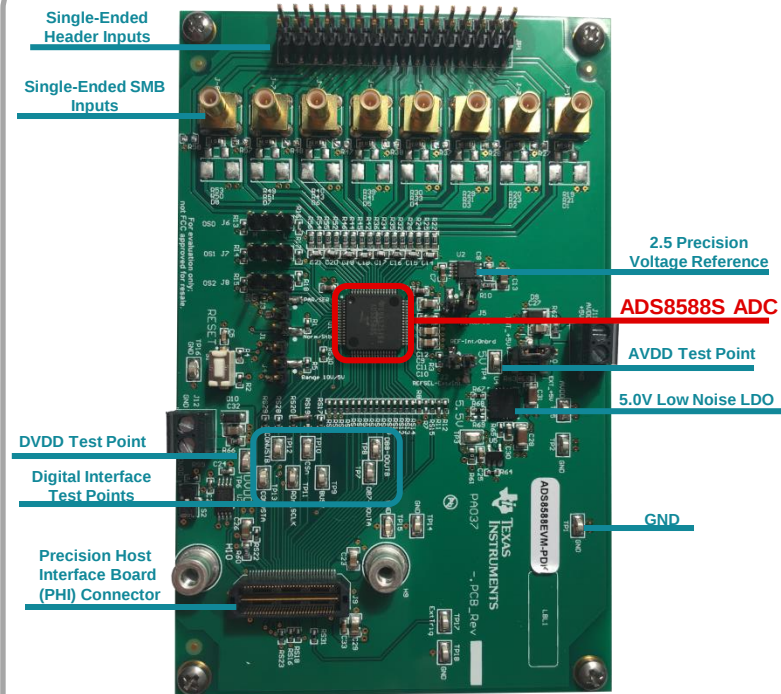


ADS8588S EVM Board



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

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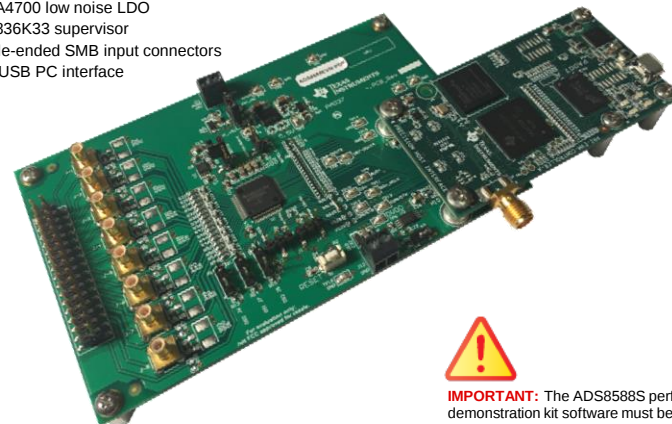
Quick Start Guide: ADS8588SEVM-PDK



The ADS8588S Performance Demonstration Kit (PDK) is ideal for evaluating and starting development with the ADS8588S precision 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. The EVM features eight SMB connectors that support single-ended analog input signals for the ADC. The ADS8588S transfers data to the PHI board via SPI. An easy to use PC based application (GUI) is available to help evaluate the performance of the ADC on the ADS8588S EVM.

ADS8588SEVM-PDK Features:

- 64 Pin LQFP ADS8588S 16-bit, 8 ch SIMSAM, 200 kSPS/ch ADC
- REF5025 precision voltage reference
- TPS7A4700 low noise LDO
- TPS3836K33 supervisor
- 8 single-ended SMB input connectors
- Micro USB PC interface



IMPORTANT: The ADS8588S 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/ADS8588SEVM-PDK>

The complete user guide for the kit can be found at <http://www.ti.com/lit/pdf/sbau278>

Quick Start Guide: ADS8588S SAR ADC

Performance Demonstration Kit

1



IMPORTANT: The ADS8588S performance demonstration kit software must be installed before the USB cable is plugged into the PC.

Download and install the ADS8588SEVM-PDK GUI Software

<http://www.ti.com/tool/ADS8588SEVM-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 ADS8588S EVM Board



ADS8588S EVM Board

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



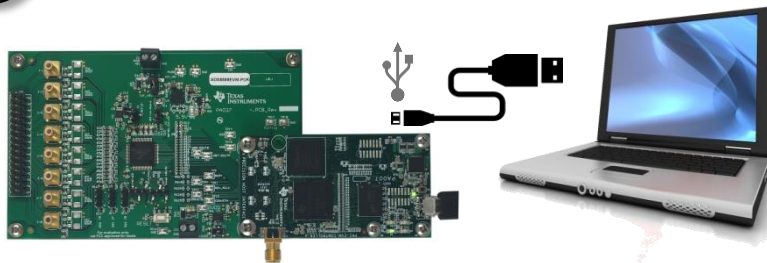
Precision Host Interface (PHI) Board



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 ADS8588SEVM-PDK GUI software on the PC from the 'Start' menu

A single-ended input signals can be connected to the EVM's SMB connectors and conversion results can be viewed using the GUI software.



8, Single-Ended SMB Input Channel Access

16 pin, dual-row header Input Channel Access



TI E2E
Community

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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