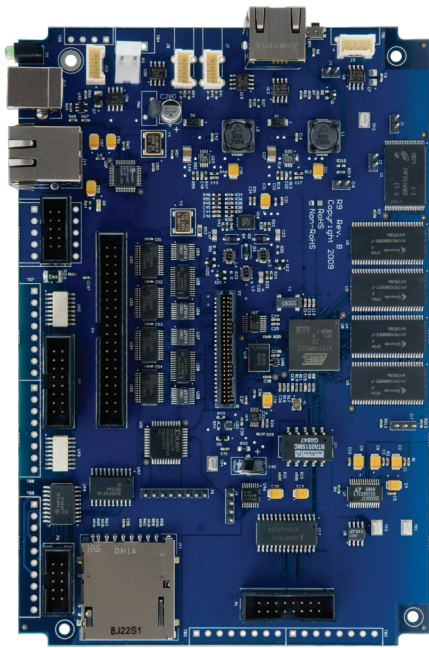


SBC-R9™ RISC Embedded Computing

Real-Time Embedded Computing with Industrial I/O



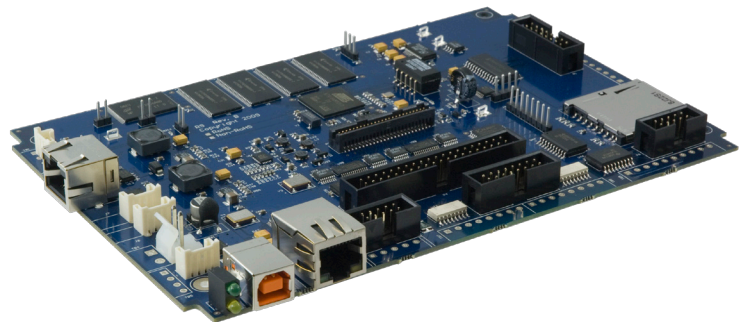
Features

- > Atmel AT91SAM9263 ARM® Processor
- > Up to 256MB SDRAM and 256MB Flash Memory
- > Dual SD/MMC Expansion Card Slots
- > LCD and Backlight Controller
- > Resistive Touchscreen Controller
- > 10/100 BaseT Ethernet
- > Two USB 2.0 Ports; USB Device Port
- > CAN Bus Interface
- > On-board Serial, Digital, and Analog I/O
- > Low Power Requirements
- > Compatible with Windows Embedded CE 6.0 and Linux

The SBC-R9 delivers RISC computing power with a wealth of I/O features and uses the latest embedded software environment.

The SBC-R9 is an application-ready platform for your next product design. The system is based on the 200MIPS Atmel AT91SAM9263 microcontroller boasting a 32-bit ARM® instruction set for maximum performance. With up to 256MB RAM

and 256MB Flash memory, the unmatched I/O features of the SBC-R9 extend the possible uses beyond traditional ARM applications.



To provide the fastest time to market, the Windows CE 6.0 BSP binary and low-level drivers for system I/O are included. Additionally, the SBC-R9 software package is equipped with the Sealevel Talos I/O Framework, which offers a high-level object-oriented .NET Compact Framework (CF) device interface. This interface provides an I/O point abstraction layer with built-in support for the specific needs of analog and digital I/O such as gain control and debouncing.

Perfect
for
Product
Development



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SBC-R9™ RISC Embedded Computing

Specifications

Processor

- > Atmel (AT91SAM9263) – 200MIPS RISC Processor
- > 16KB Data Cache, 16KB Instruction Cache, Write Buffer
- > Integrated Memory Management Unit (MMU)

Memory

- > Up to 256MB SDRAM
- > Up to 256MB Flash
- > Two SD Memory Card Sockets

LCD Controller

- > Supports Passive or Active Displays
- > 16-bit Color in TFT/STN Modes
- > Resolution Up to 2048 x 2048

Touchscreen Controller

- > Supports 5-wire Resistive Touchscreens

Bus Interfaces

- > 10/100 BaseT Ethernet
- > USB Device Port
- > Two USB 2.0 Ports
- > CAN Bus

Industrial I/O

- > Four Software Configurable RS-232/422/485 Ports
- > Dedicated RS-485 Expansion
- > Eight Optically Isolated Inputs (5 – 30V)
- > Eight Open-Collector Outputs (2 with PWM)
- > Eight Analog Inputs (12-bit or 16-bit)
- > Two 32-bit Quadrature Counters

Power

- > 7 – 30VDC Input

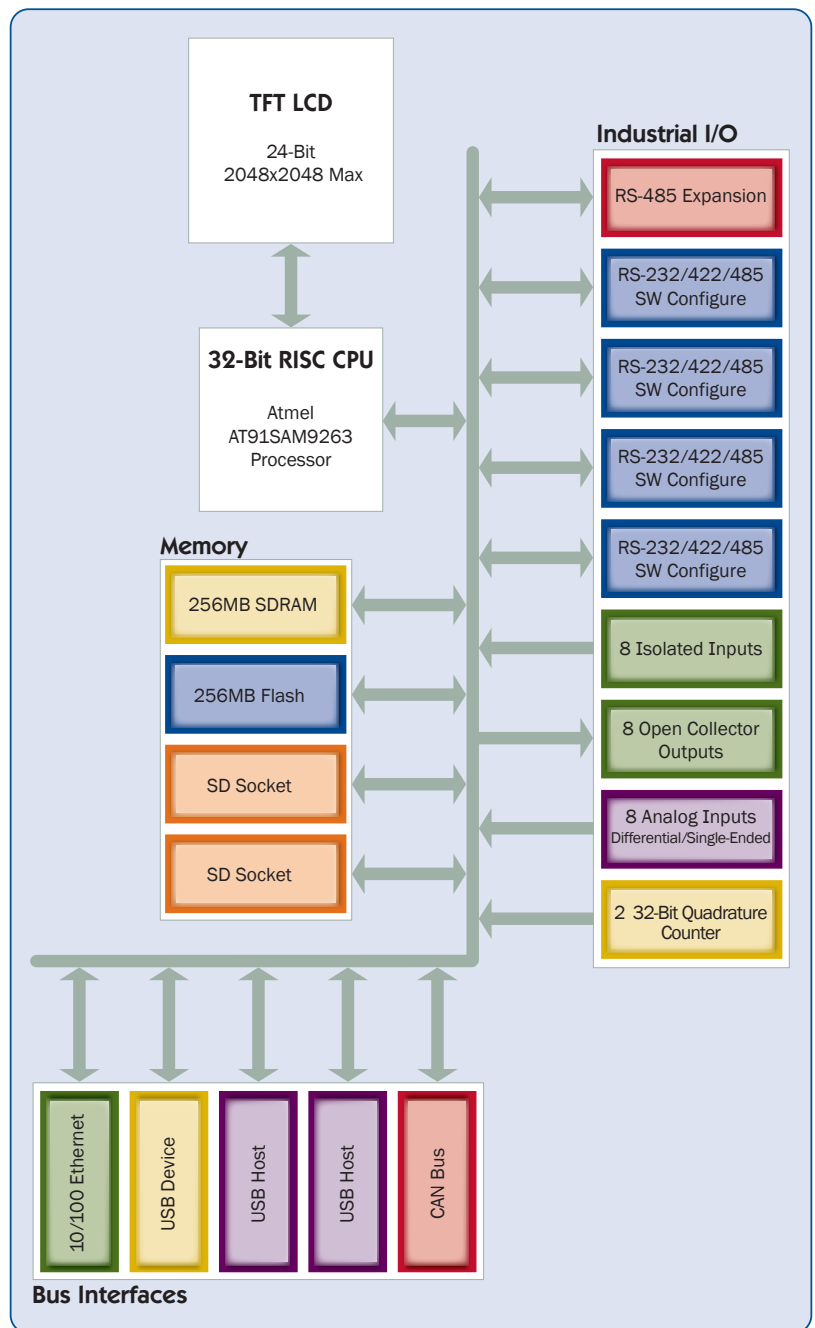
Environmental

- > Operating Temperature Range: -40°C – +85°C
- > Storage Temperature Range: -60°C – +150°C

Physical Dimensions

- > 7.3" (L) x 4.9" (W) x 0.7" (H)

SBC-R9 Block Diagram



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