

AMD Elan SC520 Controller Design Note #11



Downtime is not an option. 24/7 operation is mandatory in this remote and severe location.

Orchid Technologies

Bristol Babcock, a multi-million dollar industrial controller supplier, engaged Orchid Technologies to architect and design the main processor board in their new Programmable Logic Controller product line. Working with technology from AMD, and General Software, Orchid Technologies Engineering and Consulting, Inc. rapidly crafted a powerful, compact controller.

The Architecture

This highly compact Elan SC520 Based processor includes:

- AMD Elan SC520 Processor
- 128MB SDRAM in SODIM
- Dual RS232 Ports
- General Purpose IO to Backplane
- SC520 Debug Support
- 10/100 BaseT Ethernet
- 64K Battery Backed SRAM
- 16M Flash Disk Storage
- General Software Embedded-BIOS
- PC104 Plus Expansion

General Software Embedded-BIOS™

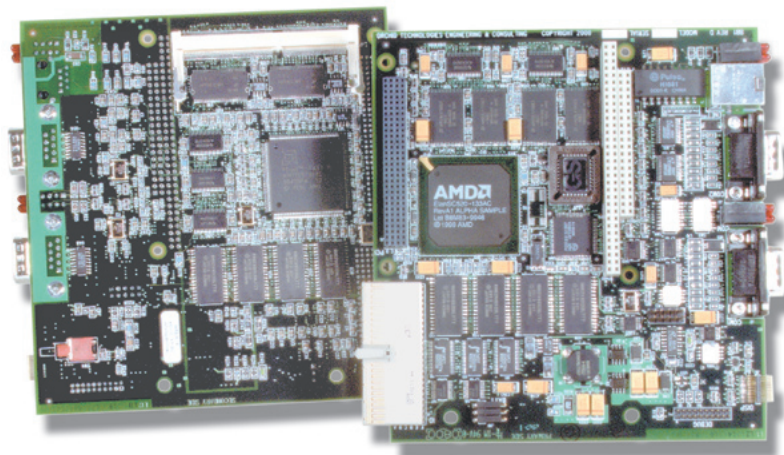
Embedded-BIOS from General Software is selected as the BIOS of preference for boards from most of the industry's important manufacturers including Intel, AMD, Cyrix and ST-Microelectronics. Embedded-BIOS is a full-featured BIOS for x86-based handheld, embedded and volume consumer electronics applications. With over 400 source-level configuration options, Embedded-BIOS is the most configurable BIOS in the world. Your design can include built-in support for ROM Disks, RAM Disks, Resident Flash Disks (RFD), power management, LCD Panel drivers, console redirection, Windows CE-launcher, configurable Setup Screen, and much more.

Technology Partnership

As a General Software Technology Partner, Orchid Technologies Engineering and Consulting, Inc. can customize Embedded-BIOS to your specifications.

Embedded x86 Design

Orchid Technologies excels in the design, prototype implementation and production of x86 compatible embedded computer solutions. Call Orchid today, we're ready to customize one for you too.



**ORCHID TECHNOLOGIES
ENGINEERING & CONSULTING INC.**

Custom Engineering From Concept to Production

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