Quick Start Guide: TMS570 Microcontroller Development Stick

TEXAS INSTRUMENTS

The TMS570 Microcontroller Development Stick is ideal for evaluating and starting development with the TMS570 family of devices. It is powered by a PC's USB port and features on-board USB JTAG emulation along with access to several key peripheral pins.

TMS570 Microcontroller Development Stick Features:

- 144p QFP TMS570LS20216 MCU
- USB powered
- On board USB XDS100v2 JTAG
- On board SCI to USB serial
- Access to key peripheral pins
- 6 NHET LEDs
- mbient light sensor
- Temperature sensor
- CAN transceiver

NHET[10]	LIN2RX
NHET[12]	LIN2TX
NHET[14]	GIOA[3]
NHET[16]	GIOA[2]
NHET[18]	GIOA[1]
NHET[20]	GIOA[0]
MibSPI1SOMI	ECLK
MibSPI1SIMO	AD1IN0
MibSPI1CLK	AD1IN1
MibSPI1ENA	AD2IN1
MibSPI1CS0	AD2IN0

USB XDS100v2 JTAG SCI to USB
JTAG LED
SCI TX LED
SCI RX LED
nPORRST button
144p (QFP) TMS570LS20216 MCU
|NHET[3..5] LEDs|
Power LED
Error LED
NHET[0..2] LEDs
Temp Sensor
Light Sensor
CAN1H
CAN1L

IMPORTANT: Code Composer Studio™ 4.x or the TMS570 Safety MCU Demo software must be installed before the USB Development Stick is plugged into the PC! All TMS570 applications run on the Development Stick should be limited to 100MHz HCLK speed.
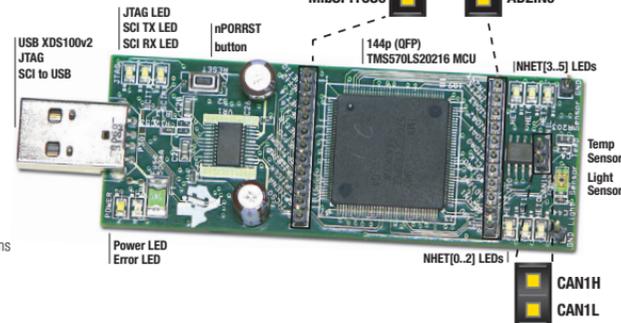
Quick Start Guide:
TMS570 USB Development Stick Safety MCU Demos

1

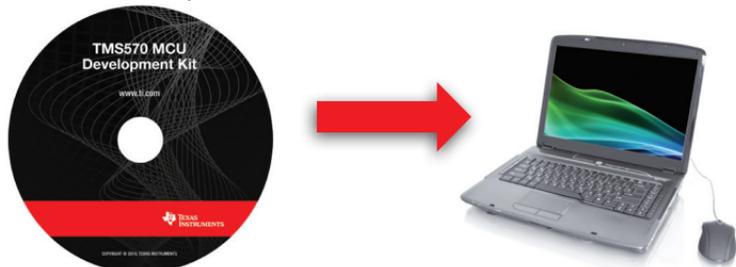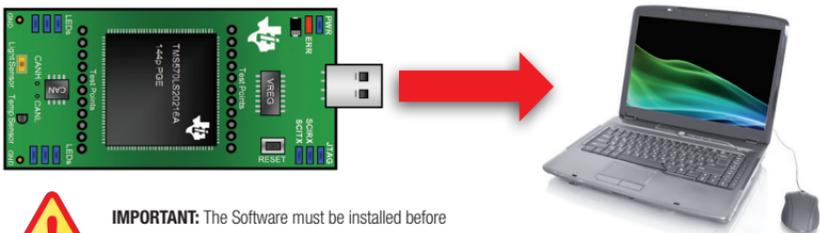Install the TMS570 MCU Development Kit Software. A full install is required to ensure that all demo features of the MCU Development Stick are available.
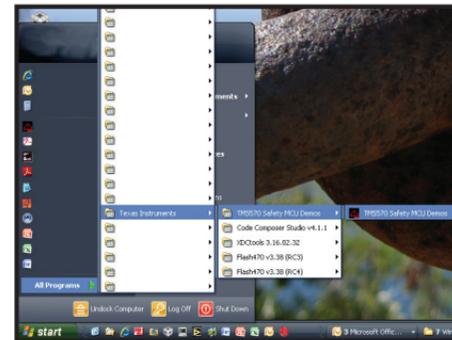

2

Plug the MCU Development Stick into a USB port on the PC. The USB extension cable provided with the kit may be used.

IMPORTANT: The Software must be installed before the USB Development Stick is plugged into the PC!

3

Start the TMS570 Safety Demo Software. In Windows XP, the software will be available in 'Start->All Programs-> Texas Instruments-> TMS570 Safety MCU Demos.

4

Launch any of the TMS570 Demos from the launch pad. Internet access is required to view the device documentation. Code Composer Studio™ software must be installed to view the microcontroller source code.