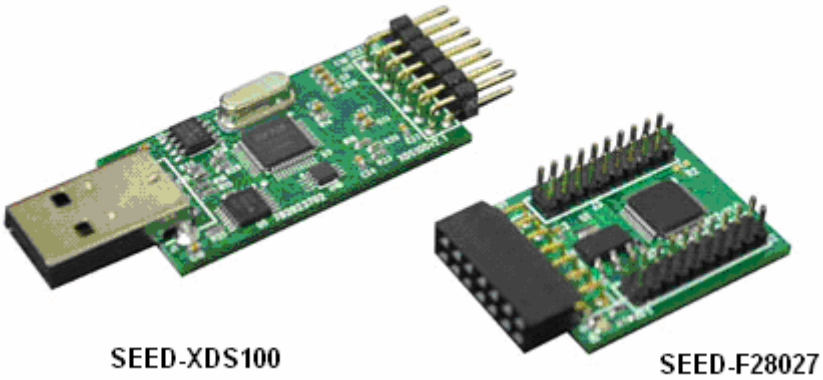
SEED-XDS100-F28027 Kit Quick Stat Guide



This document will talk about the features and application environment of SEED-XDS100 JTAG emulator.

FEATURES

High-speed USB2.0 port (480Mbits/sec)
USB bus powered
High-speed RTDX with data rates of over 2MB/ sec
Low I/O voltage support TI device roadmap from 0.5V-5V
Code download speed up to 0.5 MB/sec
TMS320 28XXsupported
14-pin standard JTAG header
Full compatibility with XDS510 Emulators

SYSTEM REQUIREMENTS

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

Windows XP Professional Edition
Code Composer Studio™V3.3
Code Composer Studio™V3.1 [CCS3.1 Driver is different with CCS3.3 Driver, please follow the same steps with CCS3.3]

WHAT'S INCLUDED

The SEED-XDS100-F28027 kit includes:

- SEED-XDS100 USB JTAG Emulator
- SEED-F28027 evaluation board
- JTAG cable

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

SEED-XDS100 USB DEVICE and CODE COMPOSER STUDIO INSTALLATION

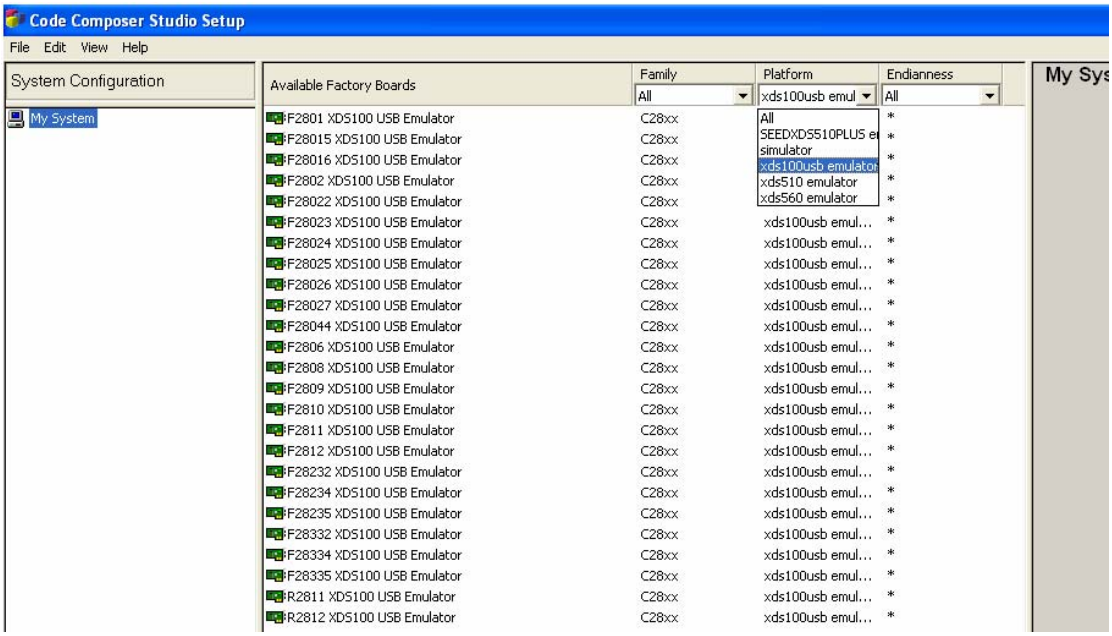
Note: Install **ALL** software prior to connecting the XDS100 to the computer!

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 SEED-XDS100-F28027 kit.

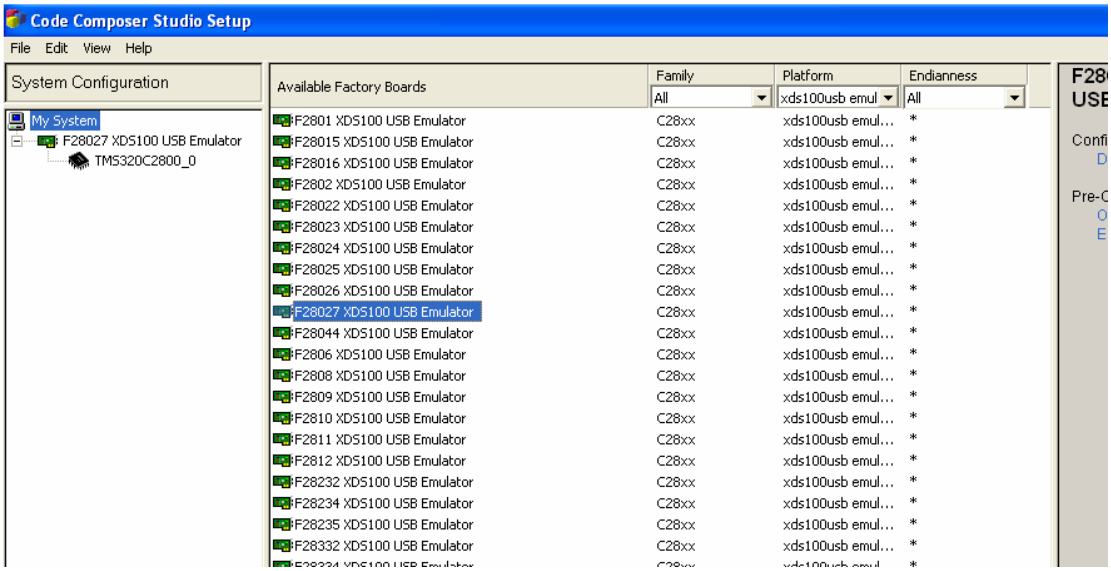
The SEED-XDS100 supports CCS3.3 and CCS4.x, which can be downloaded from the TI web site.

TARGET CONNECTION and CCS3.3 CONFIGURATION INSTRUCTION

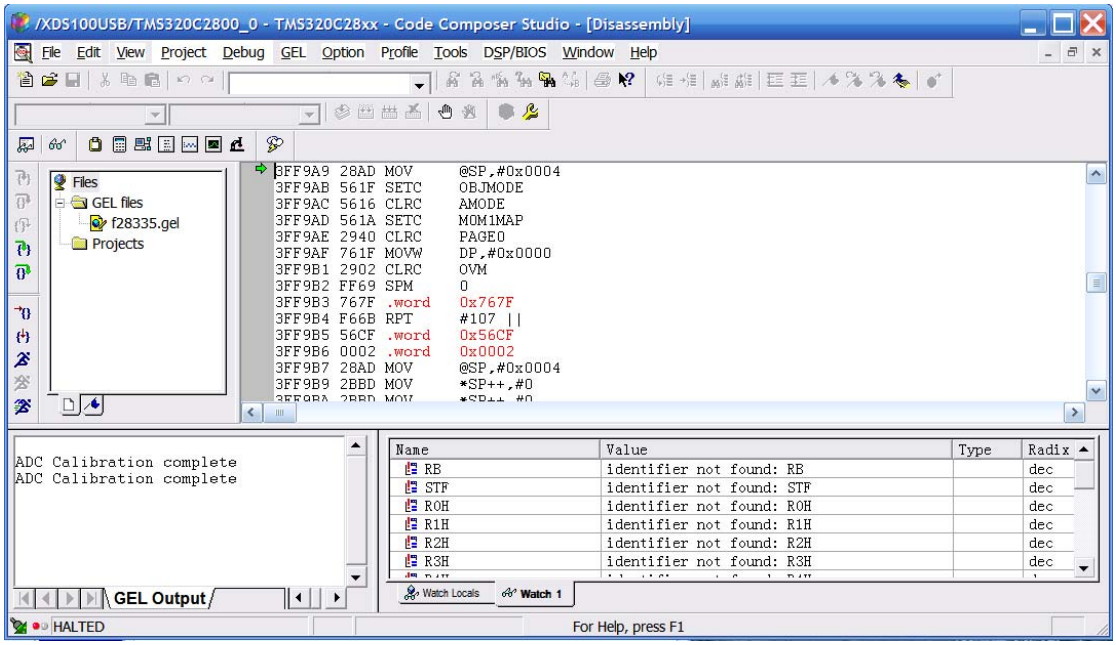
1. Download the latest XDS100 software from the Texas Instruments web site. The XDS100 software can be found on the Texas Instruments web site at http://tiexpressdsp.com/index.php?title=xds100 under the “XDS100 Installation Instructions” section.
2. Run the XDS100 software installation. The software should be installed into the same directory where CCS is installed on the computer. The software installation will install the USB driver, CCS driver, and pre-built CCS Configurations.
3. The target board SEED-F28027 is powered by the SEED-XDS100. Connect the SEED-XDS100 male 14-pin JTAG connector to the female 14-pin JTAG connector on the target board.
4. Plug in the SEED-XDS100 to a USB port on the host computer. Windows will recognize the new hardware connection and complete the XDS100 installation automatically.
5. Launch the Setup Code Composer Studio application from the “Setup CCStudio” icon on the desktop. (The Setup CCStudio application is included in the Code Composer Studio software installation)
6. Select “XDS100USB Emulator” from the “Platform” menu.



7. A list of available connections for the XDS100USB Emulator will appear in the middle of the Setup CCS screen, under “Available Factory Boards”. Click on the configuration “F28027 XDS100 USB Emulator” and add to the “System Configuration” (left panel). The setup CCS window will then look like the following:



8. Click “File→ Save”. Exit the Setup CCS application.
9. Launch CCS from the CCStudio icon on the desktop. When the CCS Window opens, click “Debug→ Connect” to connect CCS with the emulator and the SEED-F28027.
10. Code Composer Studio may now be used to download code and debug code on the target board.



SUPPORT RESOURCES

1. If you have problems or need additional information 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 can be found in the CCS “Help” menu or by contacting TI by email at: **softwaresupport@ti.com**
3. More information about other SEED International products can be found at:

   www.seeddsp.com/eng