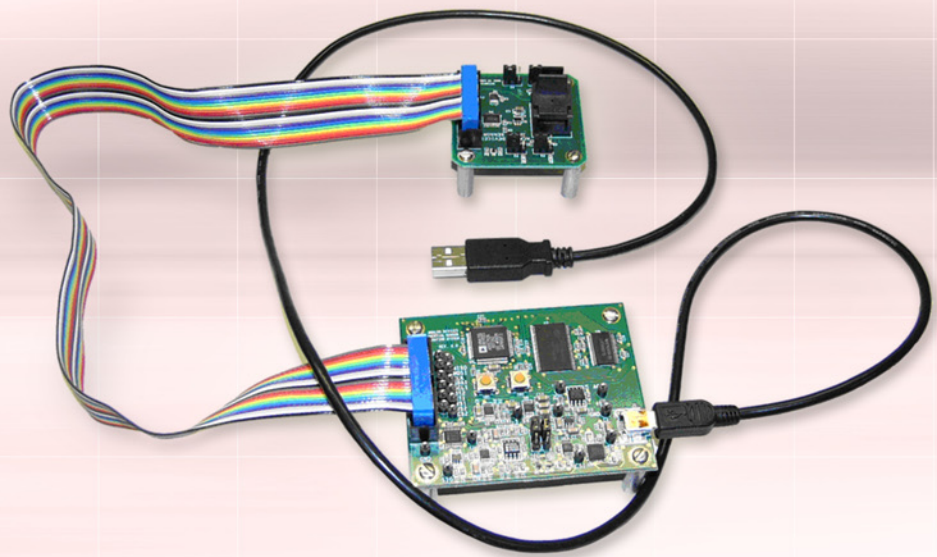


iMEMS ADXL345 Inertial Sensor Evaluation System



Features

- Ultralow power ADXL345 accelerometer
- Universal inertial sensor motherboard
- DUT specific satellite board for evaluation
- Standard USB cable for power and communications
- PC-based graphical user interface
- User reprogrammable firmware capability

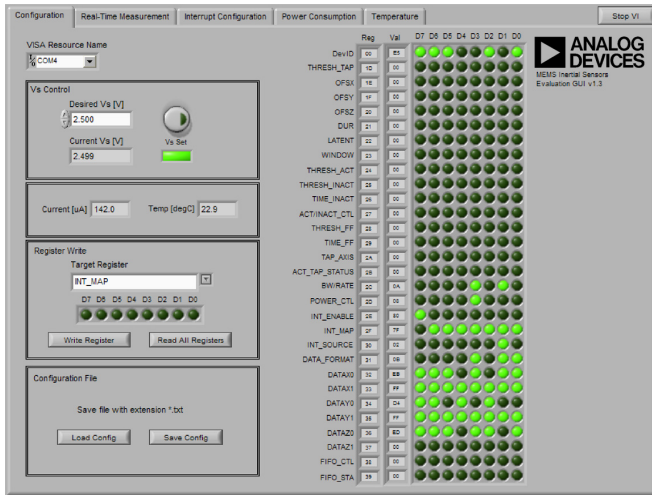
Overview

The iMEMS® ADXL345 inertial sensor evaluation system is a complete system that provides a fast and easy way to configure, evaluate, and analyze the performance characteristics and embedded features of the ultralow power digital 3-axis ADXL345 accelerometer.

Description

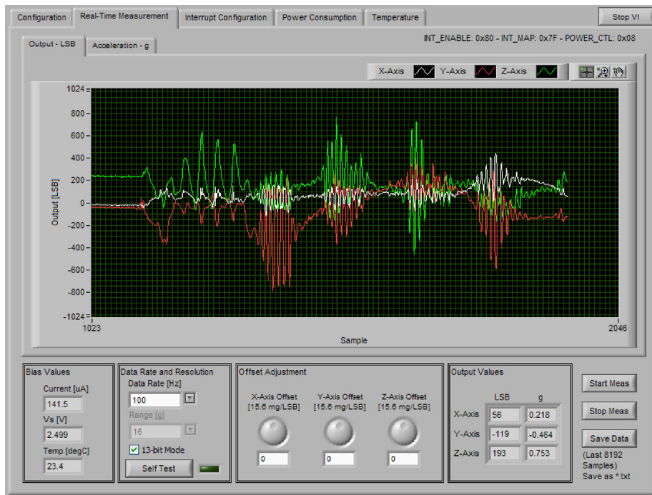
This evaluation system hardware consists of two interconnected PCBs that are powered and connected to a PC via a standard USB cable. The larger board is a universal main PCB that is common to all ADI inertial sensor evaluation systems. The smaller PCB accommodates the socket for the specific ADI accelerometer to be evaluated. When evaluating a different ADI inertial sensor, only the satellite PCB needs to be changed out.

The evaluation system includes software that sets up a graphical user interface (GUI) tool that allows users to configure bandwidth, interrupts, and power modes, as well as measure and display every significant performance parameter (acceleration in three axes, interrupt status, power consumption, performance over temperature, etc.). Data logging utilities allow users to capture data in comma separated value (.csv) format for offline analysis using spreadsheet utilities or other standard tools.

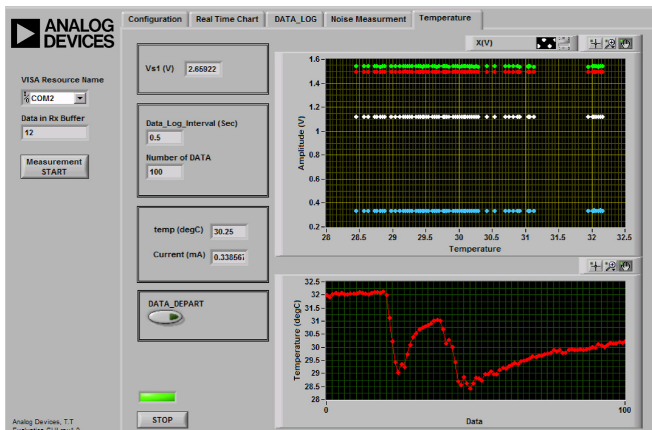


Configuration GUI.

Ordering Summary
 Evaluation system (universal motherboard and satellite board): EVAL-ADXL345Z-M
 Satellite board only: EVAL-ADXL345Z-S



Real-time measurement GUI.



Temperature performance GUI.

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