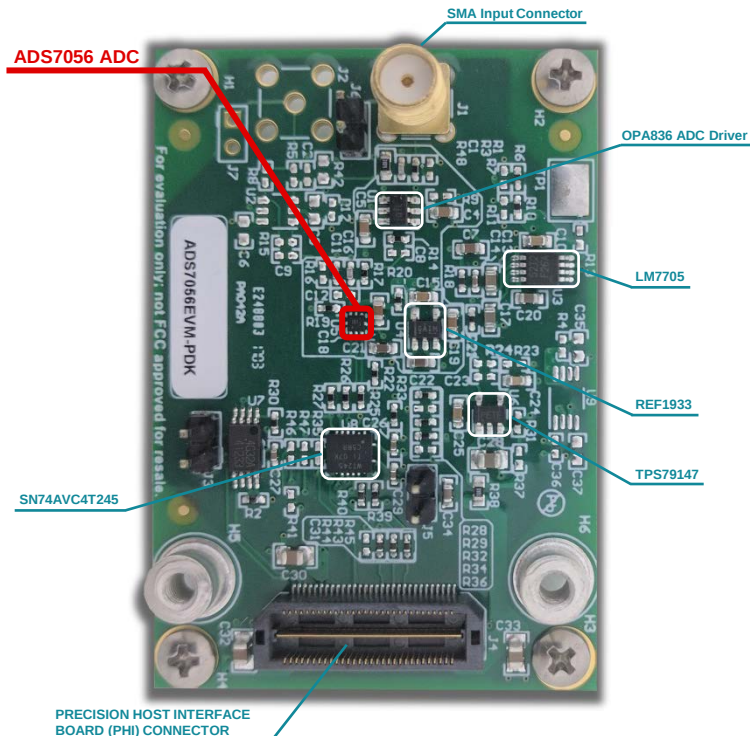


ADS7056 EVM Board



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

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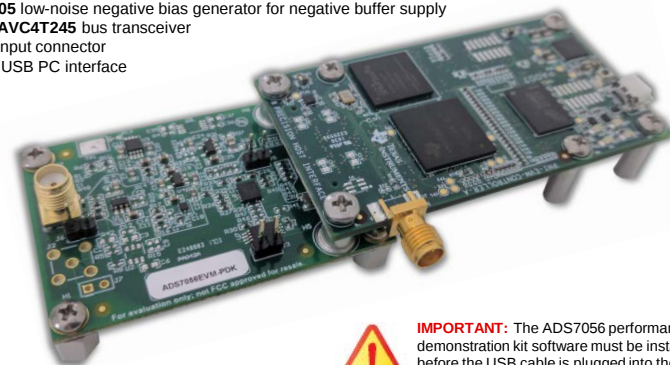
Quick Start Guide: ADS7056EVM-PDK



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 a 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



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>

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

Quick Start Guide: ADS7056EVM-PDK

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

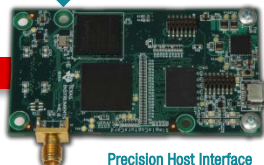
NOTE: Remove the standoff if installed on the PHI Board before connecting to the EVM



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



ADS7056 EVM Board



Precision Host Interface (PHI) Board

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.

INPUT SIGNAL SMA CONNECTOR



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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