, and to create all control software for the peripheral modules on the chip. The application software obtains instant access to the peripherals in the microprocessor. MakeApp generates optimized high-quality device driver functions, as well as commented C code that includes initialization, run-time control and interrupt handling functions ready to be compiled with the IAR C compiler. The IAR MakeApp for ZiLOG's eZ80 Webserver is available for online purchase at [www.iar.com](http://www.iar.com) for only \$199.

### **FS2 Navigator Hardware-Assisted Debugger**

The FS2 Navigator Hardware-Assisted Debugger for the ZiLOG eZ80 Webserver is a

hardware-based debug tool that interfaces to the target using the standard ZiLOG debug interface (ZDI). The analyzer allows the user to view and modify CPU registers, memory, and I/O. It provides processor run control, flash programming, and up to 4 hardware execution breakpoints. Special software drivers provided with the FS2 system analyzer allow the user to seamlessly access all of its capabilities from the IAR Embedded Workbench interface, making the system a complete hardware and software debug environment.

### **A Complete Chain of Tools for Software Development**

IAR visualSTATE is an integrated suite of tools for the embedded software development process. It includes a UML-compliant graphical design environment, advanced verification and validation tools, and a powerful code generator. Due to the unique technology, it is possible to perform exhaustive testing and to generate reliable C code in just a few seconds.

The IAR visualSTATE, IAR Embedded Workbench and IAR MakeApp provides a complete tool chain for the software development process -- from design, coding and testing to final FLASH/PROMable code for production.

All these products are available through IAR's worldwide distribution network and its own sales offices. The IAR MakeApp for ZiLOG's eZ80 Webserver may also be purchased and delivered via the Internet.

### **About IAR Systems**

By focusing on the embedded systems industry, IAR Systems has reached the position of leading supplier of software development tools for embedded Microprocessors. Since the company was founded in 1983, IAR has worked in close cooperation with the world's major chip manufacturers to develop a wide range of programming tools supporting a large number of chip architectures. The tools today consist of highly efficient C and EC++ compilers in the IAR Embedded Workbench™ development environment, the device driver wizard IAR MakeApp™ for graphical configuration and initialization of the chip and creation of complete device drivers and the IAR visualSTATE® graphic programming tool with a patented technology to generate validated and small production-ready code. IAR Systems also provides a total solution for Bluetooth™ protocol stacks and applications, from development of Bluetooth devices to qualification. IAR Design Services injects engineering expertise and experience into embedded system projects. It contributes to IAR's mission to reduce the development time for embedded systems and accelerate time-to-market. IAR Systems has offices in the US, UK, Japan, Canada, Germany, Denmark, and Sweden. [www.iar.com](http://www.iar.com).

**About ZiLOG, Inc.**

ZiLOG, Inc., the Extreme Connectivity Company, designs, manufactures and markets semiconductor solutions that enable embedded control, connectivity and communication. Headquartered in Campbell, Calif., ZiLOG employs approximately 900 people worldwide. ZiLOG maintains design centers in Campbell; Austin and Ft. Worth, Texas; Nampa, Idaho; Seattle, Wash.; and Bangalore, India; advanced manufacturing in Nampa; and test operations in Manila, Philippines. [www.zilog.com](http://www.zilog.com)

**About First Silicon Solutions [FS2]**

First Silicon Solutions [FS2] provides IP and custom development tools for testing and debug of microprocessor-based hardware and software. FS2 products help silicon vendors and their customers develop and more effectively market their products, reducing their development cycles, and allowing them to focus on delivering all the potential of the system on silicon. [www.fs2.com](http://www.fs2.com)

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