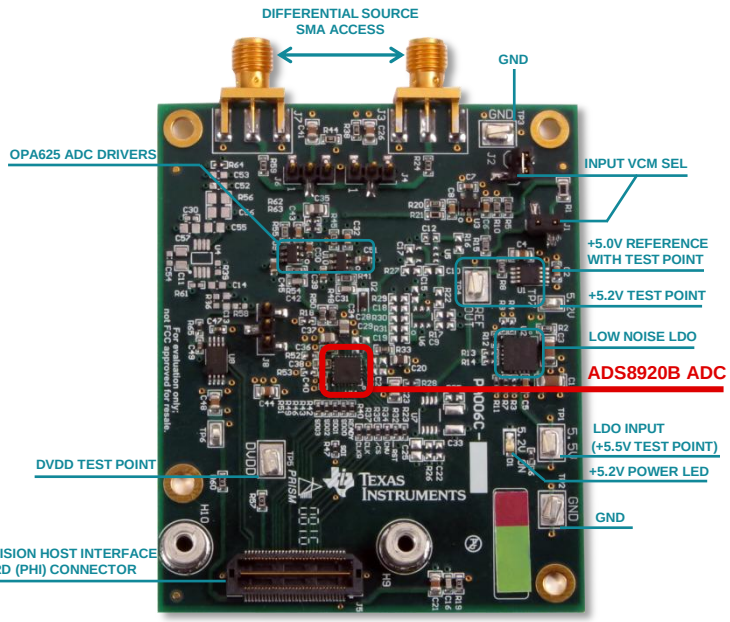
ADS8920B EVM Board



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

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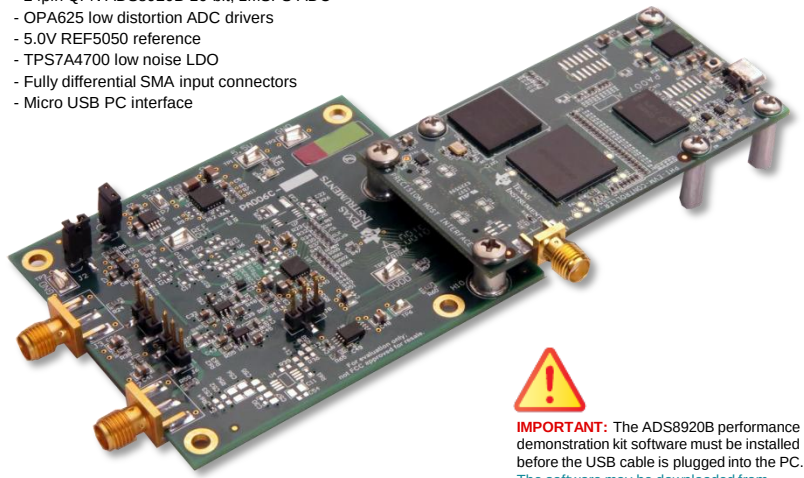
Quick Start Guide:
ADS8920BEVM-PDK

Texas Instruments

The ADS8920B Performance Demonstration Kit (PDK) is ideal for evaluating and starting development with the ADS8920B 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 ADS8920B 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 ADS8920B EVM.

ADS8920BEVM-PDK Features:

- 24pin QFN ADS8920B 16-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 ADS8920B 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/ADS8920BEVM-PDK

The complete user guide for the kit can be found at http://www.ti.com/lit/pdf/sbau270

Quick Start Guide: ADS8920B SAR ADC

Performance Demonstration Kit

1

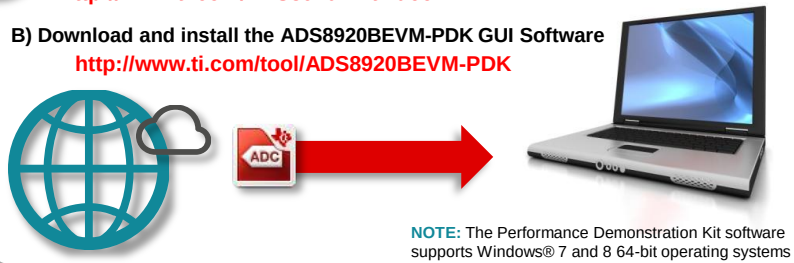
A) Watch the kit overview video

http://www.ti.com/ADS8910Bkitvideo

IMPORTANT: The ADS8920B performance demonstration kit software must be installed before the USB cable is plugged into the PC.

B) Download and install the ADS8920BEVM-PDK GUI Software

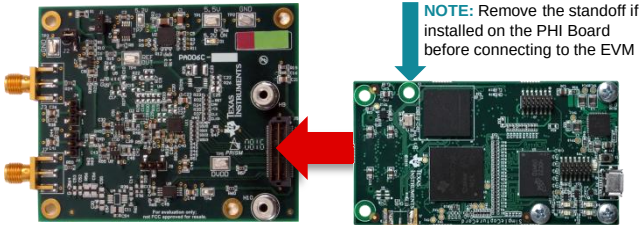
http://www.ti.com/tool/ADS8920BEVM-PDK



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 ADS8920B EVM Board



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

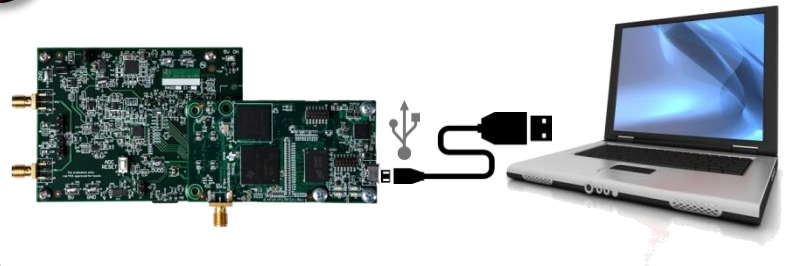
ADS8920B EVM Board

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

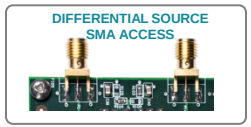
Connect the micro USB cable to the Precision Host Interface Board and the PC



4

Launch the ADS8920BEVM-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.





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

TI E2E™ Community Technical support for Precision ADCs can be found at http://www.ti.com/precisionadcsupport

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