4 CCStudio v4/5 Setup

In the CCSv4/5 Target Configuration General Setup window (see figure 3 below) simply select the **Texas Instruments XDS100v2 USB Emulator** connection and then check your device or board in the list. Save this setting and launch the TI Debugger.

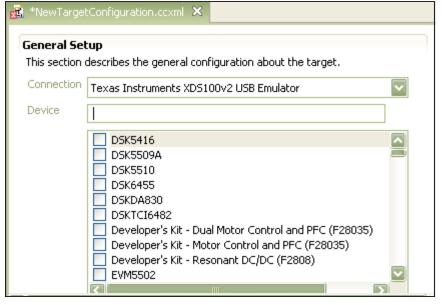


FIGURE 3 - XDS100v2 Target Setup and Selection

Follow these links for more details on XDS100v2 setup using CCStudio v5:

- http://processors.wiki.ti.com/index.php/CCSv5.
- http://processors.wiki.ti.com/index.php/Target Configuration -Custom Configurations.

Additional XDS100v2 Information

Follow this link for more details and support on the XDS100 product:

http://processors.wiki.ti.com/index.php/XDS100.

QUICK START GUIDE Blackhawk™
USB100v2-ARM
JTAG
Emulator (USB100v2-ARM)

XDS100v2 JTAG Emulators Require:

Windows: Code Composer Studio v4 or later

Linux: Code Composer Studio v5 or later

Install CCS v4 or v5 before connecting XDS100v2 hardware!

You will also need:

- PC or Notebook computer with at least one free USB v1.1 or v2.0 port.
- Linux or Windows® 2000/XP/Vista/7 Operating Systems (32 or 64-bit versions).

Inventory of Items Included

- 1. Blackhawk USB100v2-ARM Emulator.
- 2. 20-pin JTAG Cable (0.100" spacing)
- 3. 10-pin JTAG Cable (0.050" spacing)
- 4. USB 2.0 Compliant Cable.
- 5. Warranty and Product Registration Information.
- 6. Quick Start Guide.

Other Items Required

- Target Board System a selfpowered board with a TI DSP and compatible JTAG header connection conforming to IEEE 1149.1 Standard.
- Copy of Code Composer Studio v4[†] or later.

IMPORTANT ENVIRONMENTAL CONSIDERATIONS

This equipment is designed to be operated under the following environmental conditions:

Temperature between 0°C – 55°C. Relative Humidity of 20% - 70% non-condensing.

Operation of the unit outside of the above range may affect structual and mechanical integrity and cause permanent damage.

Caution is necessasry to minimize ESD (Electro-static Discharge) which can damage electronic components. Use in a controlled environment where ESD materials and practices are employed is highly recommended.

† CCStudio v5 is available for download from the TI web site for use with XDS100 products **free-of-charge**. Please visit this TI Wiki page for more info: http://processors.wiki.ti.com/index.php/CCSv5.

1 Emulation Driver Installation

Code Composer Studio v4/5 Must be Installed FIRST

XDS100v2 Drivers are installed as part of CCS v4/5 or CCS v4/5 update. By default, the drivers are installed to the following folder:

C:\Program Files\Texas Instruments\ccsv4\common\uscif\ftdi
C:\ti\ccsv5\ccs_base\common\uscif\ftdi

For more information on CCS v5, refer to the TI documentation and help resources and the following link:

http://processors.wiki.ti.com/index.php/CCSv5

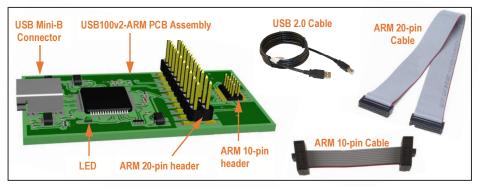
2 Hardware Installation

WARNING

Be careful when connecting the ribbon cables. Pin 1 on the interface cable should match Pin 1 on the USB100v2-ARM and DSP system connectors.

Do not force connector into position. Forcing them may damage the connector or the interconnected boards and systems.

- Install Code Composer v4/5 software FIRST. DO NOT ATTACH EMULATOR HARDWARE UNTIL CCSv4 IS INSTALLED.
- 2. Attach the proper JTAG target cable. <u>Make sure the target board is **not powered** and that you only connect **one cable**.</u>
 - If your target uses a 20-pin (2x10) header, attach the supplied 20-pin cable to the emulator's 20-pin header (see figures 1 and 2).
 - If your target uses a 10-pin (2x5) header, attach the supplied 10-pin cable to the emulator's 10-pin header before connecting to your target (see figures 1 and 2).
- 3. Attach the USB cable to an available USB port on the PC.
- Then attach the other end of the USB cable (mini-B connector) to the USB Mini-B connector of the USB100v2-ARM Emulator (see Figure 1).
- For Windows, follow the Plug and Play installation in section 3 for the Windows device driver. Otherwise, skip to section 4 to setup and start Code Composer Studio.



USB PnP Installation 3

Windows 2000/XP/Vista/7 (32 and 64-bit)

- 1. **Install Code Composer Studio v4/5 FIRST**. DO NOT ATTACH EMULATOR HARDWARE UNTIL CCSv4 IS INSTALLED.
- 2. Complete step 1 above, then if not already connected, connect the USB cable to the computer and to the USB100v2-ARM emulator.
- 3. If prompted, follow the Windows "Found New Hardware" wizard prompts.
- 4. You can select the "automatic" option for locating drivers.
- When completed, Windows Device Manager will show the device under the Universal Serial Bus controllers as TI XDS100 Channel A and TI XDS100 Channel B.
- 6. Now follow the Code Composer Studio Setup Section 4

Linux (32 and 64-bit)

Linux does not require the same installation as Windows. To check if your USB devices has enumerated, use the command: lsusb. And look for output similar to this:

Bus 001 Device 002: ID 0403:a6d0 Future Technology Devices International, Ltd

1. Go to section 4 - Code Composer Studio Setup

