



## **TMS320VC5505 eZDSP Stick Quick Start Guide**



### **1.0 SYSTEM REQUIREMENTS**

To operate the Spectrum Digital XDS100 JTAG Emulator with your system it needs to meet the following requirements:

- 2 GB of free hard disk space
- Microsoft Windows™ XP/Vista
- Min 1 GB ram, 2 GB recommended
- Min 1.5 GHz., dual core recommended
- Color Display
- Internet access
- USB port
- DVD reader

### **2.0 WHAT'S INCLUDED**

The TMS320VC5505 eZDSP USB Stick kit includes:

- TMS320VC5505 eZDSP USB Stick
- TMS320VC5505 eZDSP USB Stick DVD with Code Composer Studio (CCS)
- This Quick Start Guide

### 3.0 VC5505 eZDSP USB Stick Installation

**Note:** *Install ALL software prior to connecting the VC5505 eZDSK USB Stick to the computer !*

**Note:** *The user **MUST** be logged onto windows with "Administrative Rights" and any anti-virus software must be disabled during installations. Please contact your system administrator if help is needed in this area.*

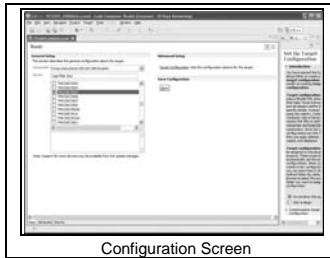
1. Insert the Code Composer Studio (CCS) v4 DVD into the computer's DVD drive and wait for the auto-run application to start. The user prompts will step the user through the rest of the CCS installation. The installation will place a CCS icon on your desktop.
2. At this time plug the VC5505 eZDSP USB Stick into a USB port on your laptop or PC. Windows will recognize the new hardware connection and complete the hardware installation automatically.
3. Launch CCS v4 from the shortcut icon on the desktop.
4. A prompt will appear asking for a workspace location. Each time CCS starts up the main workspace is the main working folder for CCS. The default location will be (on Windows XP) "C:\Documents and Settings\\My Documents\workspace". To have CCS automatically default to the specified workspace location, select the "Use this as the default and do not ask again" option.
5. Create a user license. After launching CCS, the user will be prompted to create a user license to activate the CCS software. Select the "Activate a License" option. Then click "Use Free Limited License". This will re-direct you to the Texas Instruments website to complete the License creation process. Alternatively, the "Activate a License" step may be bypassed temporarily and completed at a later date by clicking "Evaluate Code Composer Studio for 30 days".



License Screen

#### 4.0 CCS Configuration Instructions

1. Launch CCS v4 from the shortcut on the desktop. (This was created when CCS v4 was installed).
2. The CCS v4 window will appear. Click the "Target" menu, then select "New Target Configuration File".
3. The "New Target Configuration" window will appear. Enter a file name that describes the emulator connection and/or Texas Instruments device being used and click "Finish". For example: "VC5505\_USBStick".
4. The "Basic" configuration setup window will open in the CCS v4. Select "Texas Instruments XDS100 USB Emulator" from the "Connection" menu. Type "5505" in the "Device" field and select "USBSTK5505", from the list.



Configuration Screen

5. Click the "Save" button to save the configuration.
6. Click the "View" menu and select "Target Configurations" to expose the configuration(s) that have been built or imported. A new tab labeled "Target Configurations" will become available in the CCS window.
7. Expand the "User Defined" folder. Right-click on the new configuration that has been created and click "Launch Selected Configuration".
8. Click "View->Debug" then click "Target->Connect Target". CCS will attempt to connect to the VC5505 eZDSP USB Stick and run the GEL file. Once the connection is successful and the GEL file has finished, the console window will print a message stating "Target Connection Complete".

### 5.0 Running the VC5505 eZDSP USB Stick LED Blink Demonstration

1. The VC5505 eZDSP USB Stick must be connected in CCS before proceeding. If the board is not connected, please refer to section 4.0 of this guide.
2. Click "File->Import".
3. When the new window appears, expand "CCS" and select "Existing CCS/CCE Eclipse Project". Click "Next".
4. Select "Select Root Directory" and click the "Browse" button. Browse to directory path "<Install\_Dir>\ccsv4\emulation\boards\usbstk5505\tests\led".  
The default <Install\_Dir> is "C:\programfiles\Texas Instruments"
5. Highlight the "LED" folder and click "OK". Then click "finish"
6. Click "View->C/C++Projects". A new tab will appear in the CCS v4 window and there should be a LED project visible.
7. Click "Project->Build Active Project".
8. When the build is complete, a message will print in the Console Window.
9. Look in the "C/C++Projects" tab again and expand the "binaries" folder. There now should be a "led.out" file listed.
10. Right click on "led.out" and click "Load Program".
11. Click "Target->Run". The VC5505 eZDSP USB Stick "XF" LED should now blink.

### 6.0 SUPPORT RESOURCES

1. For additional information regarding the TMS320VC5505 family of DSPs please refer to the following page on the TI web site:  
<http://tiexpressdsp.com/index.php/C5000>
2. If you have problems or need additional information regarding the embedded emulation please refer to the XDS100 USB wiki on the TI web site. The URL for this site is:  
<http://tiexpressdsp.com/index.php?title=XDS100>
3. Code Composer Studio support is available via a forum at:  
<http://community.ti.com/forums/138.aspx>
4. More information about other Spectrum Digital emulators can be found at:  
[www.spectrumdigital.com](http://www.spectrumdigital.com)
5. Additional development support is available via the online community:  
[www.ti.com/ezdsp5505](http://www.ti.com/ezdsp5505)

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**SPECTRUM DIGITAL, INC**

12502 Exchange Dr., Suite 440, Stafford, TX. 77477

**T:** 281.494.4505 **F:** 281.494.5310

**e-mail:** [sales@spectrumdigital.com](mailto:sales@spectrumdigital.com) **website:** [www.spectrumdigital.com](http://www.spectrumdigital.com)

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