

Optimized to help developers evaluate the operation and performance of the RMI Alchemy™ Au1100® processor.

Overview

The RMI Alchemy™ Solutions DBAu1100™ development board is an integrated hardware and software system that leverages the power of the RMI Alchemy™ Solutions Au1100® processor. It's a complete System-on-a-Chip (SoC) with an LCD controller that enables the development of low-power-consumption, high-performance Mobile Information Appliances (IAs), including Web pads, telematics, PDAs, and multimedia handheld computing devices.

The DBAu1100 development board is a turnkey solution that integrates a processor, memory and peripherals together on a single board, along with debugging assist features and software.

The DBAu1100 development board underscores RMI's commitment to providing customers with integrated systems that address their hardware and software needs, and positions RMI as a valued partner in the development of future Mobile IA solutions.

Highlights

Our DBAu1100 development board has been designed to help Mobile IA developers:

Test processor performance

The DBAu1100 development board is a fully integrated solution that includes both hardware and software, allowing developers to test the performance of the Au1100 processor in a variety of demanding Mobile IA applications.

Rapidly develop hardware and software solutions

The DBAu1100 development board has been optimized to help customers develop hardware and software solutions based on RMI's Au1100 processor. This system incorporates an Au1100 processor, SDRAM, AMD MirrorBit™ Flash memory, and an AMD 10/100 Ethernet PHY together onto a single board, along with debug assist software (including a YAMON monitor/debugger), drivers, and design files. The result is a fully integrated system that is ready to run customer-developed software, which in turn can help reduce the development time for new Mobile IA solutions.

Learn from best practices

RMI's DBAu1100 development board is a complete hardware and software solution that serves as a model for the development of future Mobile IA solutions.



Features

Memory Devices

- 64MB of 100MHz SDRAM
- 32MB AMD MirrorBit Flash memory (Am29LV640)
 - 16MB boot Flash memory
 - 16MB parameter Flash memory

Expansion

- Two hot-swappable PCMCIA slots
- Static memory interface connectors
- Two Secure Digital card connectors

Debug assist features

- YAMON monitor/debugger
- EJTAG connection to Au1100 processor
- Test points for key signals
- LEDs for easy notification of system activity
- Bank of 7-segment LEDs for software status
- User-settable switches

System Documentation

- User's guide
- Hardware datasheets
- Complete set of hardware design files, including schematics, layout, and BOM

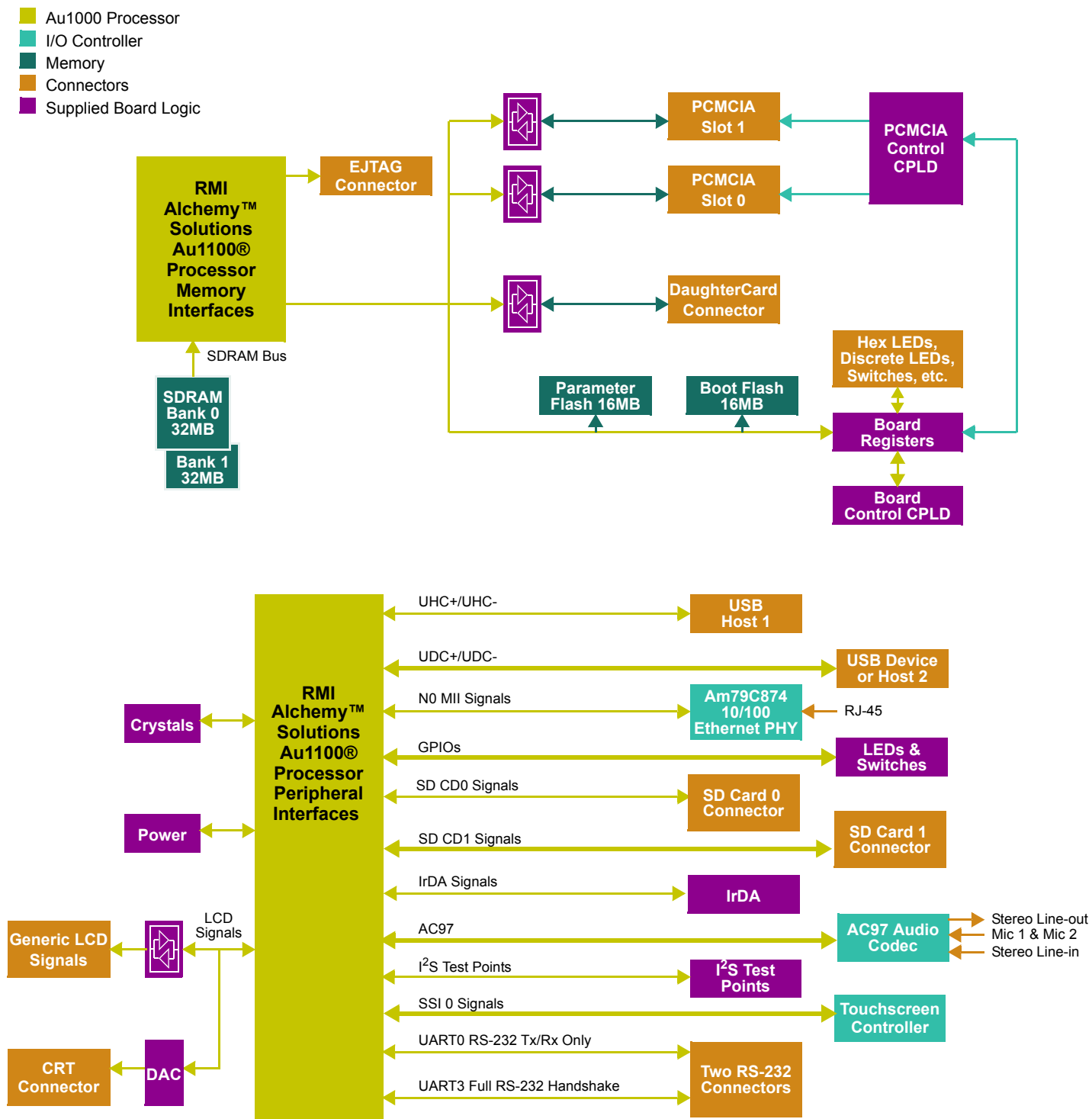
On-board Peripherals

- AMD 10/100 Ethernet PHY (Am79C874VC)
- USB host port
- USB device/host port
- AC97 audio CODEC stereo
- Two serial ports
- Touch screen Controller
- LCD to CRT circuitry, including CRT connector
- LCD and touch screen signals brought to generic connector
- 4MB/s IrDA

Software Included

- YAMON monitor/debugger in Flash memory
 - Assembly/disassembly
 - Memory modify/display
 - Register modify/display
 - S-record, download via serial and Ethernet
- Quick Start
- Peripheral initialization routines
- Diagnostics
- Example code
- Development tools
- Microsoft® Windows® CE.Net, VxWorks, embedded Linux demonstration images

RMI Alchemy™ DBAu1100™ Development Board



About RMI

Raza Microelectronics, Inc. (RMI®) is a fabless semiconductor company providing highly-integrated feature-rich products ranging from power-optimized System-on-a-Chip (SoC) solutions to High-Performance Processors for the Digital Consumer, Wireless, Networking and Security markets. RMI offers the most advanced and most complete MIPS-Based™ processing solutions with both 32/64-bit architectures supporting frequencies from 300MHz to 1.2GHz. The company is headquartered in Cupertino, CA with offices in Texas, India, Korea, Japan and China. More information about RMI can be found on the company's website at www.RazaMicro.com

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