



## *Embedded Internet Software Suite*

# ZiLOG Extreme Connectivity

### **A complete embedded Internet solution**

The eZ80 Webserver combines a high-performance embedded processor with a turnkey Internet software suite. On-chip TCP/IP protocols work in conjunction with a physical layer interface to enable connectivity in a wide gamut of applications. By taking advantage of this system-on-a-chip solution, you can concentrate on developing applications instead of integrating stacks and testing functionality and interoperability.

### **Contains a TCP/IP stack and more**

The eZ80 Webserver protocol stack offers more than just a TCP/IP stack. This complete, Internet-ready stack features the following protocols: IPv4, TCP, UDP, IP, ARP, RARP, SMTP, ICMP, PPP, HTTP 1.1, and DHCP. The full stack ensures interoperability with other platforms. It also provides Ethernet and serial device drivers, all of the relevant and latest approved RFCs, POSIX-compliant RTOS, and the ability to operate with or without the ZiLOG Real-time Kernel (Real OS).

The Hypertext Transfer Protocol (HTTP) enables the transmission and receipt of HTML form data and the dynamic generation of web pages. The stack also allows authorized users to monitor and control network-connected appliances and devices. Through the browser, users can also conduct software maintenance and upgrades as well as change system settings. Communications can occur through physical layers such as UART and Ethernet.

### **Offers unique advantages**

Unique to ZiLOG's stack is a supporting socket API within 64K. A socket API's advantage over a raw interface is that it hides protocol details from the user. This increases the speed of your application integration. You can also take advantage of a complete set of configuration options to create a customized stack that meets your specific needs. The final size of your



stack will be determined by the protocols used. For a full configuration, and support for the popular socket API interface, less than 64KB (power size) will be needed.

### **Upgrades are as easy as logging onto [zillog.com](http://zillog.com)**

You will receive your stack on CD-ROM along with a User Manual, application API, and application notes. Upgrades are easy to obtain on [zillog.com](http://zillog.com) and are offered free of charge for all eZ80 uses. Enhancements will be introduced at regular intervals.



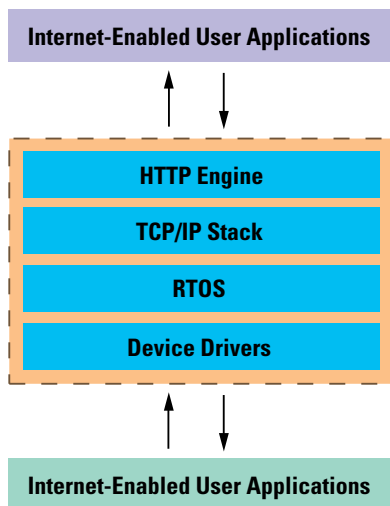
## Stack Features

- Full TCP/IP support
- Basic protocol set: IPv4, TCP, UDP, ARP, RARP, ICMP, PPP, HTTP1.1, DHCP/BOOTP
- Additional protocol set: IGMP, SLIP, SMTP, SNMP, TFTP, Telnet
- Basic set within 64K
- Configuration utility to customize the stack for your application
- HTML to C conversion utility
- Ethernet and serial device drivers
- Latest RFCs
- POSIX-compliant RTOS
- Also supports Z180 and Z382 products

## Applications

- Internet appliances
- Industrial control
- Factory and office automation
- Building control
- Security
- Web and server management
- Personal digital assistant
- Modem controller
- High-performance electronic games
- Meter and card reading

## eZ80 Software Stack



## eZ80 Software Application

