LABVIEW EMBEDDED MODULE FOR ANALOG DEVICES BLACKFIN PROCESSORS

PRODUCT DESCRIPTION

Overview

The National Instruments LabVIEW™ Embedded Module for Analog Devices Blackfin® Processors is a comprehensive graphical development environment for embedded design. Jointly developed by ADI and NI, this module seamlessly integrates the LabVIEW Development Environment and Blackfin Embedded Processors. Included in the LabVIEW Embedded Module is everything required to develop your application quickly in LabVIEW and ultimately target a custom-developed hardware solution, taking designs from concept to production in a single integrated development environment. By using this approach, engineers and scientists can achieve faster development times, lower development cost, and still deliver a high performance embedded processing solution.

Graphical Design for Embedded Systems

This module builds on NI LabVIEW embedded technology, which facilitates data flow graphical programming for embedded systems, and includes hundreds of analysis and signal processing functions, integrated I/O, and an interactive debugging interface. With the NI LabVIEW Embedded Module for ADI Blackfin Processors, you can easily access essential VisualDSP++® specific compiler options such as the ability to enable cache, optimize linking, and view live front-panel updates via JTAG. To help you debug those challenging designs, you can connect the host development PC to your evaluation hardware or end product using an ADI JTAG emulator. LabVIEW includes a wide array of built-in visualization features, including tools for charting and graphing real-time data and reconfiguring attributes of your data presentation. Furthermore, you can dynamically tune your application at run time through live front-panel controls.

Highlights of 2009 release

    Front panel (hosted on the LCD panel)

    Allows a User Interface to display and interact with embedded application

    Multi-core support (BF561)

    iSensor support

    ADIS16251 – Programmable Gyroscope

    ADIS16003 – Dual Axis ± 1.7g Accelerometer

Learn More: What Customers are Saying

Test Online the LabVIEW Embedded Module for Blackfin Processors: LabVIEW Embedded for Blackfin Processors

VLD: Introduction to the NI LabVIEW Embedded Module for ADI Blackfin Processors

Evaluation Kit:

Part Number: VDSP-LABVIEW-EVAL

Evaluating the module has never been easier with this comprehensive 60-day fully featured evaluation platform. The package includes the LabVIEW 2009 Embedded Module for Blackfin, VisualDSP++ 5.0, a BF537 EZ-KIT Lite® schematics, cables, and headphones.

Full Development Kit:

Part Number: VDSP-LABVIEW-EVAL

The package includes the NI LabVIEW 2009 (Full Development System), LabVIEW 2009 Embedded Module for Blackfin, VisualDSP++ 5.0, a BF537 EZ-KIT Lite schematics, cables, headphones and a one year National Instruments technical support subscription.

For additional information, contact your local Analog Devices Sales Office or Distributor.