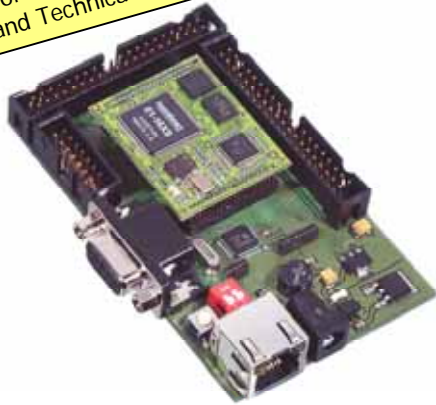


Micro WebTarget™ Starter Kit

Complete Evaluation Set
 Hardware, Software, Tools, Demos
 Licences and Technical Support



Description

This Kit is designed for an easy and fast development of embedded networking applications based on the powerful Hyperstone 32-Bit RISC/DSP CPU E1-16XS, 10/100 Mbit/s Ethernet and SND's Embedded Network Operating System 4NetOS®. The Micro WebTarget2 is a compact Single Board Network Computer (dimensions: 3.2 x 4.2 cm) with Ethernet. It comes on a shuttle board intended to carry the CPU Board, while providing a power supply, a network connector, a serial debug port and additional expansion ports.

The Network Operating System 4NetOS® has been specifically optimised for highly efficient network communication and a very small memory footprint. It offers a Protocol Manager, a

File Manager, a Device Manager with a Hardware Abstraction Layer (HAL) and various related system functions.

Kit Editions

The Kit comes complete with hardware, 4NetOS operating system software including several extensions as well as all required development and administration tools. It is available in 2 different editions (refer to table below).

The **Base Edition** is offered for entry-level C Programming on SND's Micro WebTarget2 board. All C-Tools are included and the 4NetOS operating system can be rebuild using SND's standard driver library targeting the Micro WebTarget2 board. 30 days of technical support and updates are included.

The **Professional Edition** has all the features of the Base Edition, plus the option of Java Programming, so applications can be programmed in Java or in C. 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 SND's Micro WebTarget2 board are supplied in this edition. 90 days of technical support and updates are included.

Both Editions run on any PC with Windows 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 for the Professional Edition.



	Hardware ¹⁾						Operating Software						Tools					Documentation							
	Micro WebTarget2	Micro BlueTarget	Carrier Board - Shuttle2	RS232 Level Shifter	Internat. Power Supply	Set of Cables	4NetOS Base Version						C-Compiler	Assembler	Linker	Library Manager	Tracer	Administration Tools	C-Programming Guide	C-API Reference	Java Programming Guide	Java API Reference	Hardware Design Guide	Hardware Schematics	
I*Target COM	J*Target CLDC	W*Target Blue	A*Target EPL Slave	A*Target EPL Master	A*Target PNIO	A*Target ENIP																			
Base Edition	1	-	1	1	1	1	✓	✓	-	✓	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-
Professional Edition	1	-	1	1	1	1	✓	✓	✓	✓	-	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

1) see separate flyer "Reference Board Overview"

2) see separate flyer "4NetOS Overview"

Licensing

The kit price includes permanent licences to the development tools as well as an Evaluation Licence for 4NetOS® Base Version with all Extensions (as listed above) including 30 days of technical support and update service for the Base Edition and 90 days for the Professional Edition. Up to 10 development seats can be equipped with this licence. For serial products based on 4NetOS an upgrade to any of the production licence levels is required. The licence policy is based on a royalty system.

Additional Information

Please refer to the separate flyers, **Reference Board Overview** and **4NetOS Overview** for more detailed technical information about the Micro WebTarget2 Single Board Network Computer and its operating system 4NetOS. Additional Hardware Peripherals such as 8 channel Digital IN/OUT boards are also available. Product information on SND's continually expanding product range is available at www.smartnd.com.