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When the ADC receives the start command, SHA is placed in hold mode. The most significant bit (MSB) of the SAR is set to logic 1, and all other bits are set to logic 0. The output of the SAR is fed back to a DAC, whose output is compared with the incoming input signal.

N-bit successive approximation register (SAR) based ADC ...

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Double click the SAR ADC block to open the Block Parameters dialog box. The Number of bits is set to 10, and the SAR Frequency is 2e7 Hz. Check that in the Impairments tab, impairments are enabled. Set the Offset error to 0.65 LSB and Gain error to 0.65 LSB. The specifications are taken from the datasheet of Analog Devices 10-bit SAR ADC AD 7298.

Design and Evaluate SAR ADC - MATLAB & Simulink

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The MATLAB SAR Toolbox is a basic MATLAB library to read, write, display, and do simple processing of complex SAR data using the NGA SICD format. It has been released by NGA to encourage the use of SAR data standards throughout the international SAR community. The MATLAB SAR Toolbox complements the SIX library (C++) and SarPy (Python), which are implemented in other languages but have similar goals.

GitHub - ngageoint/MATLAB_SAR: A basic MATLAB library to ...

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When the ADC receives the start command, SHA is placed in hold mode. The most significant bit (MSB) of the SAR is set to logic 1, and all other bits are set to logic 0. The output of the SAR is fed back to a DAC, whose output is compared with the incoming input signal.

SAR ADC - Makers of MATLAB and Simulink - MATLAB & Simulink

How Analog to Digital Converter is work ? analog-to-digital converter (ADC, A/D, or A-to-D) is a system that converts an analog signal, such as a sound picke...

Analog to Digital Converter (ADC) (DAC) | MATLAB ...

This paper presents a toolbox for the behavioral simulation of SAR ADCs in Simulink®. The models include the most limiting circuit effects such as sampled thermal noise, capacitor mismatch, finite settling, comparator noise and offset. A user friendly interface is also included to allow study and high-level design of SAR ADCs, which is illustrated by means of a design example.

[PDF] Behavioral Modeling of SAR ADCs in Simulink ...

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