

mycable:

## XXSOEM Modules

### Room for your Ideas

Combining the highest level of system integration, performance and reliability with cost effectiveness and lowest power consumption, mycable's XXSOEM modules are the solution for embedded control and multimedia systems par excellence. All XXS modules are based on bank card-sized PCBs with a high density PCI connector and all interface connectors on board. They are delivered with comprehensive and free of charge board support packages for Linux, QNX, and soon also WindowsCE.NET. For Linux the entire toolchain and an up-to-date kernel are provided. The modules are also available as development kits. Customer specific system development and production services are offered by mycable to enable the realisation of your innovative products and systems. Further XXS modules are under development, the XXS module specification is open.

### XXS1500 (USI23-1500 & 1501)

The core of the XXS platform consists out of the functional intersection of the most high-end embedded systems: a module with a RISC-CPU, a set of generic interfaces and a us to connect further peripherals. The processor is an Au1500 (MIPS32) from AMD, combining a high level of system integration and computing performance with a very low power consumption. The XXS module has the following features on the area of a bank card:

- Au1500 with 500 MHz
- 2 x Fast Ethernet
- 1 x USB Host (1.1)
- 2 x Serial RS232
- 64 or 128 MB SDRAM
- 32 MByte flash
- Compact Flash slot
- Stereo audio in & out (AC97-Codec on board)
- PCI Rev. 2.2 66 Mhz, together with USB device (1.1), reset, wakeup and some IOs on an edge connector

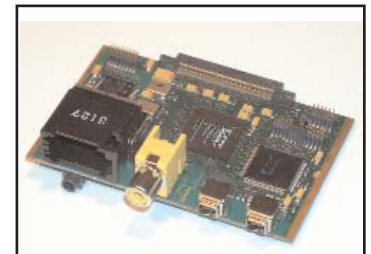
Linux Support in detail:

- Cross toolchains: gcc 3.2.1, gcc for uclibc 3.2.3, uclibc 0.9.19
- Linux kernel > 2.4.21
- GNU debugger MIPS cross gdb 5.3, gdbserver
- Debug monitor (serial, Ethernet and EJTAG)
- BSP inclusive JFFS2, CF IDE
- Busybox 1.00pre3 with over 100 standard Unix utilities like shell, login, telnet, ftp, and more
- Web server, MP3 player, JVM (Kaffe) and more



### XXSMPEGA (USI23-1550)

The XXSMPEGA is a combined MPEG hardware decoder, IEEE1394a and MOST card. It is based on Fujitsu's automotive compliant MPEG decoder MB86H22, a dual IEEE1394a-2000 controller from TI and a MOST interface chip from OASIS. The digital video output of the MPEG decoder can be connected directly to the XXS3DI.



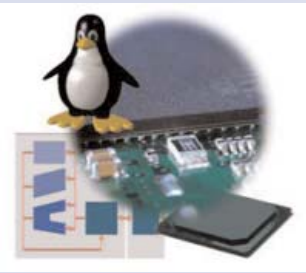
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## XXSDevices

### High-End Embedded Solutions

Embedded systems with internet connectivity and multimedia functionality start to penetrate almost all areas of our life. Examples are car navigation and travel infotainment systems, consumer devices, multimedia PDAs, and various more from other areas like telecommunication, networking and industrial to name the most important. All these systems have similarities: they are small, lightweight, highly integrated, cost efficient, ubiquitous with full network and internet connectivity, and they have very low power consumption. mycable's XXSDevices combine these properties in a modular and scalable platform. Together with freely available BSPs for Linux with QT/Embedded Free, QNX, and soon WindowsCE.NET they are leading into innovative solutions for today's and tomorrow's embedded control and multimedia systems.

### XXS1500 (USI23-1500A & 1501A)

The XXS1500 device is the XXS1500 module in a case with passive cooling, not much bigger than a cigarette box. It is suitable for applications like universal, configurable router, firewall, VPN node, network audio broadcasting/recording gateway, and more. Compared to the CPU module the XXS1500 has additionally 16 free programmable IOs and switchable 3.3V and 5V for the supply of external systems.

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



### XXS3HC (USI23-1510 & 1511)

The XXS3HC-Device can contain up to three XXS-Boards and a Mini PCI card for WLAN. This complete computing system has only a height and width of 95mm and a depth of 75mm. All main components like CPU or graphics accelerator have a passive cooling. The XXS3HC Device is equipped with a XXS1500 module (CPU) and a XDS3D1 module (graphics) by default. It is also possible to combine a CPU module with two XXS3DIO modules or three XXS1500 modules together.



### WLAN Mini PCI Kit (802.11b WLAN) (USI23-1560)

### WLAN Mini PCI Kit (802.11g WLAN) (USI23-1561)

A set of accessories is available for the XXSDevices, such as cables, worldwide power supplies, and more. WLAN as a key technology is supported with a CompactFlash card for the XXS1500 and with Mini PCI cards for the XXS3HC.

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