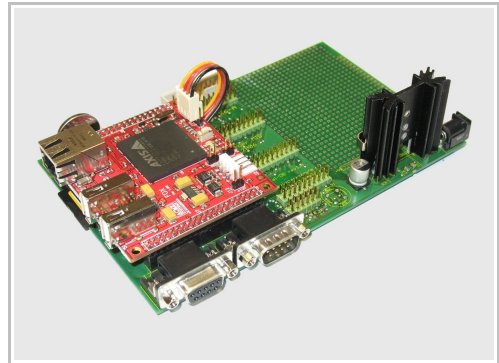
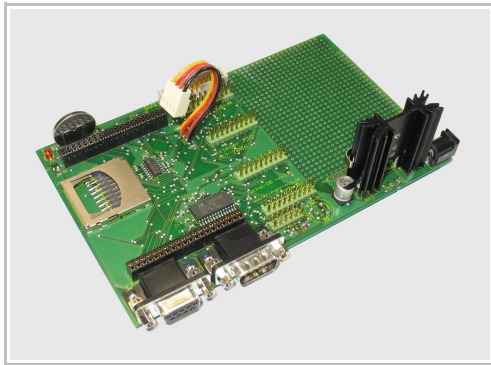


Jackal Developer Board

The Jackal Developer Board is the ideal base for software and hardware development using the FOX CPU Board manufactured by ACME Systems. It does providing the developers a proven base system without restricting the freedom of developers. Due to the availability of all FOX CPU Board signal on the expansion connector and the large prototype area users can start right away with developing there own application or prototype.



Key Functions in Overview



- 5V/2A power supply
- Large prototype area
- Availability of all FOX CPU Board signals on Expansion connector
- UART interfaces COM0, COM2 with RS232 signal level, ESD protected, ideal for configuration, debugging and for any purpose
- Real Time Clock battery buffered
- MMC/SD card connector
- LCD interface
- LED for any purpose e.g. status indication

Using the Jackal Developer Board will reducing your effort and time to marked for your products. Additional extension modules e.g. LCD, ADC, IO, etc. will be available soon. Benefit when you are realizing your projects from the many advantages of the Jackal Developer Board by using it.

Jackal Developer Board

FOX CPU Connectors:

Two double row 2x20 and one single row 6x1 connectors are placed for simple mounting of the FOX CPU Board, including the console port COM0. The connectors are plated with gold for long-run corrosion protection. The Connectors are compatible to standard connector in 2,54 mm raster.

Power Supply:

The Jackal Developer Board has an onboard 5V regulator, which is protected against reverse input voltage polarity and short circuits. It can deliver DC current up to 2A.

LCD Connector:

One double row 2x10 connector for connecting an alphanumeric or graphical LCD.

Expansion connector:

Four double row 2x10 expansion connector for simple expansion of the Jackal Developer Board which are providing simple access to all signals available on J6 and J7 of the FOX CPU Board.

Prototype Area:

With means of the prototype area developer can easily extend the Jackal Developer Board with their own circuits.

MMC/SD:

The MMC/SD card connector does accept all memory cards in MMC and SD format. With the means of this connector the non volatile storage can be extended easy and cheap.

RTC:

The real time clock is buffer with a lithium ion battery for system timekeeping in case of power less. The Linux system time will be set automatically with the RTC time during the boot process.

RS232:

COM0 SUB-D9 female, console port for easy configuration and debugging.

COM2 SUB-D9 male, can be used for any purpose. It can be configured with all RS232 (RxD, TxD, DCD, DTR, DSR, RTS, CTS, RI) by means of jumper JP1.

Both interfaces are protected against electronic static damage and are capable to operate from 0,3 up to 230 kbps.

LED:

Can be used for any purpose from users application e.g. status indication.

FOX CPU Modul

Microprocessor:

Axis ETRAX 100 LX RISC 32 bits 100MIPS.

Memory:

32Mbytes of RAM, 8Mbytes of FLASH (*)

Interface:

One Ethernet port at 10/100Mb, two USB host 1.1 ports, placements for two extension connectors with 2x20 pin step 0.1" with IDE, SCSI, general I/O, I2C bus, serial and parallel ports (**).

Power supply:

5 Volt, 1 Watt.

Operating Systems:

Linux Kernel 2.4 o 2.6.

SDK:

Available for free under GPL license.

Languages:

GNU C, C++, Java, PHP, TCL, etc.

Available software:

Web server, FTP server, Telnet, SSH, SCP, PPP, drivers for USB, WiFi and Bluetooth dongles, modem GPRS, USB to serial converter, RTC, 1-Wire, I2C, etc.

Bootstrap:

<10 sec.

Firmware:

Remotely upgradeable through LAN, Web and FTP.

(*) Free memory depends on the configuration selected.

(**) Not all the interfaces can be used at the same time.

Further information can be found at
www.krieger-mis.de

Software driver are available at our homepage

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