RemoTI^{TM} CC2530/CC2533 Development Kit - Quick Start Guide

STEP 1 – Download and Install the RemoTI Software

This Quick Start Guide provides instructions for software installation, configuration and the procedure to run the out-of-the-box ZigBee RF4CE remote control demo

The RemoTI^{TM} development kit components are pre-programmed with the appropriate sample applications

The demo requires a PC tool and driver that are included in The RemoTI^{TM} software installer. To register and download, go to http://focus.ti.com/docs/toolsw/folders/print/remoti.html and download **RemoTI-CC253xDK-1.2 exe (SWRC131)**

Install the software by following the install instructions. The default Installation directory is C:\Texas Instruments\RemoTI-CC253xDK-1.2\...

Remote Control

Target Board

CC Debugger

CC2531 USB Dongle

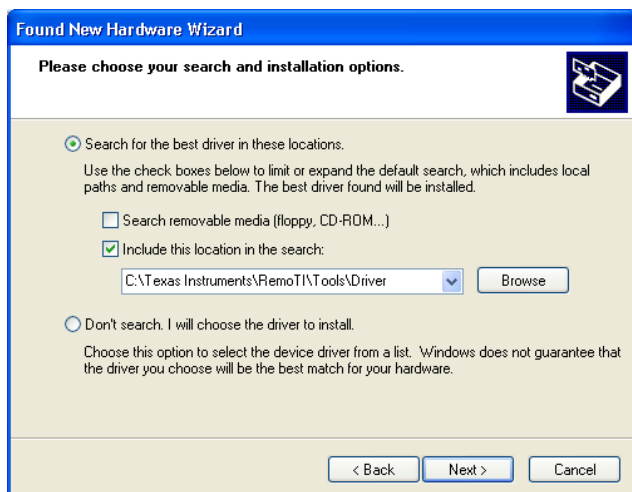## STEP 2 – Connect the Target Board to the PC

Plug the CC2530EM or CC2533EM into the target board EM connector and connect the antenna

Connect the mini-USB cable to the target board and to an USB port on the PC

Note. The CC2531 USB dongle in this kit can be used instead of the target board. See Section 4.2 in the **Target Emulator User's Guide (SWRU202)** for instructions. The remainder of this Quick Start Guide provides the instructions for the target board

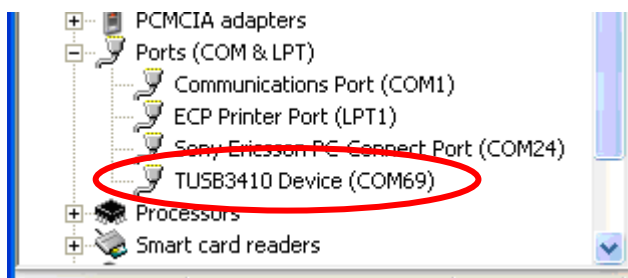## STEP 3 – Associate the Target Board with an USB Driver

The first time the target board is connected to a PC the new USB device will be detected

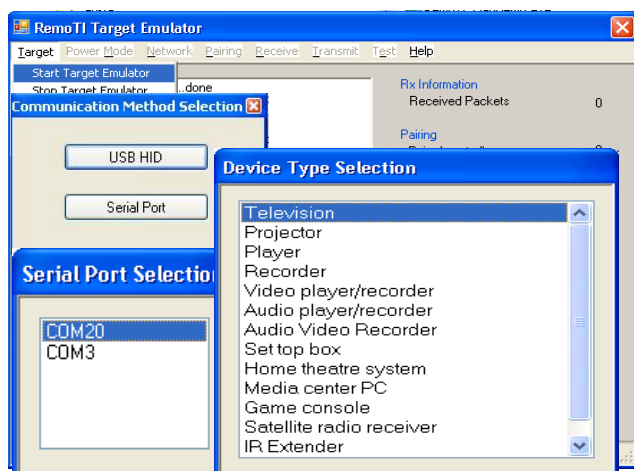Windows will start the "New Hardware Found Wizard" and try to associate the device with an USB driver

When prompted, select "**Install from a list or specific location**"

On the next screen select the driver located at: **C:\Texas Instruments\RemoTI-CC253xDK-<version>\Tools\Driver**

The **RemoTI Hardware User's Guide (SWRU211)** contains more information about the driver installation process

After the driver is installed the target module will be assigned a COM port. To see the COM port number, open the Windows Control panel – System – Hardware – Device Manager and check the COM port number under Ports (COM and LPT). The target board will be listed as a **TUSB3410 Device**, (COM69 in this example)

STEP 4 – Start the Target Emulator

Start the **TargetEmulator.exe** located at: C:\Texas Instruments\RemoTI-CC253xDK-1.2\bin

To connect to the target board go to the **Target menu** and select **"Start Target Emulator"** and select **"Serial Port"** as the communication method selection

Select the COM port for the target board. If you do not find the COM port, please check the **RemoTI Hardware User's Guide (SWRU211)**

The remote control is pre-programmed to control **Television**, **Video player/recorder**, **Set top box** and **Media center PC** device types. The target emulator must be instantiated with a matching device type to enable pairing between the remote control and the target emulator
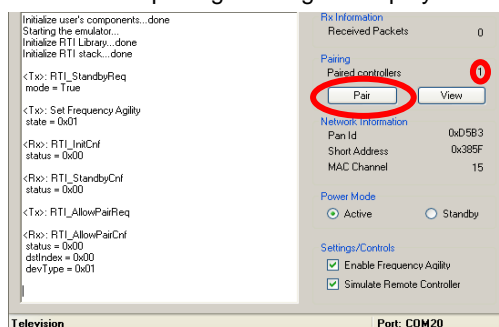
The RemoTI Controller Simulation Window will now be displayed

STEP 5 – Pairing the Remote Control and the Target Board

Insert batteries into the remote control

The final step is to pair the remote control and the target board. To pair the devices, press in any order the **Pair** button on the PC emulator and the **Pair (Zoom)** button on the remote control within 30 seconds

After successful pairing the target emulator will display the number of **Paired controllers** and the pairing message is displayed in the message window

STEP 6 – Using the Remote Control and Next Steps

A key press on the remote control will flash the corresponding key in the RemoTI Controller Simulation window. The message will also be displayed in the log window of the target emulator.

Note that in normal operation, the TV/DVD/STB/AUX buttons will not send data over-the-air, The "Frz" button is use to start the advanced test mode and should not be used in normal operation. See section 4.1.1 and 4.5 of the RemoTI Sample Application User's Guide (SWRU201) for more information about these functions

Further information and next steps:
1. Install the IAR Embedded Workbench at www.iar.com/ew8051
2. Follow the **RemoTI Sample Application User's Guide** to get started with the development environment
3. Install the CC debugger, please follow the quick start guide included with the CCdebugger
4. The **RemoTI Resource Guide** (available on the start menu of the RemoTI installation) is a consolidated starting point for documentation, reference designs, support information etc.
5. Check frequently for updates and new application notes at www.ti.com/remoTI
6. Meet other RemoTI developers and get technical support at www.ti.com/lprf-forum