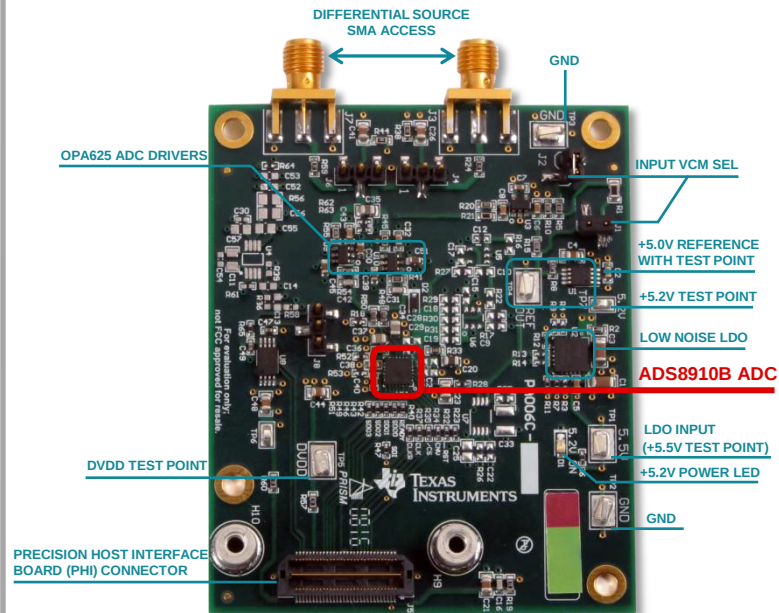


ADS8910B EVM Board



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

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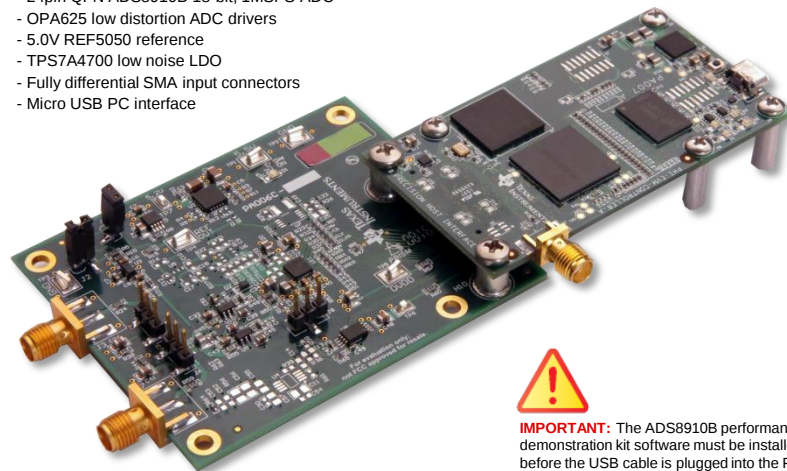
Quick Start Guide: ADS8910BEVM-PDK



The ADS8910B Performance Demonstration Kit (PDK) is ideal for evaluating and starting development with the ADS8910B precision 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. The EVM features two SMA connectors that support fully differential analog input signals for the ADC. The ADS8910B transfers data to the PHI board via the multiSPI™ digital interface. An easy to use PC based application (GUI) is available to help evaluate the performance of the ADC on the ADS8910B EVM.

ADS8910BEVM-PDK Features:

- 24pin QFN ADS8910B 18-bit, 1MSPS ADC
- OPA625 low distortion ADC drivers
- 5.0V REF5050 reference
- TPS7A4700 low noise LDO
- Fully differential SMA input connectors
- Micro USB PC interface



IMPORTANT: The ADS8910B 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/ADS8910BEVM-PDK>

The complete user guide for the kit can be found at <http://www.ti.com/lit/pdf/sbau268>

Quick Start Guide: ADS8910B SAR ADC

Performance Demonstration Kit

1

A) Watch the kit overview video

<http://www.ti.com/ADS8910Bkitvideo>



IMPORTANT: The ADS8910B performance demonstration kit software must be installed before the USB cable is plugged into the PC.

B) Download and install the ADS8910BEVM-PDK GUI Software

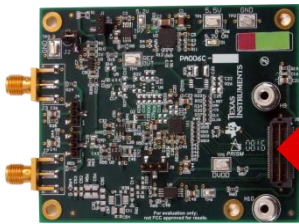
<http://www.ti.com/tool/ADS8910BEVM-PDK>



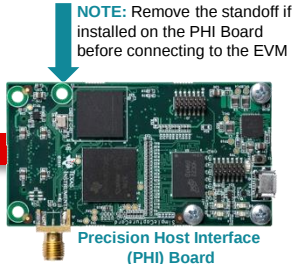
NOTE: The Performance Demonstration Kit software supports Windows® 7 and 8 64-bit operating systems

2

Connect the Precision Host Interface (PHI) Board to the ADS8910B EVM Board



ADS8910B EVM Board



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

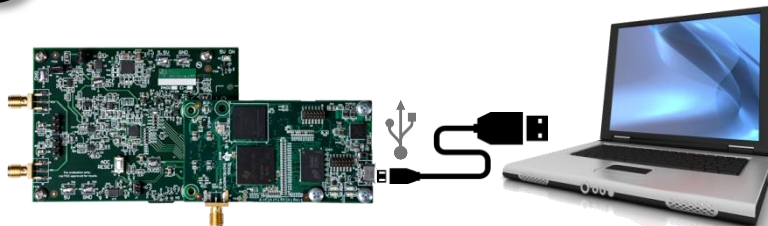
Precision Host Interface (PHI) Board



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 ADS8910BEVM-PDK GUI software on the PC from the 'Start' menu

A differential input signal can be connected to the EVM's SMA connectors and conversion results can be viewed using the GUI software.



DIFFERENTIAL SOURCE
SMA ACCESS

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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