



Getting Started with Code Composer Studio on Windows

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Contents

1	INTRODUCTION	3
2	INSTALLING CCS	4
3	USING CCS.....	8
3.1	COMPILING, PROGRAMMING, DEBUGGING	8

1 Introduction

This document has been prepared for customers of WiSense, customers who are using the MSP430-based sensor networking solutions from WiSense. However, the audience is anyone working on Texas Instruments' MSP430-based embedded microcontroller platforms.

To generate executable code for the MSP430, popular commercial solutions include IAR and Code Composer Studio (CCS). Since these are paid versions, they are not preferred by hobbyists and students. The open source community has therefore developed mspgcc based on the gcc toolchain. Mspgcc is free to download and use. It can also be modified if necessary since the source code is available. Mspgcc is released under GPLv2.

Although port of mspgcc is available for Windows, we have not investigated this yet. This document therefore talks about using CCS. A free trial version of CCS is available.

2 Installing CCS

At the time of writing this document, the latest version is 5.5.0.00077. The following are the steps for installing CCS from TI website:

1. Go to the main download page: http://processors.wiki.ti.com/index.php/Download_CCS
2. Web installers install directly via the Internet. Offline installers download all necessary files so that you can install them safely even without Internet connection. Offline installers are preferred. Select the Windows version offline installer as noted in Figure 1.

Figure 1: CSS Download Link

Release	Build #	Date	Download	Notes
5.5.0	5.5.0.00077	Sep 9, 2013	Web Installers: Windows  Linux  Off-line Installers: Use this if the web installer cannot connect to the internet Windows   Linux 	<ul style="list-style-type: none">• New in 1 Stellaris grid widg• Installat compatib Addition:• The softv

3. Unless you are already logged into TI website, you will be prompted to login or register to the website. When registering, it is important that you do not give either Yahoo or Gmail e-mail address. If you are a student, give your student e-mail address and details of your college. If you a working professional, give details of your company. **You will NOT be allowed to download the software with either Yahoo or Gmail e-mail addresses.**
4. Once you are registered, you will see the download link as noted in Figure 2. Download file size is about 1.3 GB and this can take many hours on a slow connection. The downloaded file should be named [CCS5.5.0.00077_win32.zip](#).

Figure 2: CSS Download Link

TI Software _____

You have been approved to receive this Software.
Click "Download" to proceed.

In a few moments, you will also receive an email with the link to this file.

Download

Having trouble downloading? Try www.ti.com/software-help

Thank you,
Texas Instruments

5. Execute the downloaded file. You may wish to add CCS plugin to existing Eclipse installation if you have one. However, this will work only if your Eclipse version is between $\geq 3.8.0$ and $< 4.0.0$. You are better off leaving this checkbox unchecked. Do a "Custom" installation. At the minimum, select "MSP430 Ultra Low Power MCUs" as shown in Figure 3. Note that you require about 1.6 GB of free memory to install CCS. Subsequent screens for installation are shown in Figure 4 and Figure 5. You may see more options if you have selected multiple processor architectures in Figure 3.

Figure 3: Processor Architectures to Install

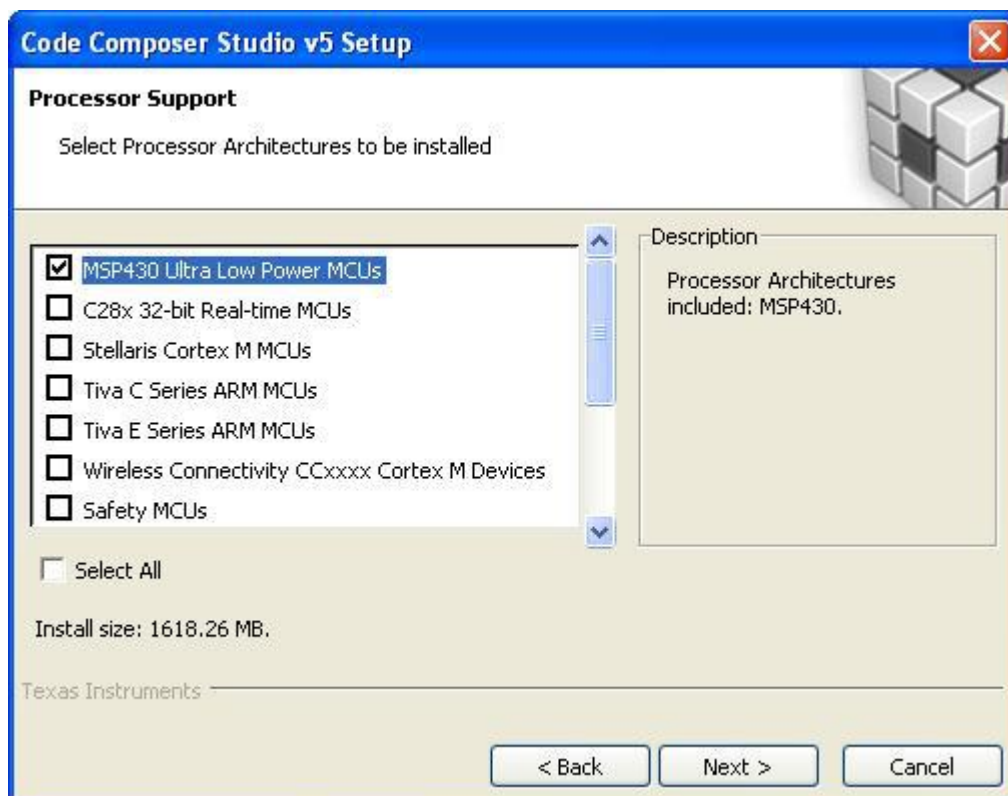


Figure 4: MSP430 Components for Installation

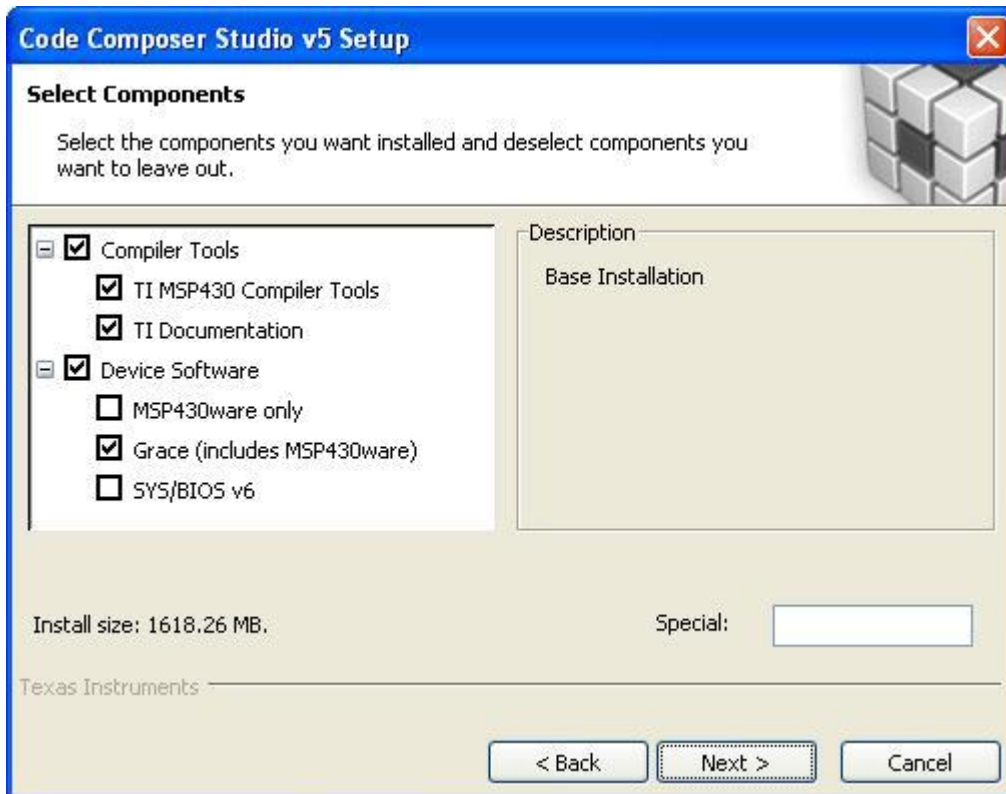
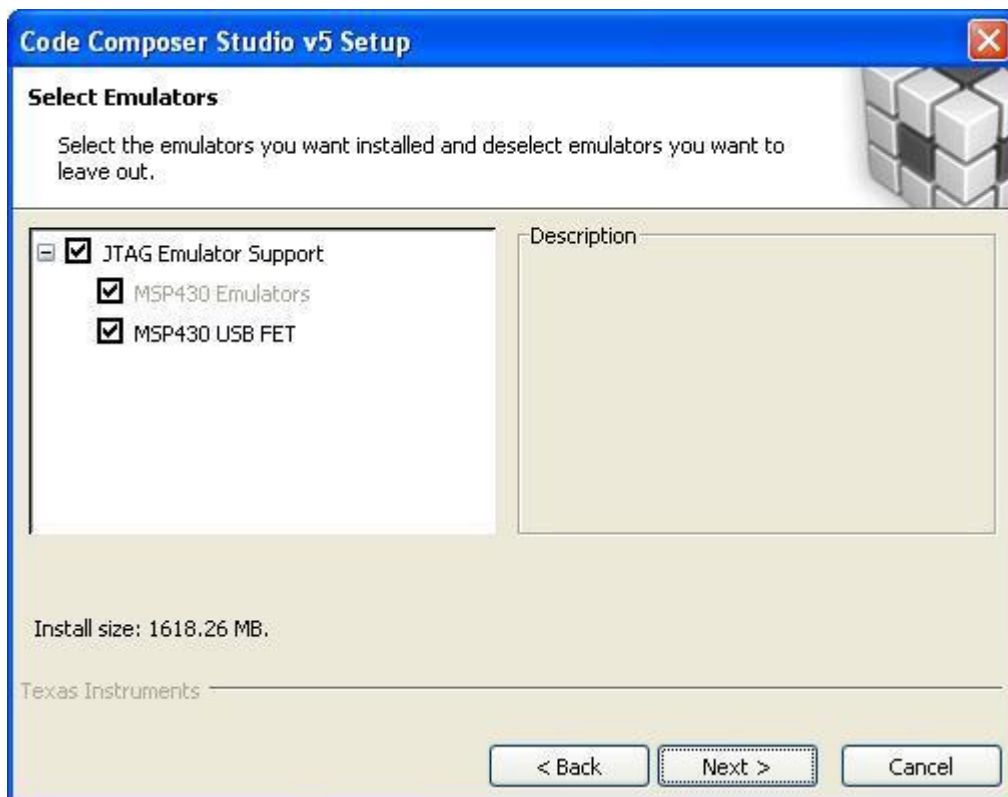
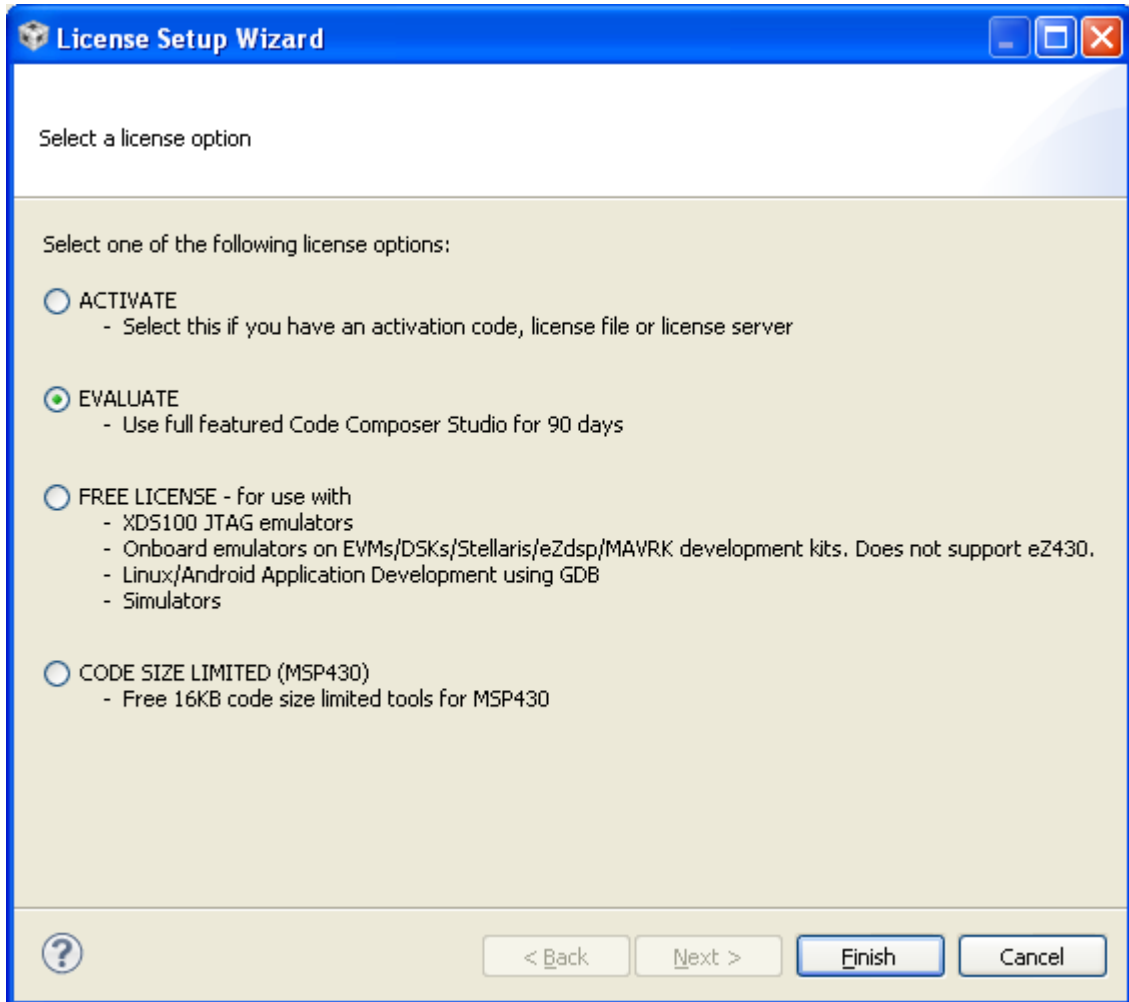


Figure 5: MSP430 Emulator Support



6. After installation, start CCS. During first execution, you will prompted to select the license as shown in Figure 6. Select full featured CCS that can be used for 90 days. Note that this step may require Internet connection.

Figure 6: Select CCS License



3 Using CCS

3.1 *Compiling, Programming, Debugging*

At the moment, this procedure is not documented here. Please refer to [Getting Started with MSP430F5529 LaunchPad](#). Two differences are to be noted when applying to WiSense platform:

1. WiSense platform currently uses MSP430G2955. Hence when starting a new CCS project, set the device variant appropriately.
2. Pin connections to LEDs on the LaunchPad may be quite different from WiSense hardware. The example code must be updated after consulting WiSense hardware schematics. These are available on [WiSense website](#).