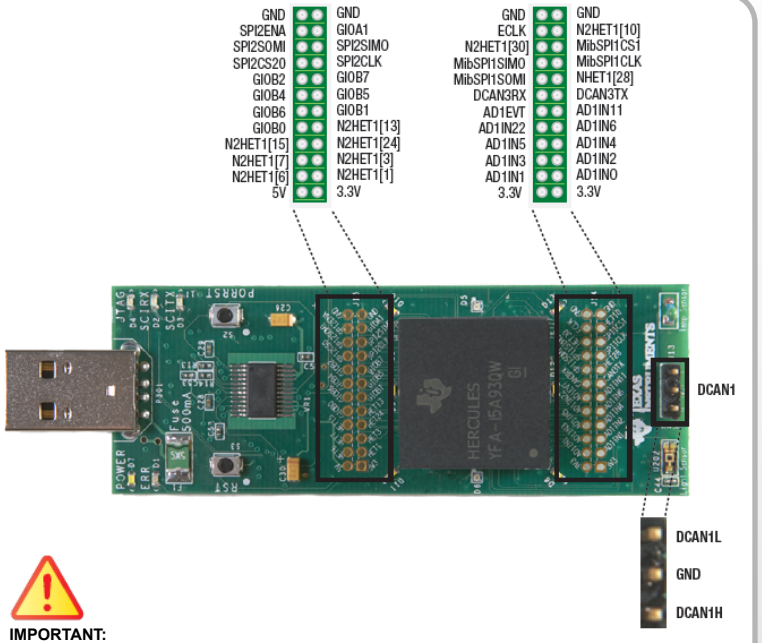
Communication and Peripheral Pin Access:

Several key peripheral pins of the MCU are accessible on the USB Stick via two rows of test points. The USB Stick also features a CAN transceiver on the DCAN1 communication interface and is accessible via a connector on the board. The communication and peripheral pins accessible on the USB Stick are shown in the diagram below.



IMPORTANT:
All applications run on the Development Stick should be limited to 100MHz HCLK Speed

More information about Hercules RM4 MCUs can be found at http://www.ti.com/rm4

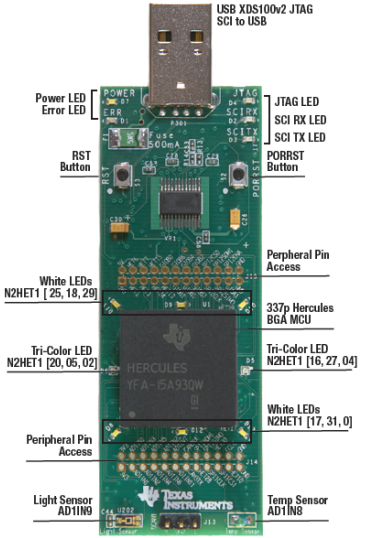
SPNU591

Quick Start Guide: Hercules™ RM48 USB Stick Development Kit

The Hercules™ USB Stick is ideal for evaluating and starting development with the RM48x series of safety microcontrollers. It is powered by a PC's USB port and features on-board XDS100v2 JTAG emulation along with access to several key peripheral pins. This quick start guide assumes that the user will be using the Code Composer Studio™ IDE for development.

Hercules USB Stick Key Features:

- 337p BGA Hercules MCU
- On Board USB XDS100v2 JTAG
- On Board SCI to USB Serial
- 6 White N2HET LEDs
- 2 Tri-Color (RGB) N2HET LEDs
- Ambient Light Sensor
- Temperature Sensor
- CAN Transceiver
- 3 Axis Accelerometer
- PORRST and RST Buttons



IMPORTANT: Code Composer Studio™ IDE must be installed before the USB Development Stick is plugged into the PC
All applications run on the Development Stick should be limited to 100MHz HCLK Speed
NOTE: The battery saver must be removed from the included flashlight before use.

Quick Start Guide:
Hercules Microcontroller USB Stick

1

A) Install Code Composer Studio IDE from the included DVD

IMPORTANT: Code Composer Studio must be installed before the Hercules Development Kit software

B) Install the Hercules Development Kit software from the included DVD

NOTE: The Hercules Development Kit software supports Windows® 7 and XP(SP3) operating systems

2

Plug in the USB Stick into a USB port on the PC. The PC will recognize the board as an XDS100v2 JTAG Emulator and a USB Serial Port.

IMPORTANT: Code Composer Studio must be installed before the USB Stick is plugged into the PC

NOTE: Pressing the PORRST button on the board may be required before programming the MCU's flash memory

3

Run the Hercules Demo software
The software will be available in:

→ All Programs →

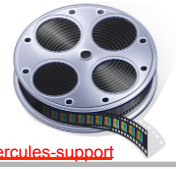
Texas Instruments → Hercules →

Hercules Safety MCU Demos

4

Watch the Hercules 'How-To' tutorial videos at:

http://www.ti.com/herculestraining



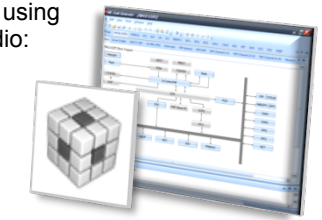
TI E2E™ Community

Technical support for Hercules MCUs can be found at www.ti.com/hercules-support

5

Create your own Hercules application using HALCoGen and Code Composer Studio:

Additional example software for Hercules MCUs can be found in the HALCoGen application under 'Help → Help Topics → Examples'
Or in the 'Examples' section of the Code Composer Studio TI Resource Explorer.



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