Si890x Digital Isolator-Based, 10-Bit Isolated Monitoring ADC User's Guide

1. Introduction

The Si890x are isolated ADCs suitable for low-frequency analog data acquisition applications. These devices integrate an isolated 10-bit SAR ADC with I²C, UART, or SPI serial communication ports. Isolation ratings of 2.5 or 5 kV are available. See the Si8900 data sheet for details.

2. Kit Contents

The Si890xPWR-EVB Evaluation kit contains the following items:

- Si890xPWR-EVB evaluation module containing:
 - High voltage 110 V/220 V ac line current and voltage measurement circuit with 3.3 Vpp analog output signals
 - Si8900 Isolated 10-bit ADC with UART serial port
 - Si8901 Isolated 10-bit ADC with I²C serial port
 - Si8902 Isolated 10-bit ADC with SPI serial port
 - C8051F007 mixed-signal MCU master controller
 - · AC line-side bias supply

2.1. Hardware Overview

The Si890xPWR-EVB (Figure 1) demonstrates 50/60 Hz ac line voltage and current measurements. This EVB is housed in a plastic case with recessed connectors to protect against user electrical shock. The Si890x accepts a 110 or 220 Vac input and supports load currents up to 10 A (max). The on-board line side circuit interface measures ac voltage and current, which is then digitized by the Si890x on-chip 10-bit ADC. The resulting converted data is then transmitted through the output side isolated serial port to the on-board master processor (C8051F007 MCU). The C8051F007 converts the serial data back to analog format where it is available to the user at the low-voltage side of the evaluation module.

Key features for this EVB include the following:

- EVB module measures ac line voltage (110 Vac or 220 Vac at 50/60 Hz) and ac line current (10 A max)
- 10-bit ADC with three input channels and selectable, isolated serial ports: UART (Si8900) or I²C (Si8901) or SPI (Si8902)
- High common mode transient immunity (CMTI): 35 kV/µs (min), 50 kV/µs (typ)
- Industrial temperature operating range (-40 to +85 °C)
- 60-year isolation barrier life at rated working voltage
- Safety certified (pending)
 - CSA component notice 5A approval
 - IEC 60950, 61010, 60601
 - VDE/IEC 60747-5-2
 - UL1577 recognized: (Up to 5 kVrms for 1 minute)

Danger! High Voltage: Read instructions carefully. Do not operate this evaluation board unless it is housed in its plastic case and secured by the four screws.

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Jacob Fraden

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The Definitive Guide to ARM® Cortex®-M3 and Cortex®-M4 Processors Joseph Yiu, 2013-10-06 This new edition has been fully revised and updated to include extensive information on the ARM Cortex M4 processor providing a complete up to date guide to both Cortex M3 and Cortex M4 processors and which enables migration from various processor architectures to the exciting world of the Cortex M3 and M4 This book presents the background of the ARM architecture and outlines the features of the processors such as the instruction set interrupt handling and also demonstrates how to program and utilize the advanced features available such as the Memory Protection Unit MPU Chapters on getting started with IAR Keil gcc and CooCox CoIDE tools help beginners develop program codes Coverage also includes the important areas of software development such as using the low power features handling information input output mixed language projects with assembly and C and other advanced topics Two new chapters on DSP features and CMSIS DSP software libraries covering DSP fundamentals and how to write DSP software for the Cortex M4 processor including examples of using the CMSIS DSP library as well as useful information about the DSP capability of the Cortex M4 processor A new chapter on the Cortex M4 floating point unit and how to use it A new chapter on using embedded OS based on CMSIS RTOS as well as details of processor features to support OS operations Various debugging techniques as well as a troubleshooting guide in the appendix Topics on software porting from other architectures A full range of easy to understand examples diagrams and quick reference appendices Measurement Technology and Engineering Researches in Industry Prasad Yarlagadda, Yun Hae Kim, 2013-07-15 Selected peer reviewed papers from the 2013 2nd International Conference on Measurement Instrumentation and Automation ICMIA 2013 April 23 24 2013 Guilin China The Read-Out Controller **ASIC for the ATLAS Experiment at LHC** Stefan Popa, 2022-12-17 This thesis presents the complete chain from specifications to real life deployment of the Read Out Controller ROC ASIC for the ATLAS Experiment at LHC including the design of the FPGA based setup used for prototype validation and mass testing of the approximately 6000 chips Long lasting experiments like the ATLAS at the LHC undergo regular upgrades to improve their performance over time One of such upgrades of the ATLAS was the replacement of a fraction of muon detectors in the forward rapidities to provide much improved reconstruction precision and discrimination from background protons This new instrumentation New Small Wheel is equipped with custom designed radiation hard on detector electronics with the Read Out Controller chip being a mission critical element The chip acts as a clock and control signals distributor and a concentrator buffer filter and real time processor of detector data packets The described and deployed FPGA based test setup emulates the asynchronous chip context and employs optimizations and automatic clock and data synchronization The chip's tolerance to nuclear radiation was evaluated by recording its operation while controlled ultrafast neutron beams were incident to its silicon die Predictions for the operating environment are made A proposed implementation of an FPGA Integrated Logic Analyzer that mitigates the observed limitations and constraints of the existing ones is included Official Gazette of the United States Patent and Trademark Office, 2003 Handbook of Modern Sensors Jacob Fraden, 2015-10-15 This book presents a comprehensive and up to date account of the theory physical principles design and practical implementations of various sensors for scientific industrial and consumer applications This latest edition focuses on the sensing technologies driven by the expanding use of sensors in mobile devices These new miniature sensors will be described with an emphasis on smart sensors which have embedded processing systems The chapter on chemical sensors has also been expanded to present the latest developments Digital systems however complex and intelligent they may be must receive information from the outside world that is generally analog and not electrical Sensors are interface devices between various physical values and the electronic circuits that understand only a language of moving electrical charges In other words sensors are the eyes ears and noses of silicon chips Unlike other books on sensors the Handbook of Modern Sensors is organized according to the measured variables temperature pressure position etc This book is a reference text for students researchers interested in modern instrumentation applied physicists and engineers sensor designers application engineers and technicians whose job it is to understand select and or design sensors for practical systems Use of Services for Family Planning and Infertility, **United States** Gerry E. 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