

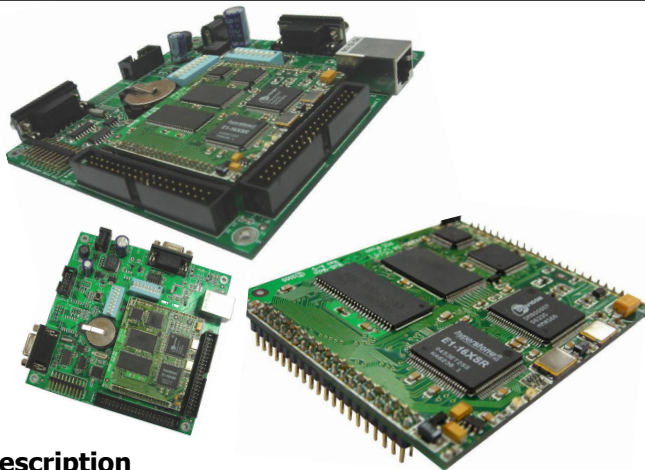


WoB Kit™

E1-16XSR RISC/DSP CPU from Hyperstone

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Description

This Kit offers a fast and cost-effective way to develop embedded applications using common serial communications and Ethernet. The WoB Kit comes with a mainboard fitted on a development board. PCC's WoB MainBoard™ is the high performance CPU board. PCC's WoB Development Board™ is a compact interface hardware with an outline of just 4,55 x 4,55cm, and can be connected directly to personal computers or networks.

The Network Operating System HyNetOS™, supplied within the CPU of WoB MainBoard™, offers a Protocol Manager, a File Manager, a Device Manager with a Hardware Abstraction Layer (HAL) and various related system functions.

Network Operating System HyNetOS®

Supported protocols and features in HyNetOS® are:

- ☞ ARP, IP, ICMP, UDP, TCP, DHCP, SNMP, SMTP
- ☞ File system (RAM disk, flash disk, memory cards)
- ☞ HTTP client and server incl. SSL
- ☞ FTP client and server and Telnet server
- ☞ Java™ Virtual Machine (J2ME/CLDC)
- ☞ JPEG compression and decompression
- ☞ Real-Time Ethernet Protocols

Supported device drivers in HyNetOS® are:

- ☞ UART, SPI, SSI, I²C, CAN, RS232, RS485
- ☞ Parallel ports (IEEE1284, FIFO, Dual-Ported RAM)
- ☞ 10BaseT/100BaseTX Ethernet, USB device and host
- ☞ Epson LCD graphics controllers, various CMOS sensors

Kit Contents

The Kit comes complete with hardware, HyNetOS operating system including development and administration tools, many demo examples in source code and complete documentation. As a host PC (not part of the kit) any PC with Microsoft Windows (98/ME/NT/2000/XP) is suitable

Supplied Hardware:

- ☞ 1 WoB MainBoard attached on development board.
- ☞ 1 WoB Development Kit Board, along with a power supply, 1 RJ45 Ethernet jack, two RS232 ports (one is debug port), a USB host port, an RS485 port, Real-time clock.
- ☞ 1 9V DC power supply.
- ☞ 1 ethernet (Cat5) cable, 1 serial (RS232) cable.
- ☞ 1 crossover (100BaseT) cable, 1 USB A to A male cable.

Supplied Software (CD included):

- ☞ HyNetOS with all extensions including an unlimited evaluation license.
- ☞ Complete set of development tools including C-Compiler, Assembler, Linker, Library Manager and Debugger.
- ☞ Complete set of Ethernet administration tools for loading, tracing, configuration and flash disk formatting.
- ☞ Full version of hyDebug® v1.07 debugger IDE supplied by Hyperstone.

The Network Operating System HyNetOS® has been specifically optimised for highly efficient network communication and a very small memory footprint.

Kit Editions

The Kit comes complete with hardware, HyNetOS® operating system software as well as all required development and administration tools. It is available in three different editions.

The Base Edition and Software Edition allows C programming with built in C debugger and compiler. HyNetOS® operating system also accepts Java code. Java application code developed on a PC can be transferred to the target system via FTP file transfer. Limited technical support is provided by PCC Elektronik with Base Edition. In addition to Base Edition, Software Edition includes five hours of software development courses arranged by PCC.

The Professional Edition combines the features of both Base and Software Editions. Additionally, software and hardware courses are arranged by PCC with this edition. The HyNetOS operating system environment is shipped as ROM code only (the OS can not be rebuild). Even more, all device drivers are supplied in source code, new device drivers can be added and the OS can be adapted to support ANY customer specific hardware. Even the hardware itself can be redesigned, since also schematics of PCC's WoB Development Board are supplied in this edition.

The Professional Edition runs on any PC with Win98/ME/NT/2000/XP and Ethernet Adapter Card. A Java2 Standard Edition (J2SE) SDK from Sun Microsystems v1.4 or newer (available for free via Internet) is required to run some parts of the Client/Server demo software and for Java programming.

Licensing

The kit price includes permanent licences for Hyperstone's real-time kernel hyRTK and development tools as well as an Evaluation Licence for HyNetOS® Base Version. Based on the agreement between buyer and vendor, several development seats can be equipped with this licence. The licence policy is based on a royalty system. For details please contact PCC Elektronik.

Additional Information

For E1-16XSTM CPU architecture and hyDebug see: <http://www.hyperstone.com>

For the WoB Kit® see: <http://www.pccotech.com>.