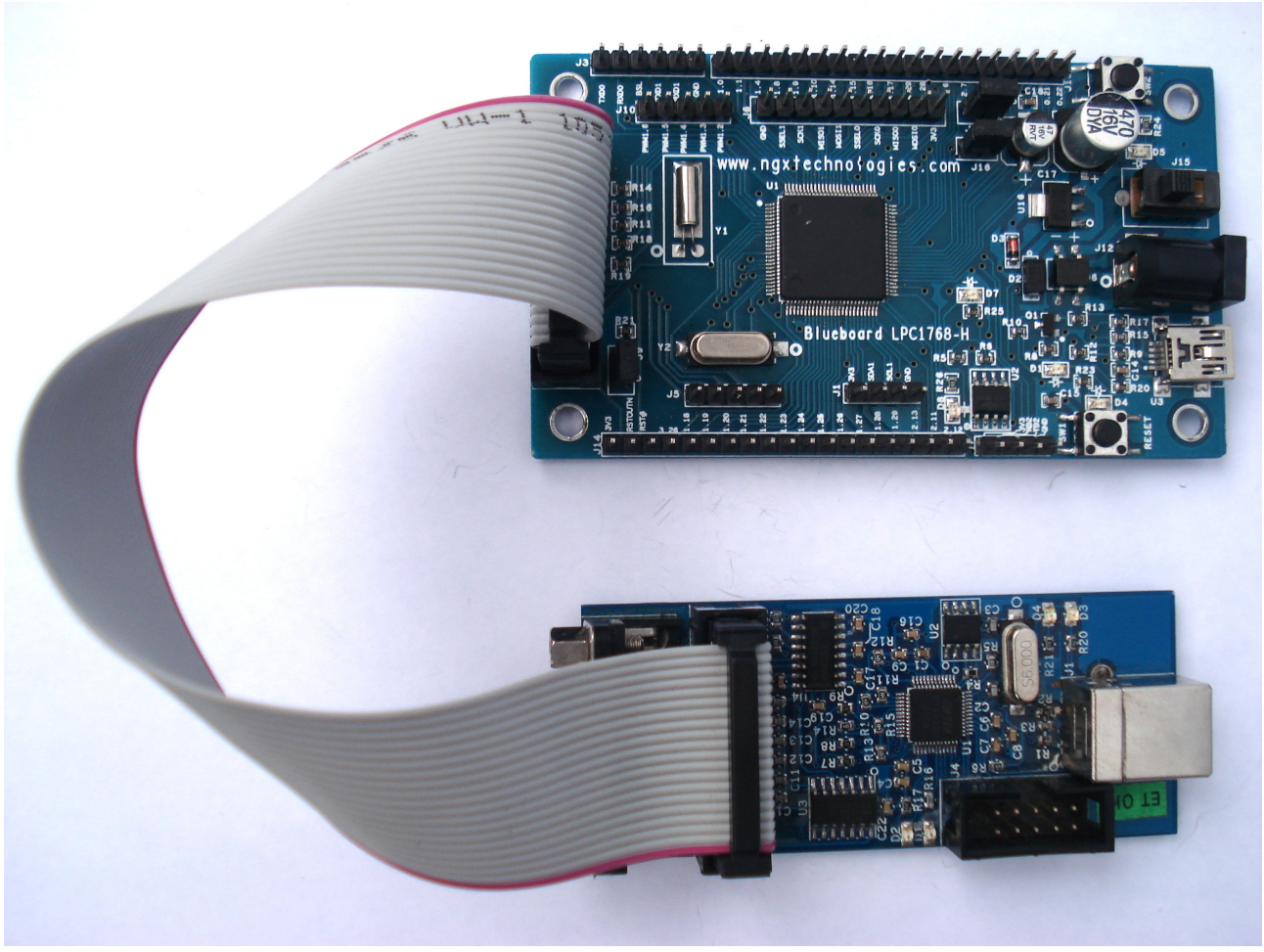
NGX USB-JTAG with CooCox Colink on Keil (MDK-ARM)



SETUP MANUAL

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Introduction

The NGX USB-JTAG can be used with Keil Microcontroller Development Kit (MDK-ARM) for debugging on LPC 1768 Header board and baseboard variants as well.

It connects your target hardware (via JTAG) to PC's USB port and allows you to download and test your programs on your target hardware and program the on-chip FLASH memory of many ARM Cortex M3 devices.

Set-up

The setup involves the hardware connections and the software installation and settings.

Hardware

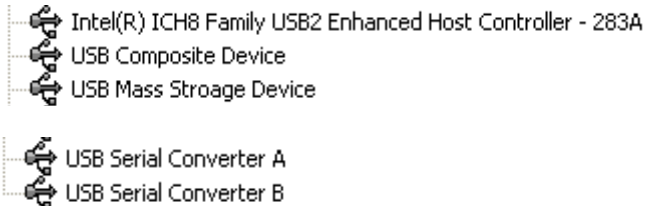
- NGX USB-JTAG kit
- Target board
- Type B USB connector wire

Connect the NGX USB-JTAG to the target board and to the PC.

Software

- Keil Microcontroller Development Kit (MDK-ARM) installed on your PC
- NGX USB-JTAG drivers installed on your PC
- CooCox Colink plugin setup

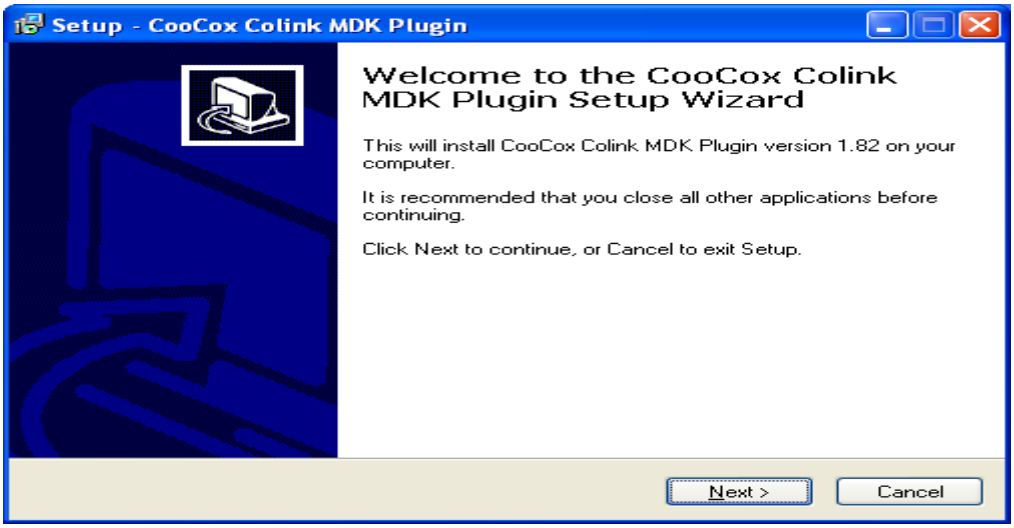
We will now install the CooCox Colink plugin and make the necessary settings through Keil µVision IDE for it. Before we continue we assume that you have successfuly installed Keil Microcontroller Development Kit (MDK-ARM) and NGX USB-JTAG drivers.



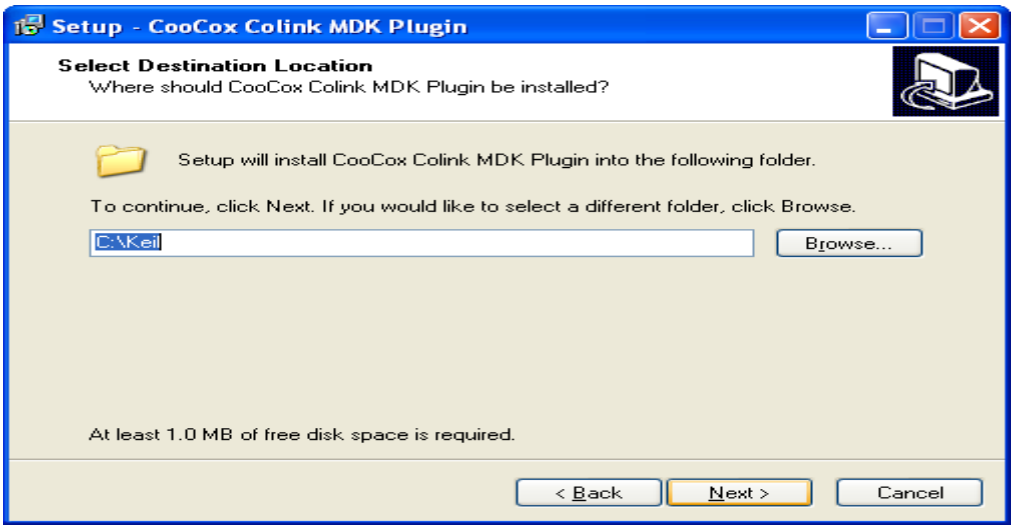
(if the NGX USB-JTAG drivers are installed you should see USB Composite Device and USB serial converter A & B list in Universal Serial Bus Controllers listing in device manager)

CooCox Colink plugin setup

Download the setup file (CooCox_Colink_MDK_Plugin_V1.82_Setup.exe) from the link provided here. Double click on the downloaded file. It will start the installer.

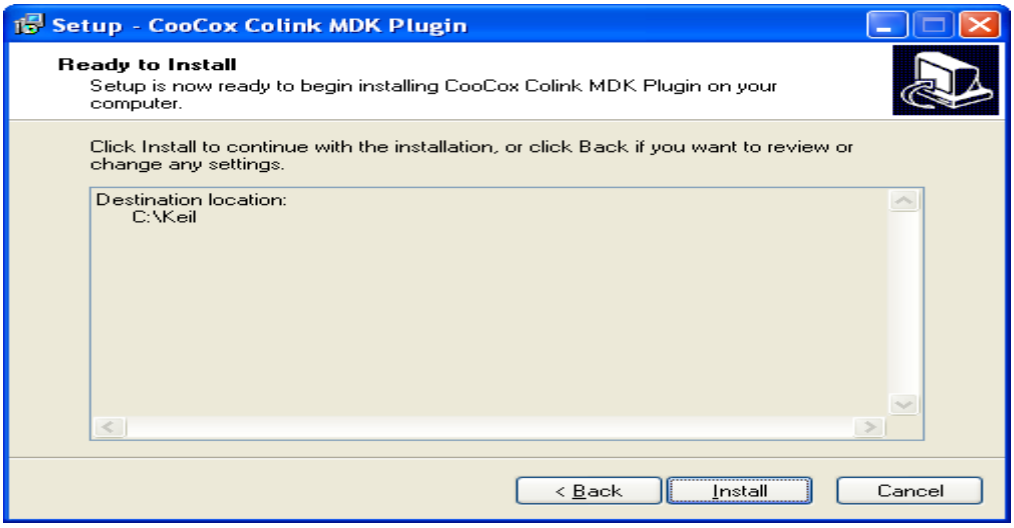


Click Next.

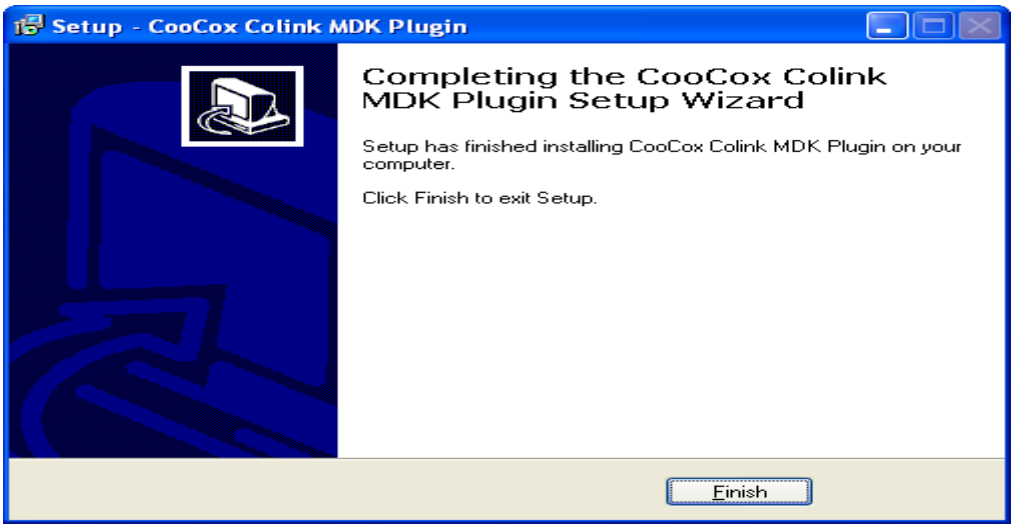


Here the default path is C:\Keil, if you have installed it some where else give that path.

Click Next.

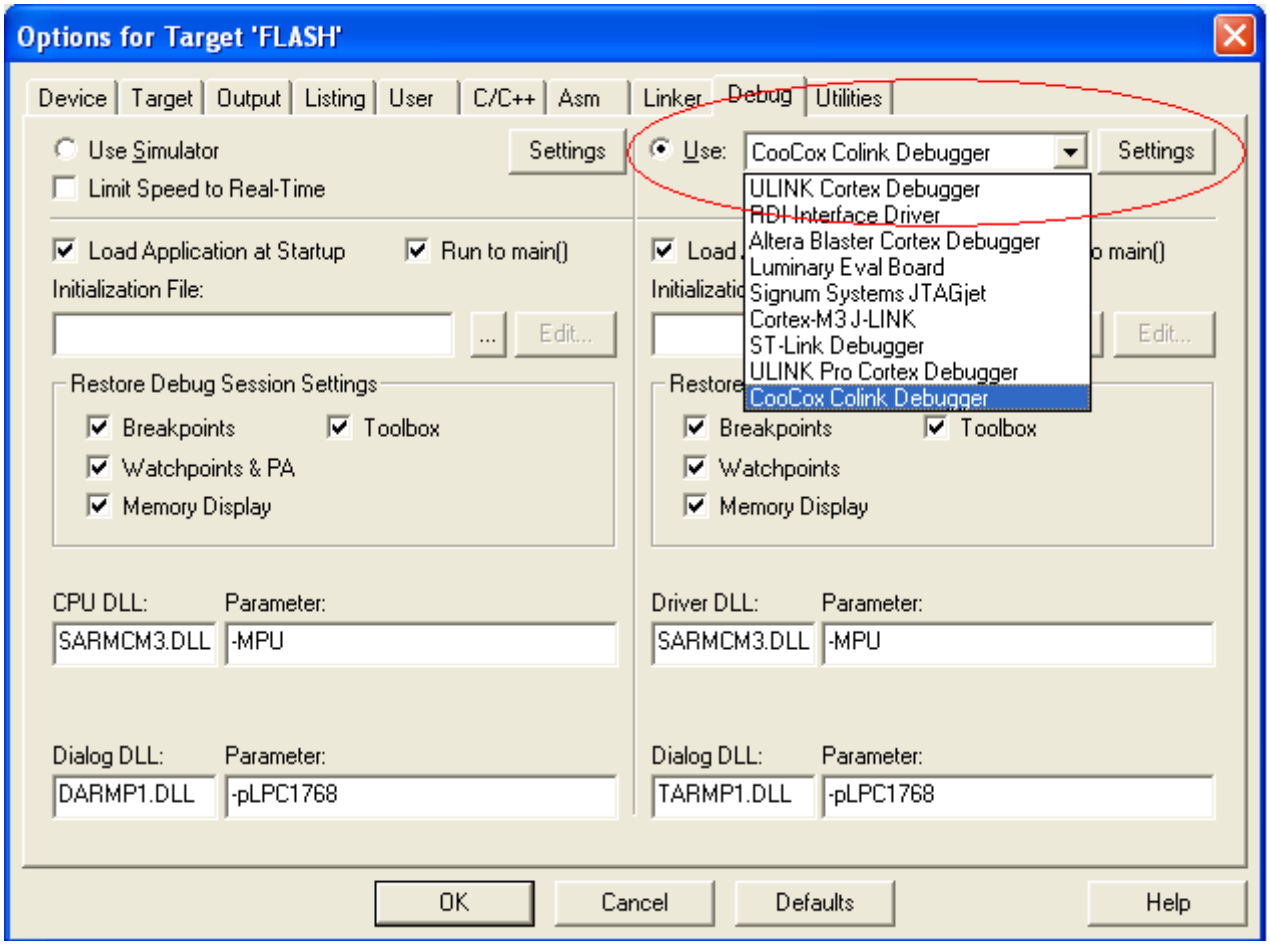


Click Install.

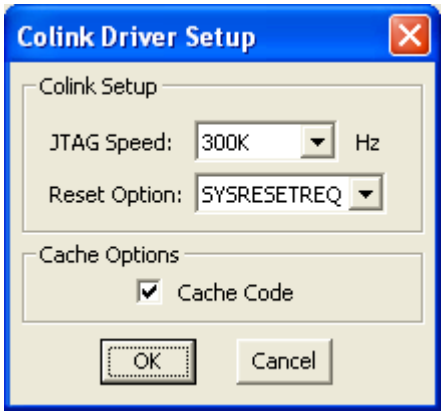


With this, click on Finish. You have successfuly installed CooCox Colink plugin for Keil Microcontroller Development Kit (MDK-ARM).

Open the µVision IDE and go to **Flash** --> **Configure Flash Tools...--->Debug** tab.

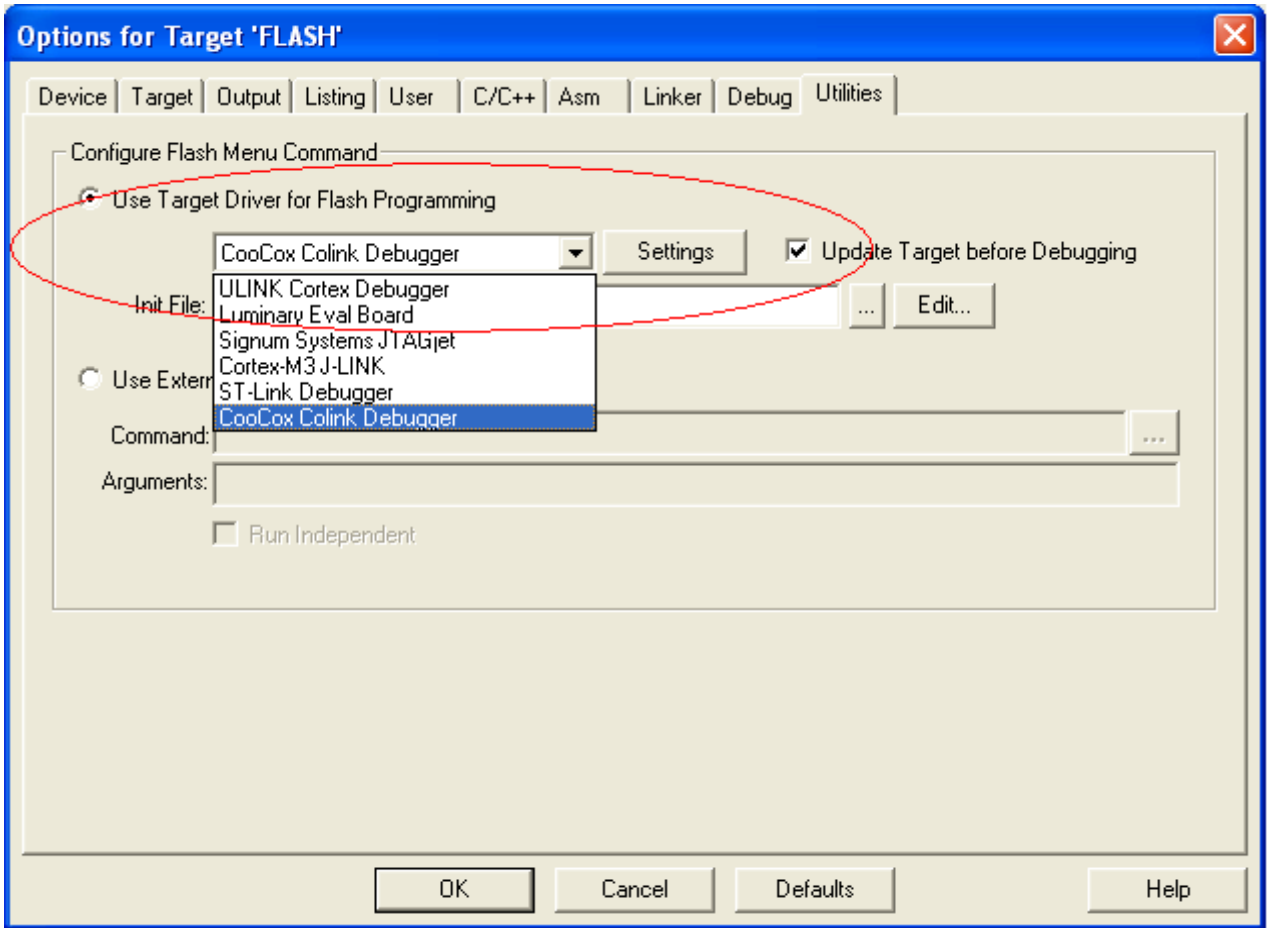


Select the CooCox Colink Debugger in the drop down menu. The click Settings.

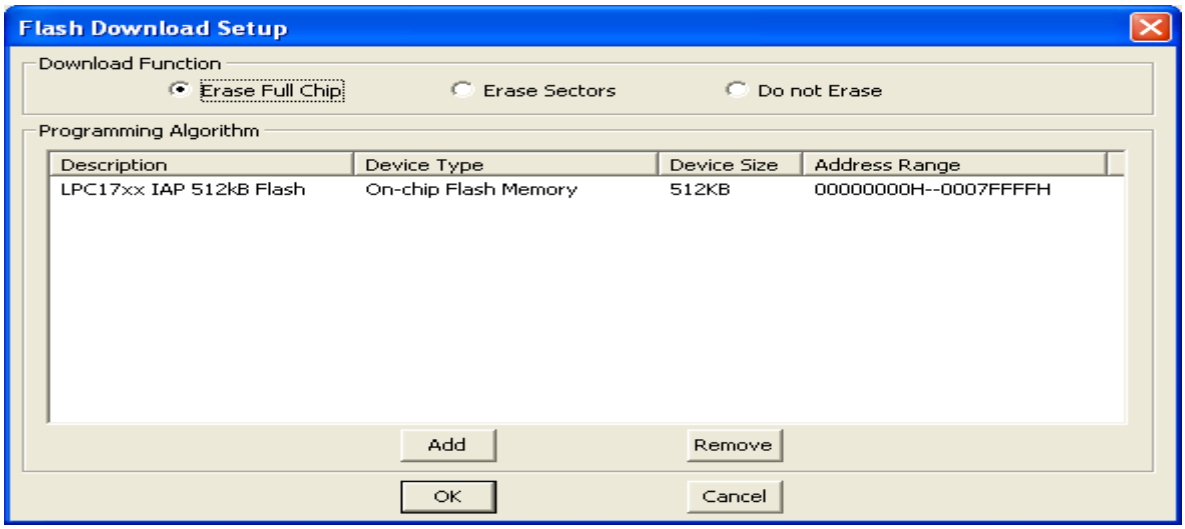


You should have the following settings set-up. Then click OK.

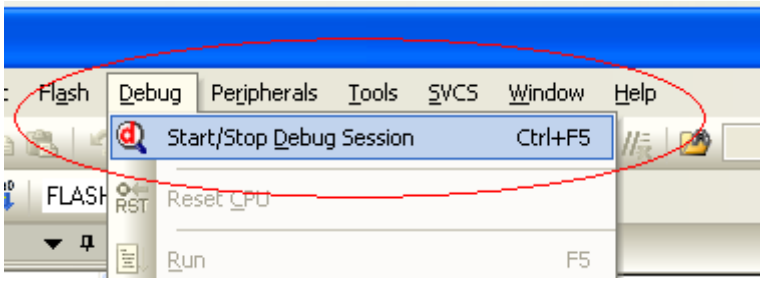
Then go to **Flash** --> **Configure Flash Tools...--->Utilities** tab.



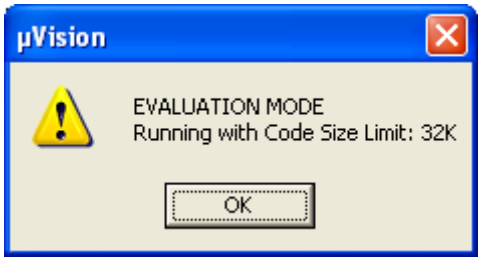
Select the CooCox Colink Debugger in the drop down menu. Then click Settings. Then Click OK.



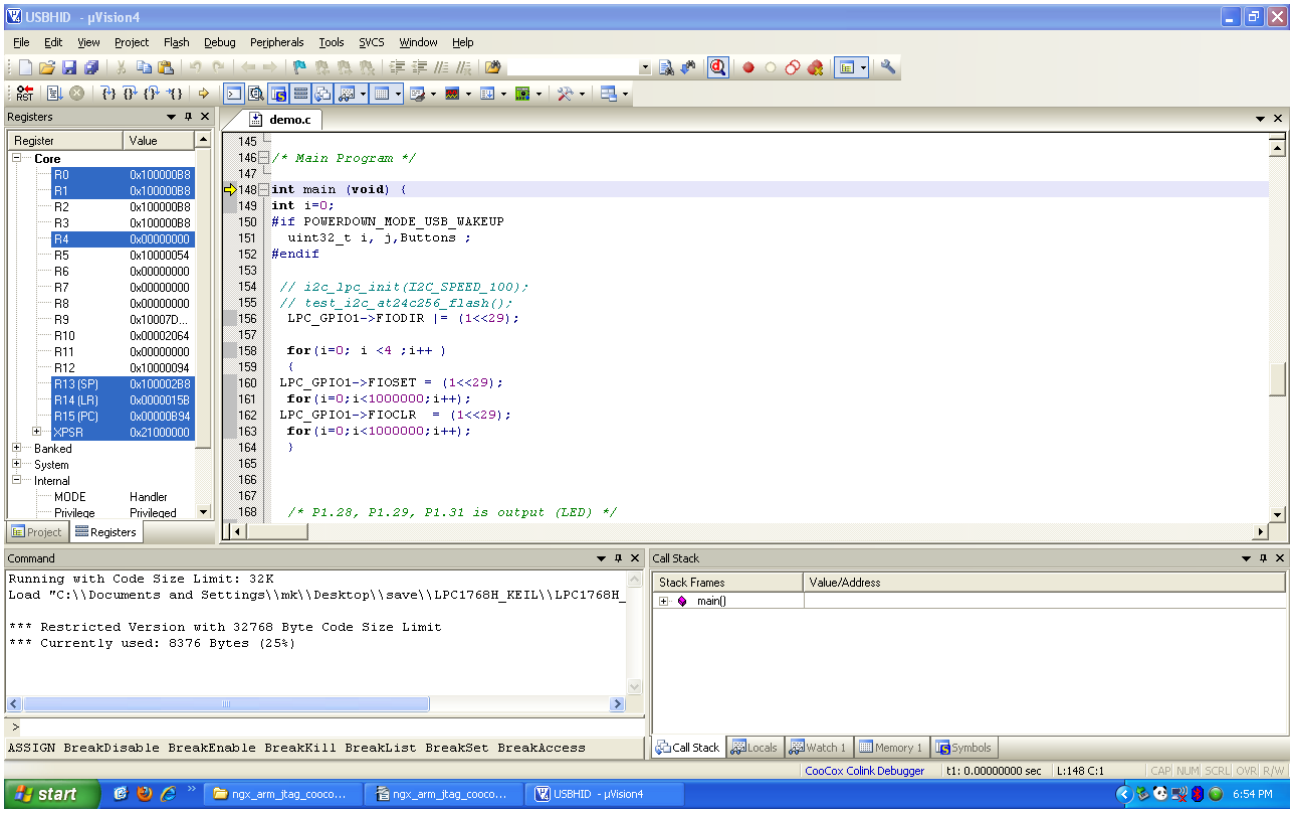
Open a project which can be succsessfully compiled and built. Go to **Debug** --> **Start/Stop Debug Session**



You will see this if you have a trial evaluation version of Keil Microcontroller Development Kit (MDK-ARM).



Click OK. If everything is working fine you should see some thing like the screen-shot below.



If you do not get this try resetting the target board.

Information

Revision History

*version: v*1.0 *author:* Milind Kakati

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