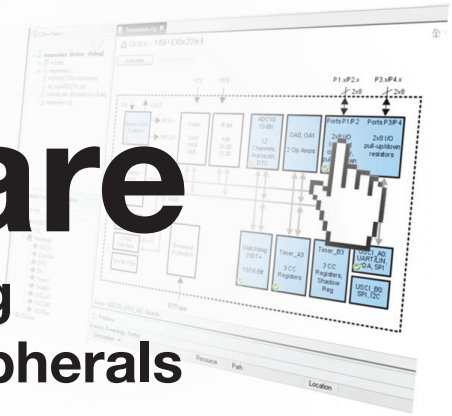
Grace™ Software

Graphical User Interface for enabling and configuring MSP430™ MCU peripherals



TEXAS INSTRUMENTS

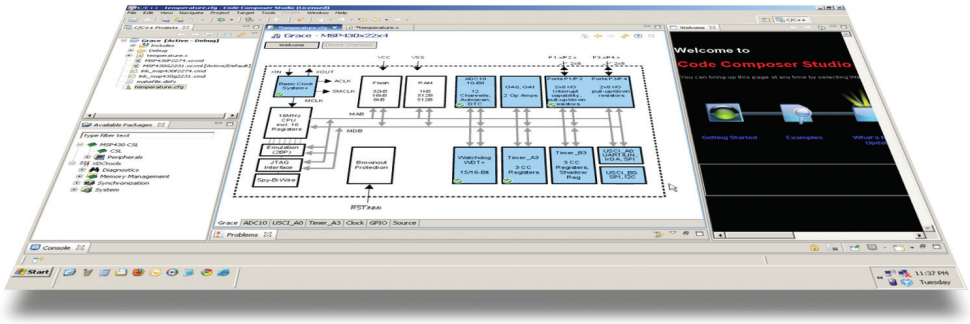
Product bulletin

Fully harness MSP430 MCUs integrated analog and digital peripherals with Grace Software

Enable and configure ADCs, DACs, timers, clocks, serial communication interfaces and more, by interacting with buttons, drop-down menus, and text fields. Navigate through the MSP430 MCUs highly integrated peripheral set like a pro.

Grace software supports all MSP430F2xx and G2xx Value Line MCU devices

This means it supports the MSP430 MCUs most popular tools such as MSP-EXP430G2 LaunchPad, eZ430-F2013, eZ430-RF2500 and other tool kits.



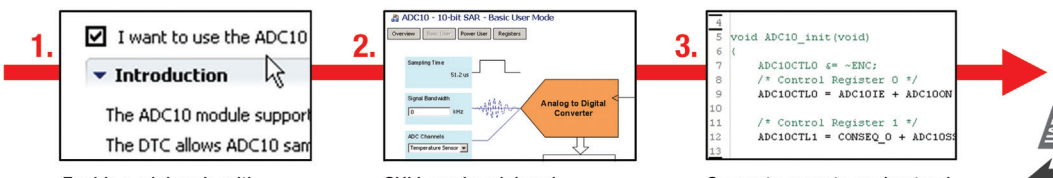
Key features

- Now included in Code Composer Studio™ IDE version 5
- Also available as a stand-alone tool for other IDE support
- Supports all MSP430F2xx and G2xx value line devices
- Enables graphical configuration of MSP430 peripherals including:
  – ADCs, OpAmps, timers, clocks, comparators, serial communication modules and more!
- Basic user, power user and register views are offered
- Fully commented, easy-to-understand and editable C code is generated

Seamless integration into TI's eclipse-based Code Composer Studio™ software

Grace software generates easy-to-understand C code, which is directly inserted into your active project. This seamless integration into the integrated development environment (IDE) allows the Grace generated code to be debugged and downloaded into your MSP430 microcontroller just as if it was handwritten.

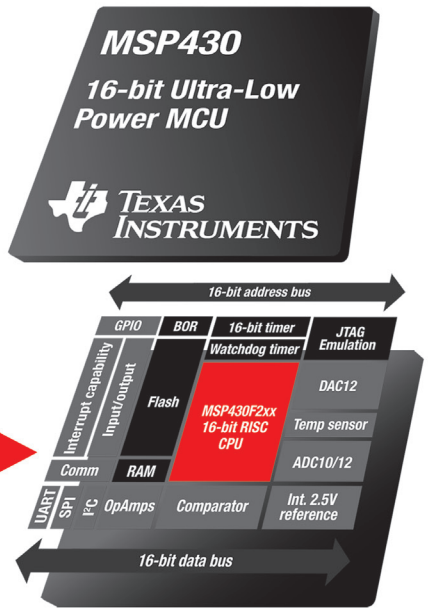
Grace software is now also available as a separate install. This means Grace-generated code can be easily imported into other development tools.

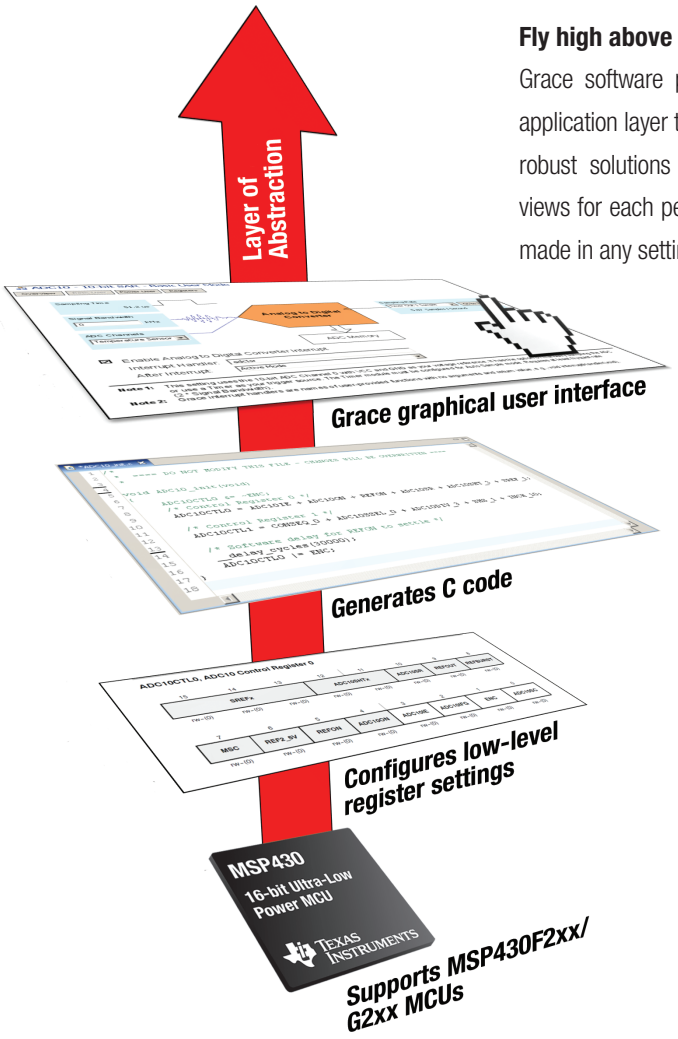


Enable peripherals with a single click.

GUI based peripheral configuration.

Generate easy-to-understand C code.



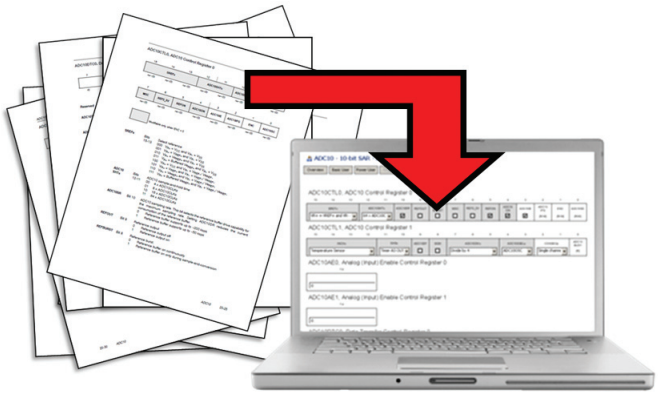


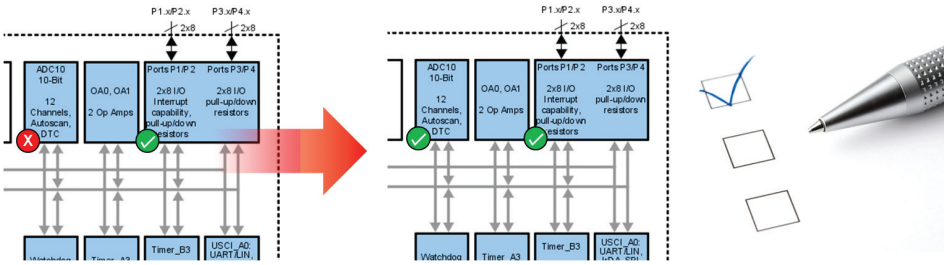
Fly high above the bits and bytes of low level register settings

Grace software provides various levels of abstraction, which allows users to focus more on the application layer than low-level peripheral configuration. This enables developers to create high quality, robust solutions in less time. Grace software includes a Power User, Basic User, and Register views for each peripheral, providing different levels of abstraction depending on your needs. Changes made in any setting in one view are automatically reflected in the other views.

Generate easy-to-understand C code

The peripheral initialization code that Grace software produces is fully commented, readable and editable. Accomplish what used to take hours, and start working on your application layer within minutes of starting up Grace software.





Integrated tool tips guide peripheral setup

Grace software is based directly from the MSP430 MCU user's guides and datasheets. As users explore the various views of Grace software, developers learn about the ins and outs of the MSP430 MCUs integrated peripherals. Users are invited to hover over interactive elements to get detailed information about the MSP430 MCU being programmed.

Get started quickly and learn as you go

As developers interact with Grace software, instant notifications ensure that the enabled MSP430 MCU peripherals are being properly configured. Helpful hints and popups point out errors, which prevents erroneous settings, conflicting configurations and peripheral collisions.This immediate feedback saves hours of development time,and quickens your time to market!

For more information visit,

www. ti.com/grace

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