

XDS560v2 System Trace JTAG Emulator for CCS 4.x

Quick Start Installation Guide

Kit Contents



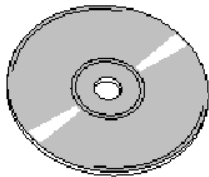
XDS560v2
System Trace



+5V Universal
Power Supply



AC Power
Cords



Driver DVD



USB Cable



Ethernet Cable



MIPI60 – 14TI



MIPI60 – 20CTI



MIPI60 – 20ARM



MIPI60 – 60TI

System Requirements

- Microsoft Windows™ 2000/XP/Vista
- 2 GB of free hard disk space
- Minimum 1 GB RAM, 2 GB recommended
- Minimum 1.5 GHz, dual core recommended
- Color display
- Internet Access
- USB port
- Ethernet port
- DVD reader

Service and Support

Web	http://support.spectrumdigital.com
E-Mail	support@spectrumdigital.com

The driver install supports the Spectrum Digital XDS560v2 System Trace JTAG Emulator in a CCS 4.2 or higher environment. Emulation drivers are updated on a regular basis so check the Spectrum Digital web site at support.spectrumdigital.com. The XDS560v2 System Trace JTAG Emulator will be referred to as the XDS560v2 STM.

Installation Overview

Installing the XDS560v2 STM is 3 step process:

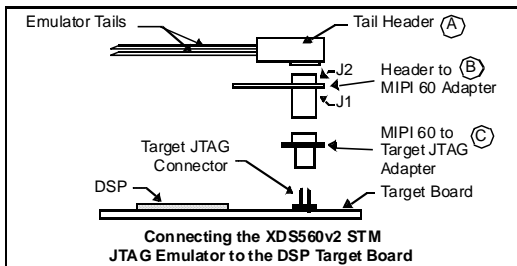
1. Installing the Code Composer Studio software
2. Configuring the emulator tail with correct target adapter.
3. Installing the USB or Ethernet connection to the host PC.

Installing the Code Composer Studio software

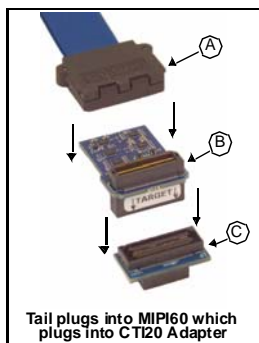
1. Code Composer Studio should be installed before starting the hardware installation. Please refer to the Code Composer Studio software installation guide for the installation of Code Composer Studio. The baseline Spectrum Digital emulation drivers are included in CCS v4.2 and higher and these should be installed.
2. Additional documentation is on the driver CD included with your XDS560v2 STM product.

Configuring the Emulator Tail

1. The emulator tail is the physical interface between the emulator and target board. The tail configuration will consist of 3 parts:
 - Emulator tail header
 - Emulator tail header to MIPI 60 pin header
 - MIPI 60 to target JTAG connector adapter:
 - MIPI 60 to 20 pin CT1 – *installed at the factory*
 - MIPI 60 to TI 14 pin
 - MIPI 60 to TI 60 pin
 - MIPI 60 to ARM 20 pin
2. The female JTAG header attached to the end of the emulator tail plugs onto the target's male pin header. The figure below shows how the XDS560v2 STM emulator header plugs onto the target's JTAG header.



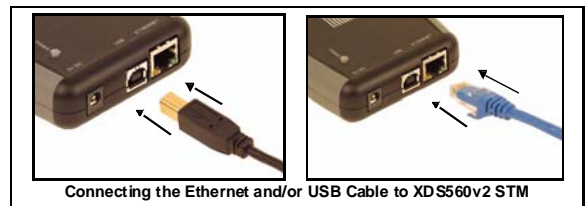
3. The figure below shows the factory installed configuration, MIPI 60 to CT120.



Installing the USB or Ethernet connection to the host PC

This section provides instructions to install the XDS560v2 STM JTAG emulator using the USB or Ethernet interface.

1. Turn off the power to your target board.
2. The XDS560v2 STM may be connected to the host PC by either Ethernet or USB. Connect the supplied Ethernet or USB cable to your PC or laptop. The XDS560v2 STM may be used with an Ethernet router or **powered** USB hub.
3. Connect the other end of the Ethernet and/or USB cable to the XDS560v2 STM.



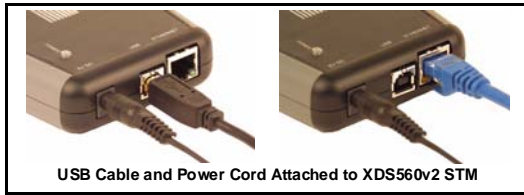
4. Connect the included +5 volt power supply to your wall AC power source using the AC power cord.
5. Apply power to the XDS560v2 STM by connecting the power supply to the +5 volt input on the XDS560v2 STM located on the rear of the emulator.



When power is connected the "PWR" LED on the XDS560v2 STM should illuminate. After about 45 seconds LEDs "State 2" and "State 3" should come on. At this point the XDS560v2 STM has booted its operating system and is ready for connecting via USB or Ethernet.

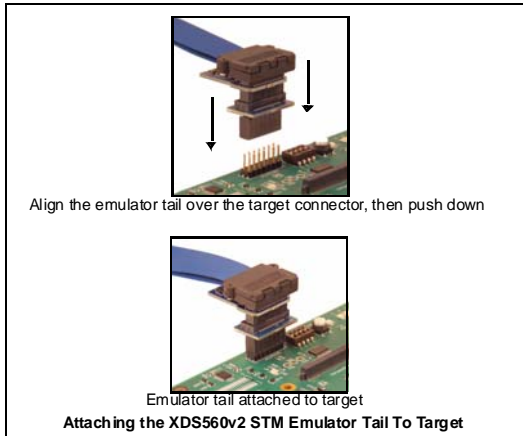
If this is the first connection over the USB the Windows Hardware Wizard should find the XDS560v2 STM and install its USB drivers.

The figure below shows the Ethernet or USB cable, power cord plugged into the XDS560v2 STM.



- Now connect the tail of the emulator to the JTAG header on your target board. If your target board requires a different interface than the generic 60 pin header on the tail, attach one of the header adapters as required.

Caution should be used in the routing of the tail ribbon cable to insure it does not go near the processor(s), power traces, or power cords.



- Apply power to the target board.
- Please refer to the XDS560v2 STM Technical Reference Manual for the typical system configurations.

Configuring CCSv4

To configure CCS v4 to use the XDS560v2 emulator follow the CCSv4 instruction for creating a “New Target Configuration”. When selecting the emulator select one of the following:

“Spectrum Digital XDS560V2 STM LAN Emulator” for Ethernet connection or
“Spectrum Digital XDS560V2 STM USB Emulator” for USB connection.

For an Ethernet setup you will need to configure the “The Emulator IP Address” under the “Connections Properties”. The IPAddress for your XDS560v2 can be obtained using the XDS560v2 Configuration utility. There should be an icon on your desktop named Sd560v2Cnfg.



Under the “Eth” tab you can select “FIND IPAddress” and then match the MAC Address found to the MAC address of your XDS560v2. The XDS560v2 MAC address is on printed on the back of your XDS560v2. CCSv4 takes the IP Address in the form of x.x.x.x for example 10.0.3.54.

For USB the default “Emulator I/O Port Number” of 0 should be used when connecting to a single XDS560v2.

For other methods of finding the IPAddress or verifying your XDS560v2 connection see the Sd560v2Cnfg help.

