

AppNote #1: Handheld Medical Device Sample Design

Overview

The Intrinsix AMBA SoC platform is a full computing platform which forms the processing core of a System-on-Chip IC. It is well suited for high integration, low power applications, and can be extended to include custom digital and analog processing for a target application. The platform is supplied with Intrinsix designed and proven IP. However any AHB/APB compliant peripheral (e.g. ARM prime cell) can easily be integrated into the design. Customer or Intrinsix designed Application Specific Logic can also be integrated into the platform. Read more about the AMBA SoC Platform at www.intrinsix.com

Application Note – Handheld Medical Device Sample Design:

Size: 400K logic gates
Technology: .35µm process
Memory: 4Kx32 SRAM, 32Kx32 Flash, 1Kx32 ROM
Cores: ARM7TDMI processor, UART, SPI, I2C, Timers

Intrinsix is a proud member of the ARM Connected Community



ARM, ARM7, AMBA and ARM Connected Community are all registered trademarks of ARM Ltd.

Additional Notes:

- **This is a sample design; the platform supports other ARM cores, configurations and silicon processes.**
- Full turnkey design and verification by Intrinsix Corp. Mixed Signal Design Solutions Group
- Very Low Power Requirements (< 25µa in sleep)
- Multi-mode: Sleep Mode, User Mode, Compute Mode
- 12-bit ADC, 8-bit DAC
- On-chip DC-DC Converter
- Custom Low Power RTC (low Vbat, <10µa)
- Custom LCD Controller and Tri-Level Output Drivers
- Embedded Software Design/Support

