

# 6 CCStudio Setup

## CCStudio v4.2 and later

- In the CCS Target Configuration General Setup window (see figure 5 below) simply select the **Blackhawk XDS560v2-USB System Trace Emulator** connection.
- Type your device or board in the device list and check the box on the left.

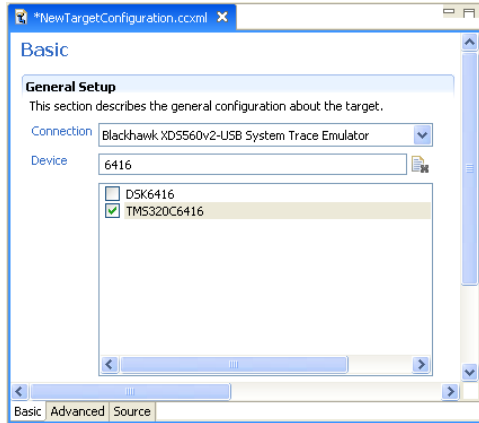


FIGURE 5 - CCS Target Configuration Setup

- Save this setting (see figure 6).
- Launch the TI Debugger (see figure 6).

For more information on CCS v4/v5, please visit the TI Wiki links shown on page 1.

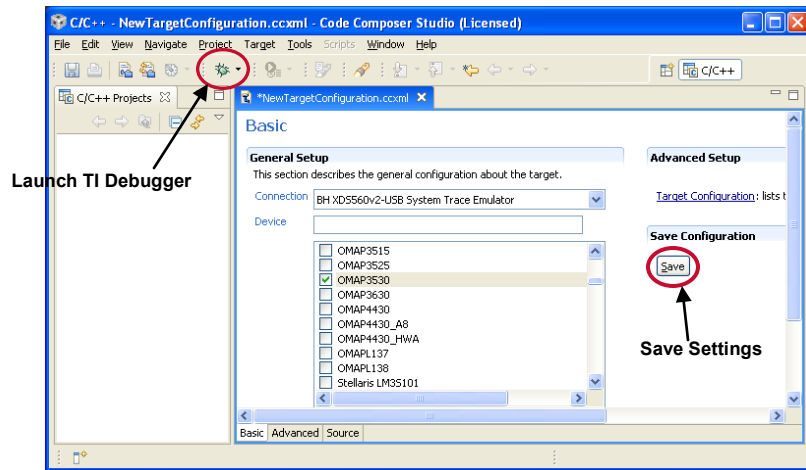


FIGURE 6 - CCS v4/v5 Main Window

# QUICK START GUIDE

# Blackhawk™ USB560v2 System Trace Emulator (USB560v2)

## Contents



# 1 Software Installation

## DO THIS FIRST!

Install **CCStudio v4.2 or later** before connecting the emulator hardware to the PC or network.

All the files needed to use the **USB560v2** are installed as part of the CCS v4.2 or later installation from TI. This includes the necessary Windows/Linux<sup>1</sup> device drivers for both 32 and 64 bit operating systems.

For **software updates**: use the automated CCS v4/v5 update tool under the help menu.

For **CCS v4 questions**: visit the TI Wiki Site: <http://processors.wiki.ti.com/index.php/CCSv4>

For **CCS v5 questions**: visit the TI Wiki Site: <http://processors.wiki.ti.com/index.php/CCSv5>

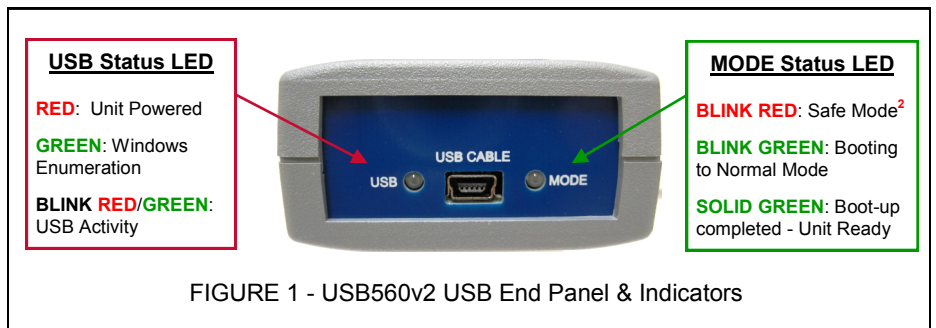


FIGURE 1 - USB560v2 USB End Panel & Indicators

<sup>1</sup> Linux references apply to installations of CCS v5 or later.

<sup>2</sup> To clear Safe Mode (MODE LED blinking RED), use the Blackhawk XDS560v2Config Utility (section 5).

## 2 Target Cable Connections

- The **USB560v2** **does not** require a buffer board and **cannot** be used with a buffer board. Use **MIPI60 pin converters ONLY**.
- The **USB560v2** comes with an 8 inch, high-speed coax ribbon cable with native MIPI60 connection that supports system trace (STM) data collection (see Figure 2A).
- Pin Converters are provided to connect to these other target board JTAG headers: 14-pin TI, 20-pin compact TI, and 20-pin ARM (see Figure 2B).

For additional details please refer to the [USB560v2 installation guide](#).

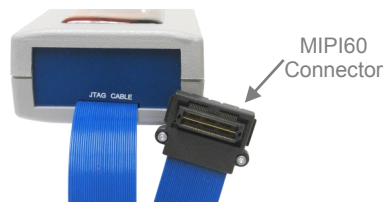


FIGURE 2A - USB560v2 Cable assembly with MIPI60 connection

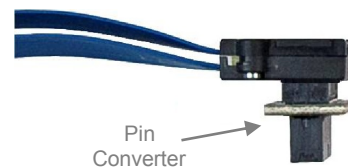


FIGURE 2B - Pin Converter used with USB560v2 JTAG Cable

## 3 USB Installation - Windows

### Windows (32 and 64-bit Editions)

- Power the **USB560v2** Emulator by connecting the USB cable to a USB-A port on the PC/Laptop and the USB mini-B connection (see figure 1) on the **USB560v2**.
- On power-up the USB LED will be **RED** and the MODE LED blinking **GREEN** indicating that the unit is booting up.
- When the MODE LED turns solid **GREEN** the boot cycle is completed (~20 seconds) and Windows should announce that it “found new hardware”.
- Follow the Windows “Found New Hardware” wizard prompts and select the automatic installation of drivers, which were installed by CCS.
- You can verify enumeration by an entry shown in the Blackhawk Control Panel or Windows Device Manager.
- Now follow the Code Composer Studio Setup in section 6 or test the USB connections in section 5.

## USB Installation - Linux 4

### Linux (Fedora, RedHat, Ubuntu, etc. - 32 and 64-bit)

- Power the **USB560v2** Emulator by connecting the USB cable to a USB-A port on the PC/Laptop and the USB mini-B connection (see figure 1) on the **USB560v2**.
- On power-up the USB LED will be **RED** and the MODE LED blinking **GREEN** indicating that the unit is booting up.
- When the MODE LED turns solid **GREEN** the boot cycle is completed (~20 seconds) and Linux should load the device driver automatically.

- In a terminal window, you can use the “lsusb” command to list the USB devices that are present. The **USB560v2** will be listed as ID **0x0b1e**.

```
user@linux-ubuntu:~/home/user> lsusb
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 001 Device 002: ID 0b1e:0009 EWA Technologies, Inc. (EWA)
user@linux-ubuntu:~/home/user>
```

- Now follow the Code Composer Studio Setup in section 6 or test the USB connections in section 5.

## Configuration and Test 5

### BH560v2 Config Utility

- Launch the BH560v2 Config Utility either from the desktop shortcut or from the JAR file located in <ccs\_install>ccs\_base\common\uscfif.
- The utility will search for the **USB560v2** on the PC.

(See figure 3 below for emulator found on USB port 0).

For further options and tests, please refer to the [Bh560v2Config User Guide](#).

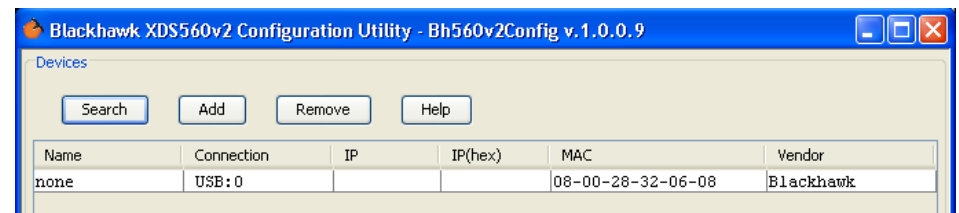


FIGURE 3 - BH560v2Config Utility Devices Section