SEALEVEL

Embedded Computing

The SBC-R9 is an application-ready system that provides RISC computing power using the latest CE 6.0 embedded software environment. The unmatched I/O features extend the board's possible uses beyond traditional RISC applications. 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.

Features:

- Standard I/O includes Ethernet, serial, USB, CAN Bus, digital and analog interface
- Perfect for embedded applications requiring small size, wide operating temperature range, and flexible I/O connectivity
- Windows CE 6.0 BSP binary and low-level drivers for system I/O are included for fastest time to market
- Housed in a rugged, small enclosure suitable for mounting almost anywhere
- Rated for a full -40° – +85°C operating temperature range

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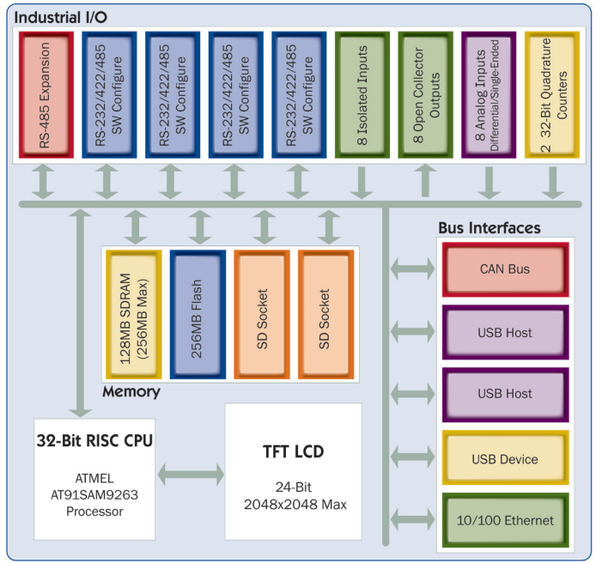
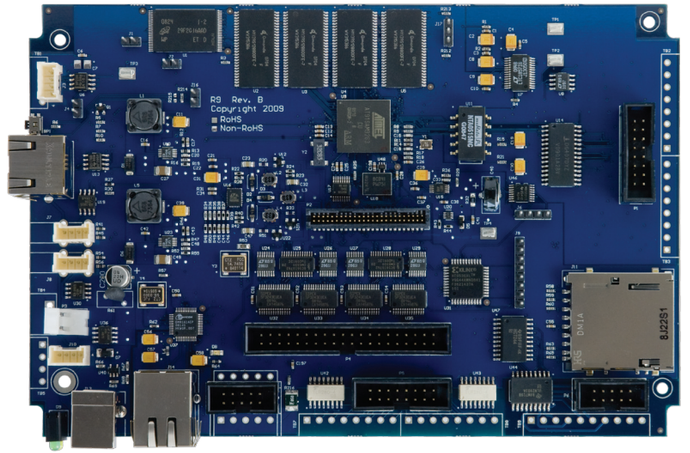
Real-Time Embedded Computing with Industrial I/O

- Small size, wide operating temperature, and flexible I/O connectivity make the SBC-R9 ideal for embedded applications.
- The Talos Compact I/O Framework provides a familiar experience for .Net developers. Application programming can begin immediately.
- Custom product design available.

R9 Block Diagram



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



SBC-R9 Features

- Atmel (AT91SAM9263) — 200MIPS RISC Processor
- Up to 256MB SDRAM and 256MB Flash Memory
- Dual SD/MMC Expansion Card Slots
- 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

Contact us today for more information about the SBC-R9 and receive a FREE t-shirt

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864.843.4343

Relio R9 Embedded I/O Server

The SBC-R9 is available in a rugged metal enclosure perfect for mobile and other space critical applications. Call today for more information on the Relio R9.

R9 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 Counter

Power
- > 7 — 30VDC Input

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

SEALEVEL
PO Box 830 Liberty, SC 29657

Postage

R9
small size ARM9
.NET framework
application ready
real time UNMATCHED I/O
wide operating temperature
embedded FLEXIBLE I/O CONNECTIVITY
TALOS RISC computing

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