

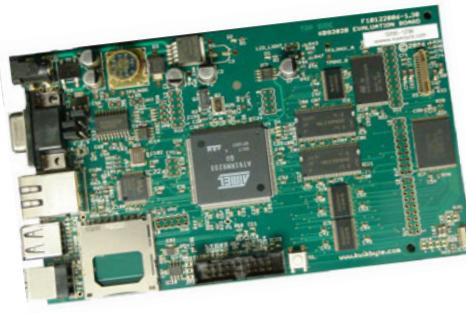
KB9202 Development Board

Complete Development Solution

The KB9202 is a complete single board computer that includes the processor, memory, and peripherals needed for ARM based product development. By supplying a popular microprocessor with the powerful ARM 920-T core, system SDRAM, non-volatile on-board storage, peripheral connectors, and signal expansion sites, the KB9202 enables rapid development of embedded applications and proof-of-concept models. With card edge connectors, the board is ready-to-use without the need for a base board or additional expansion modules.

The Right Components

The combination of high-performance and low-power consumption found in the AT91RM9200 processor make it ideally suited for embedded applications. Surrounded by numerous on-chip peripherals, this ARM-9 based system on chip replaces many devices found on legacy applications. The memory management unit (MMU), separate instruction and data caches, and 64 MB SDRAM enable the KB9202 to run today's embedded operating systems such as Linux and eCos as well as commercially-supported real time operating systems.



Quick-Start Development

The KB9202 ships with open source U-Boot boot loader, current version of Linux, and file system installed. Using the included free GNU tool chain, the engineering team can begin development immediately. Advanced debug tools utilize the board's fast Ethernet port and/or standard JTAG connector. Sample applications are included.

Product Design Plan

The inexpensive KB9202 is an excellent platform for prototype and proof-of-concept development. Add-on boards are available to support unique hardware requirements. During each stage of the design cycle, KwikByte can design and manufacture quick-turn, custom boards in any quantity.

Options

Viosoft Arriba Embedded Linux Edition for KB9202 IDE (Windows® or Linux edition)

Feature	Specification
Microcontroller	Atmel AT91RM9200, 200 MIPS ARM 920T with MMU 16kB instruction, 16kB data caches
Memory	64 MB SDRAM 16 MB NOR flash 32 MB NAND flash
Ethernet	10/100 Mbit
USB	2.0 host port (1) 2.0 device port (1)
SD/MMC	On-board connector
Serial channels	5 serial channels RS-232 (2) RS-485 (1) IrDA (1)
LCD	128 x 64, monochrome graphic
SPI flash	Expansion sites (2)
Other communications buses	I2C/TWI (1) SSC (1) SPI (1) External bus interface (EBI)
GPIO	30
RTC	On-chip
Programmable clocks	3
Timers/Counters/PWM channels	6
Typical power consumption	< 0.5W
Size	160mm x 100mm
Input voltage	9-30V AC/DC or USB device port via jumper
Other	Temperature sensor, user LEDs (3), JTAG port

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