XDS510 USB JTAG Emulator

Set-up Instructions

The XDS510 USB contains:

USB Cable

XDS510 USB

XDS510 USB
Driver CD ROM
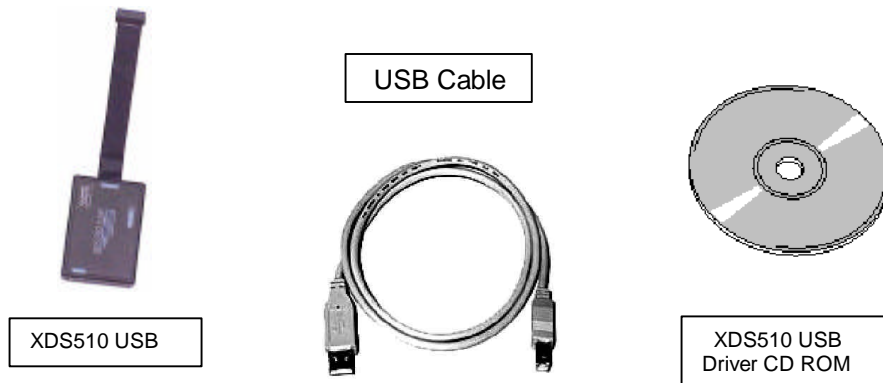
System Hardware and Software Requirements

These operating platform requirements are necessary to install the Code Composer Studio (CCS) integrated Development Environment and support the XDS510-USB emulator. The requirements for the operating platform are:

Minimum Configuration
- 233 Mhz. or faster Pentium or compatible
- 600MB of free hard disk space
- Microsoft Windows 98SE, Windows 2000(SP2 or higher), or Windows XP
- 64MB of RAM
- SVGA (640x480) color display
- Local CD-ROM Drive
- **Code Composer Studio 2.x**

Recommended
- 128MB of RAM
- SVGA(1024 x 768) color display
- 500 Mhz. or faster Pentium or compatible
- Windows 2000 or Windows XP

Installing the XDS510-USB Drivers for Windows 98SE/2000/XP

Before you install the XDS510-USB software, make sure the PC has a USB port and an operating system (Windows 98SE/2000/XP) that supports USB.

Note: *For Windows 2000 and XP you must install Code Composer Studio using Administrator privileges. To run CCS on these systems requires write permission on the registry.*

Installing Emulation Drivers

1. Insert the XDS510-USB installation CD into the CD-ROM Drive. An install screen should appear; if not, go to Windows Explorer and run setup.exe from the CD-ROM.
2. Follow the install instructions choosing an install path to match your current Code Composer install directory. This is normally "c:\ti". When the install is complete lead the installation CD in the CD-ROM drive. This will install the necessary "sdgo…." Emulation driver files.
3. Plug the supplied USB cable into an available port on your PC or HUB. Use of a USB HUB is recommended as it provides added isolation between your debug environment and PC.
4. Plug the XDS510-USB emulator into the other end of the supplied USB cable. Windows will recognize a new USB device and pop-up the new hardware found wizard. Follow the instructions and let Windows find the USB drivers located on the install CD (sdusbemu.sys and sdusbemu.inf). If properly installed Windows will create a new device class named "SD USB Based Debug Tools". The XDS510-USB device will show up as a "Spectrum Digital XDS510 USB" under this class. You can view this information under Windows Device Manager.

Setting Up Code Composer

1. Select the Code Composer Setup icon from the desktop.
2. From CC Setup import t a configuration dialog clear existing system configurations. From the filters pane select the platform "xds510usb". This will give you a list of predefined configurations for the XDS510USB emulator. If one of these configurations does not exactly match your target then select the closet configuration. You can then modify this configuration to meet your needs.
3. If you want to change the configuration of your setup simply right mouse click on the configuration under **System Configuration** then select **Properties**. You can modify the individual properties for your setup. The I/O Port under Board Properties should always be set to 0x510 for the XDS510-USB emulator.
4. Save your configuration and exit CC Setup.

Running Code Composer

You can now start Code Composer by double-clicking on the appropriate CCS icon. When CCS starts the XDS510-USB application loader will download the emulation driver application. Once the emulation application is loaded, the XDS510-USB emulator will enumerate and CCS will start. If there is a problem during the load or enumerate phase then the loader app will display an error/status message.

Trouble Shooting

1. Windows install message that there is not enough power for the XDS510-USB. This may occur if you are using an unpowered USB HUB. Solution is to use powered USB HUB.
2. The XDS510-USB application loader will report error/status messages. Check these messages to resolve setup or connection issues.
3. CCS will not start. The beta version of the XDS510-USB drivers will create a diagnostic file in the CCS drivers' directory named"Pid1_Xds510UsbLog.txt". Open this file and check the error messages. The "Pidx_" prefix identifies the internal processor id. There is one log per processor. You can disable logs by deleting or renaming the file "SdDoUsbLog".