SPECTRUM DIGITAL INCORPORATED

XDS100v2 Quick Start Guide

| Extension Cable | XDS100v2 | USB Cable | Quick Start Guide |
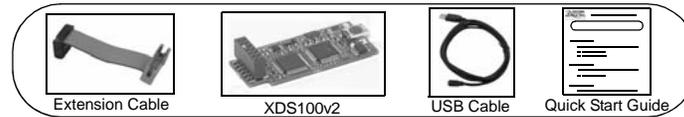
1.0 SYSTEM REQUIREMENTS

To operate the Spectrum Digital XDS100v2 JTAG Emulator with your system it needs to meet the following requirements:
- 2 GB of free hard disk space
- Microsoft Windows^{TM} 2000/XP/Vista
- Min 1 GB RAM, 2 GB recommended
- Color Display
- Internet access
- USB port
- Code Composer Studio Rev 3.3 or later

2.0 WHAT'S INCLUDED

The Spectrum Digital XDS100v2 USB JTAG emulator kit includes:
- XDS100v2 USB JTAG Emulator
- Extension Cable
- USB cable
- This Quick Start Guide

Note: *This kit does **NOT** include Code Composer Studio or drivers. This software can be obtained from Texas Instruments (www.ti.com). See installation instructions below.*

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3.0 XDS100v2 USB DEVICE and CODE COMPOSER STUDIO INSTALLATION

Note: *Install **ALL** software prior to connecting the XDS100v2 to the computer !*

This setup guide assumes the user has already acquired and installed Code Composer Studio (CCS). If CCS has not been installed, then do so now. CCS is **not** included in the Spectrum Digital XDS100v2 USB JTAG Emulator kit. The Spectrum Digital XDS100v2 supports CCS 3.3 (section 3.1) and CCS 4.x (section 3.2), which can be downloaded from the TI web site.

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.

3.1 TARGET CONNECTION and CCS 3.3 CONFIGURATION INSTRUCTIONS

1. For CCS 3.3 support refer to the XDS100 wiki on the TI website:
   http://tiexpressdsp.com/index.php?title=XDS100

3.2 TARGET CONNECTION and CCS v4 CONFIGURATION INSTRUCTIONS

1. All XDS100v2 USB drivers and CCS v4 drivers are included with the CCS v4 software installation.
2. Connect the included USB cable to a USB port on the host computer, then connect the USB cable to the XDS100v2. Windows will recognize the new hardware connection and complete the XDS100v2 installation automatically.
3. The target processor board should be unpowered at this time. Connect the XDS100v2 female 14-pin JTAG connector to the 14-pin male JTAG connector on the target board.
4. Launch Code Composer Studio v4 from the shortcut on the desktop. (This was created when CCS v4 was installed.)
5. The Code Composer Studio v4 window will appear. Click the "File" menu, then select "New-->Target Configuration File"

6. The "New Target Configuration" window will appear. Enter a file name that describes the emulator connection and/or Texas Instruments processor being used and then click "Finish".
7. The "Basic" configuration setup window will appear. Select "Texas Instruments XDS100v2 USB Emulator" from the "Connection" menu and select the target processor being used from the "Device" menu. (See the screen shot below.)
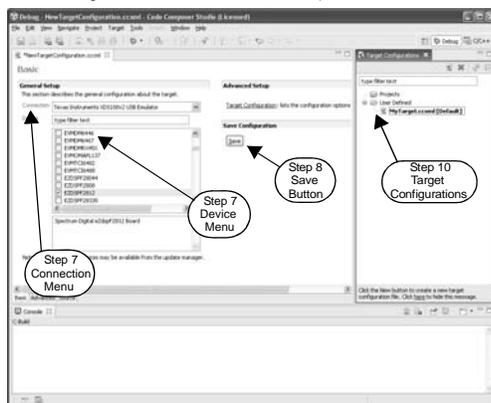
8. Click the "Save" button to save the configuration.
9. Apply power to the target processor board.
10. Click the "View" menu and select "Target Configurations" to expose the configuration(s) that have been built or imported. A new tab labeled "Target configurations" will become available in the CCS window.

11. Expand the "User Defined" folder. Right-click on the configuration that has been created and click "Launch Selected Configuration".
12. CCS will now attempt to connect to the target processor through the XDS100v2.
13. Code Composer Studio may now be used to download code and debug code on the target board.

4.0 SUPPORT RESOURCES

1. 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

2. Code Composer Studio support is available via a forum at

http://community.ti.com/forums/138.aspx

3. More information about other Spectrum Digital emulators can be found at:

www.spectrumdigital.com

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