ADS7056 EVM Board

Quick Start Guide:
ADS7056EVM-PDK

The ADS7056 Performance Demonstration Kit (PDK) is ideal for evaluating and starting development with the ADS7056 analog to digital converter. This kit is comprised of an ADC evaluation board (EVM), a precision host interface board (PHI), a micro USB cable and board attachment screws. An easy-to-use PC-based application (GUI) is available to help evaluate the performance of the ADC on the ADS7056 EVM.

ADS7056EVM-PDK Features:
- ADS7056 14-bit, 2.5 MSPS SAR ADC
- REF1933 voltage reference for ADC AVDD supply
- OPA836 low-noise ADC driver for ADC input buffer
- TPS79147 low-dropout regulator for positive buffer supply
- LM7705 low-noise negative bias generator for negative buffer supply
- SN74AVC4T245 bus transceiver
- SMA input connector
- Micro USB PC interface

More information about Precision Analog SAR ADCs can be found at http://www.ti.com/precisionadc

The complete user guide for the kit can be found at http://www.ti.com/lit/pdf/sbau285

IMPORTANT: The ADS7056 performance demonstration kit software must be installed before the USB cable is plugged into the PC. The software may be downloaded from http://www.ti.com/tool/ADS7056EVM-PDK
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Performance Demonstration Kit

1. Download and install the ADS7056EVM-PDK GUI Software
   http://www.ti.com/tool/ADS7056EVM-PDK

   IMPORTANT: The ADS7056 performance demonstration kit software must be installed before the USB cable is plugged into the PC.

   NOTE: The Performance Demonstration Kit software supports Windows® 7 64-bit operating systems.

2. Connect the Precision Host Interface (PHI) Board to the ADS7056 EVM

   IMPORTANT: The included screws should be used to make a secure connection between the two boards to avoid damage.

3. Connect the micro USB cable to the Precision Host Interface Board and the PC

4. Launch the ADS7056EVM-PDK GUI software on the PC from the Start’ menu

   An input signal can be connected to the EVM’s SMA connector and conversion results can be viewed using the GUI software.

   The GUI software also include data analysis tools to evaluate the ADC’s DC, AC and settling parameters.

   Technical support for Precision ADCs can be found at http://www.ti.com/precisionadcsupport
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