

# SPEED Kit™ developer's bundle

Hardware and software tools for data-intensive  
embedded products

## Product Datasheet

"The SPEED Kit offers potential to developers that is unique in the embedded systems area."

-- mycable GmbH

### Overview

The SPEED (Small Profile Embedded Engine for Devices) Kit combines McObject's eXtremeDB® in-memory embedded database with mycable's XXS1500® MIPS System.

The kit is designed for fast set-up and installation, allowing you to be productive in minutes. The kit contains all the hardware, software and tools you need to start writing application code for your data-intensive product immediately. All components are integrated and ready to run so you don't waste any time configuring individual components. The Kit includes full source code for reference applications to streamline development in key markets including multimedia, monitoring and control systems, and an extensive list of example programs demonstrating how various eXtremeDB functions and features operate.

By assembling and integrating best-in-class software and hardware, the SPEED Kit reduces time-to-market for many products including consumer electronics, monitoring and intelligent industrial controllers. Through the two products' uniquely frugal resource requirements, the kit adds the critical advantage of lower component cost, both for prototypes and for mass-produced end-user devices.

### Software Components

- Linux operating system for MIPS32-architecture
- GNU tool chain including
- gcc 3.2.1, glibc 2.3.1, gcc for uclibc 3.2.3, uclibc 0.9.19
- Linux kernel 2.4.21 (GPL license)
- GNU debugger MIPS cross gdb 5.3, gdbserver
- Debug monitor (serial, Ethernet and EJTAG)
- BSP inclusive JFFS2, CF IDE
- Busybox 1.00 with over 100 standard Unix utilities
- eXtremeDB 2.2 Development Kit including:
- eXtremeDB Data Definition Language Compiler (Linux x86 hosts)
- eXtremeDB conventional memory runtime for MIPS32 (one development license)
- eXtremeDB XML extensions
- Sample programs
- eXtremeWSI® embedded web server
- Three reference design applications with a complete source code for the consumer electronics, industrial control and remote monitoring fields

### Hardware Components

The SPEED Kit XXS1500 device is the XXS1500 module in a case with passive cooling, not much bigger than a cigarette box. The processor is an Au1500 (MIPS32) from AMD. It combines a high level of system integration and computing performance with very low power consumption. The XXS1500 device features the following:

- Au1500 with 500 MHz
- 2 x Fast Ethernet
- 1 x USB Host (1.1)
- 2 x Serial RS232
- 64 or 128 MByte SDRAM
- 16 MByte flash
- CompactFlash slot
- Stereo audio in & out (AC97-Codec on board)
- DSUB25 connector with 16 GPIOs, PCI USB Device (1.1), reset, wakeup and software switchable 3.3V and 5V supply with 300 mA each.

McObject Support includes 30-day New User Technical Support; other support options are available.

The device module has a power consumption of 3-4 Watt maximum.

#### McObject LLC

22525 SE 64th Place Phone:+1 425 888 8505  
Suite 302 Fax: +1 425 888 8508  
Issaquah, WA 98027 www.mcobject.com

#### mycable GmbH

Boeker Stieg 43 Phone:+49 4873 901 954  
D-24613 Aukrug, Fax: +49 4873 901 976  
Germany www.mycable.de