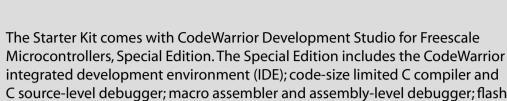
Starter Kit Quickstart Tutorial







emulate and debug user code. Full-speed program execution allows you to perform hardware and software testing in **CodeWarrior**

programming support; and full-chip simulator. Together with CodeWarrior Development Studio, the Starter Kit provides you with everything you need to write, compile, download, in-circuit

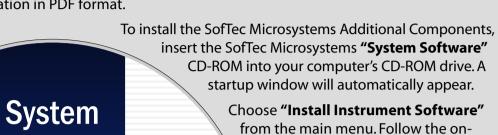
> To install the CodeWarrior Development Studio Special Edition, insert the CodeWarrior CD-ROM into your computer's CD-ROM drive. A startup window will automatically appear. Follow the on-screen instructions.

Install Additional Components

Software

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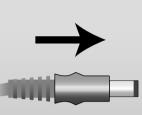
The SofTec Microsystems Additional Components install all of the other required components to your hard drive. These components include the Starter Kit USB driver, the software plug-in for CodeWarrior, examples and documentation in PDF format.

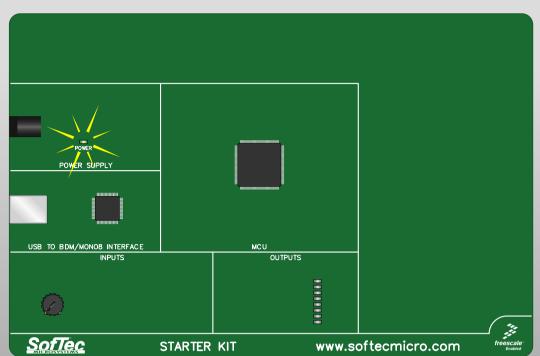


screen instructions. Note: to install the Starter Kit Additional Components on Windows 2000 or Windows XP, you must log in as Administrator.

Power up the Board

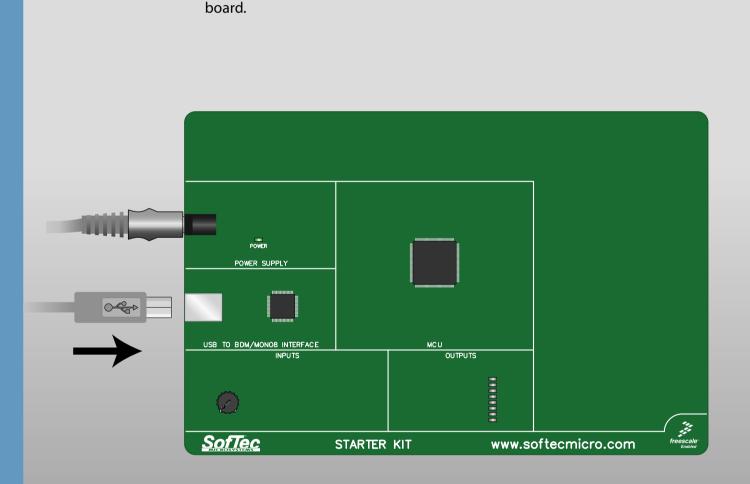
Before powering up the evaluation board, make sure all of the Starter Kit's jumpers are set to their factory position (see the Starter Kit's specific user's manual). The power connector accepts a 12 V DC, wall plug-in power supply with a 2.1 mm pin and sleeve plug with positive in the center and sleeve as ground. The green "POWER" LED on the board should turn on.





Connect the Board to the PC

Insert one end of the USB cable into a free USB port on the host PC. Insert the other end of the USB cable into the USB connector on the Starter Kit

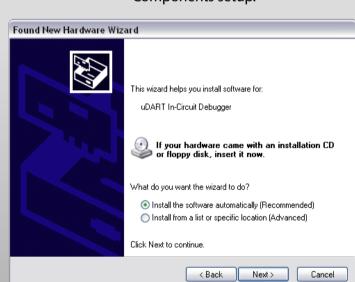


Found New Hardware Wizard

The first time the Starter Kit is connected to the PC, Windows recognizes the instrument and starts the "Found New Hardware Wizard" procedure, asking you to specify the driver to use for the instrument.

The procedure is slightly different on each version of Windows. On Windows XP, select the "Install the software automatically" option and click on the "Next"

Be sure not to specify any drive or optional location where to look for the driver, since it has already been installed on your hard disk by the Starter Kit Additional Components setup.



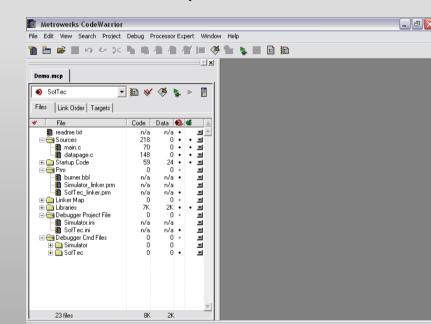
Note: both Windows 2000 and Windows XP may issue a warning during the "Found *New Hardware Wizard" procedure. This* warning is related to the fact that the USB driver used by the Starter Kit is not digitally signed by Microsoft, and Windows considers it to be potentially malfunctioning or dangerous for the system. However, you can safely ignore the warning, since every kind of compatibility/security test has been carried out by SofTec Microsystems.

Run CodeWarrior and **Open the Example**

Make sure all of the Starter Kit's jumpers are set to their factory position. Start CodeWarrior Development Studio by selecting "Start > Programs> SofTec Microsystems > SK and ZK Series > CodeWarrior Development **Studio**". CodeWarrior Development Studio will open.

From the main menu, choose "File > Open". Select the "**Demo.mcp**" workspace file located under the

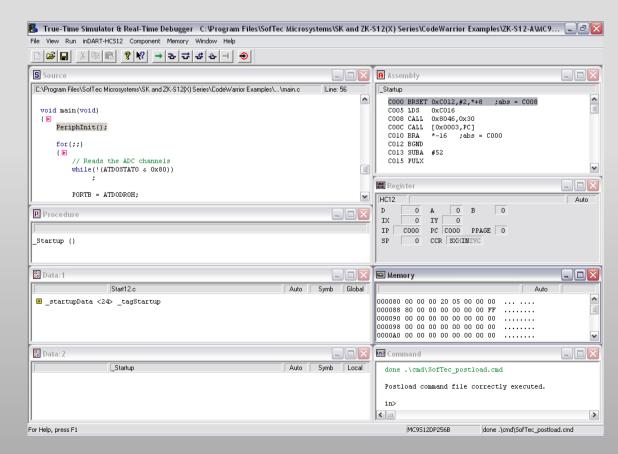
"\Program Files\SofTec Microsystems\SK and ZK Series\CodeWarrior **Examples\[Your Starter Kit Model]\[Your Target Microcontroller]\ Demo"** directory.



Click "Open". The source code of this example is contained in the "main.c" file. Double click on it to open.

Start a Debugging Session

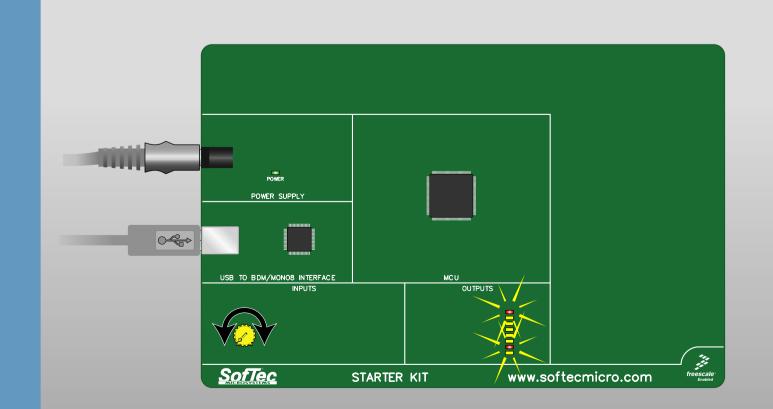
From the main menu, choose "**Project > Debug**". This will compile the source code, generate an executable file and download it to the Starter Kit board. A new debugger environment will open.



Run the Example

From the main menu, choose "Run > Start/Continue". The program will be executed in real-time.

By rotating the potentiometer on the Starter Kit board, you affect the results of the A/D conversion, and the result of each conversion is displayed on the Starter Kit's output section.



Congratulations!



You have successfully completed this tutorial! You can continue to experiment with the CodeWarrior user interface and discover its potentialities by yourself. For an in-depth guide of all of the user interface features, select "Help > CodeWarrior Help" from the CodeWarrior

Development Studio's main menu. Please also read carefully all of the Starter Kit documenta-

For the latest software releases, new products, new supported devices, discussion forums and FAQs, log on to

http://www.softecmicro.com/



Microcontroller Development Tools www.softecmicro.com

Starter Kit 速成教學







安裝附加元件



SofTec Microsystems Additional Components 將會把所需的元件安裝到硬碟機 ,元件包括 Starter Kit 的 USB 驅動程式、CodeWarrior 的外掛軟體、程式例 子及 PDF 格式的文件檔。

安裝 SofTec Microsystems Additional Components: 將本公司 SofTec Microsystems 提供的 [System Software] 光碟放入光碟機內, 啓動 視窗隨即自動打開。

在主菜單選擇 [Install Instrument Software] ,然 後請依照屏幕的指示進行安裝。 註:您必須以系統管理員的身份登入, 才可以在 Windows 2000 或 Windows XP 安裝 Starter Kit Additional Components



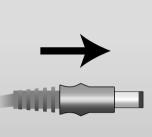


為電路板接上電源



為評估板接上電源前,請確定所有 Starter Kit 的跨接線固定於出廠時的位置 (詳情請參閱 Starter Kit 的使用者手冊)。

當電路板上的電源插孔接上 12 伏特直流電入牆式供電器 (插頭規格: 2.1 mm ,中心和外層分別爲正極及接地端)時,電路板上的 [POWER] 綠色發光二極 體將會亮起。







連接電路板到個人電腦



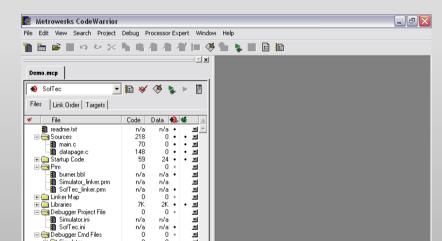


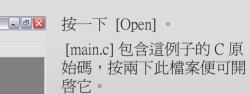
執行CodeWarrior 以及開啟例子

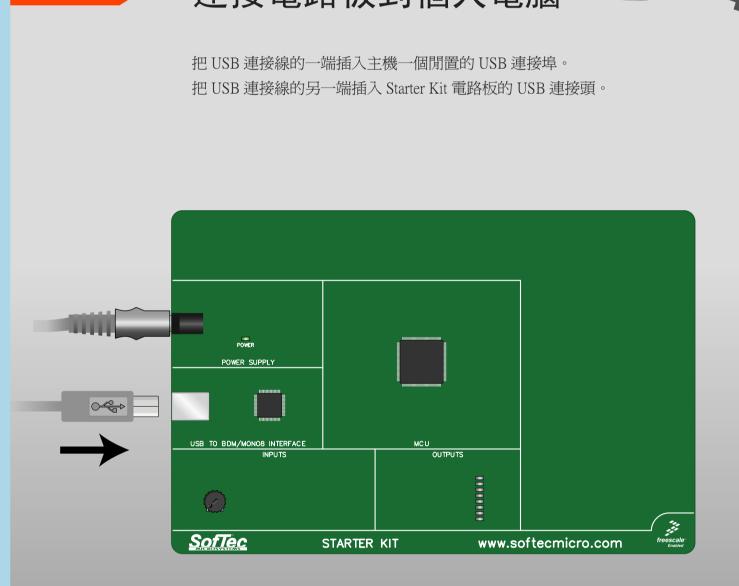


請先確定 Starter Kit 的跨接線固定於出廠時的位置。 開啓 CodeWarrior Development Studio 軟體:選擇[開始 > 所有程式 > SofTec Microsystems > SK and ZK Series > CodeWarrior Development Studio]

在主菜單選擇 [File > Open]。 在路徑 [\Program Files\SofTec Microsystems\SK and ZK Series\CodeWarrior Examples\[Your Starter Kit Model]\[Your Target Microcontroller]\Demo] 中, 選取工作區檔案 [Demo.mcp]。









新增硬體精靈

當首次連接 Starter Kit 到個人電腦, Windows 會偵察到新硬體並開啓 [新增硬 體精靈],詢問驅動程式的位置。 各 Windows 版本的安裝步驟略有不同,如您正在執行 Windows XP 版本,請

選擇[自動安裝軟體]及按一下[下一步]。

正確的驅動程式在設定 Starter Kit Additional Components 時已經安裝妥當,請 不要指定驅動程式的所在位置



註: Windows 2000 及 Windows XP 在執 行[新增硬體精靈]程序時,對此 USB 驅動程式沒有 Windows 認可的數位簽 章,可能發出有潛在的失誤及可能危 及整個系統的警告。但經本公司 SofTec Microsystems 作出深入的兼容及安全測 試,可放心略過此警告。

開始除錯時段





執行例子







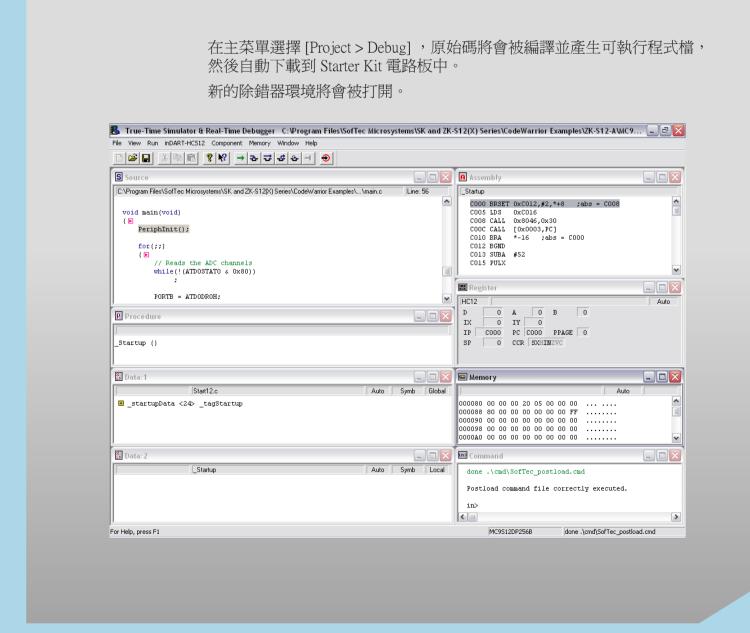


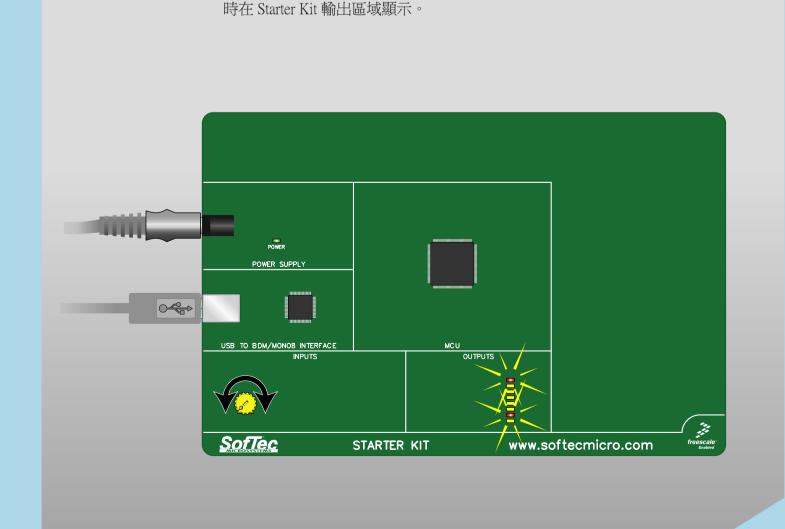
您已成功完成此教學!歡迎您繼續嘗試使用 CodeWarrior 使用者介面,並發掘該產品更多的潛能。 有關使用者介面深入的功能,請在 CodeWarrior Development Studio 中的主菜單選擇 [Help > CodeWarrior Help], 參考有關的說明。

此外,請詳細參閱 Starter Kit 內的所有文件。

有關本公司最新的軟體發佈、 產品、支援裝置、 討論區及常見問題, 請登入本公司網址:

http://www.softecmicro.com/





在主菜單選擇 [Run > Start/Continue] ,程式將會被實時執行。

轉動在 Starter Kit 電路板上的分壓計,類比/數位轉換結果將會被改動,並即



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