

Chapter 2, Installation

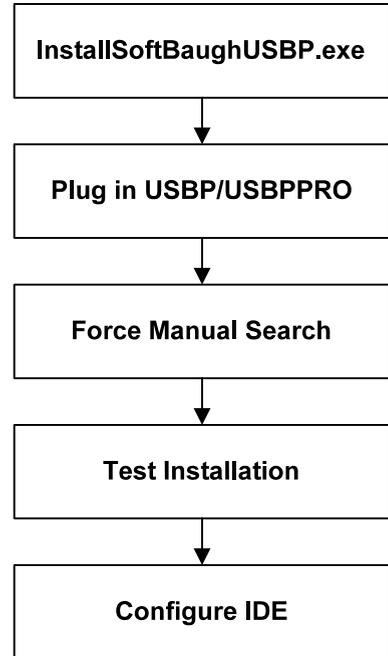
The previous chapter presented an overview of the PrgUSBP utility and USBP/USBPPRO JTAG programmers for the MSP430. This chapter gives an overview of the installation process. The next chapter presents a project sample that provides a broad spectrum of experience with using the features of the PrgUSBP software.

The installation procedure is shown to the right. But, before jumping into the installation details, let's first discuss some housekeeping information.

The view of the program that you see when executing it depends on whether you have installed any previous versions of the PrgUSBP software. For consistent results, first use the Windows uninstaller to remove any existing PrgUSBP application, then reinstall. It is not necessary to uninstall the underlying USBP drivers and DLLs, although it would not be harmful to do so as they will be overwritten accordingly.

If you have previously installed a version of the software prior to July 2007, please update your installation by uninstalling the previous version and reinstalling the current version.

The instructions in this chapter assume you are starting from a clean installation, and accept the default installation folder.



Run the Installer

The first step is to run the installation executable. This can be obtained from our website:

<http://www.softbaugh.com/downloads/InstallSoftBaughUSBP.zip>

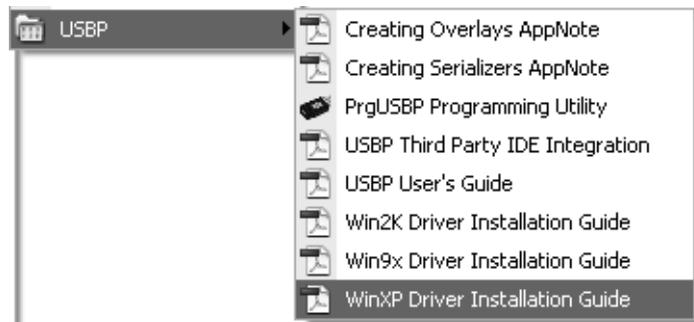
Extract the executable *InstallSoftBaughUSBP.exe* from this archive, and execute it. Accept all the default options, including the default location of the *\Program Files\SoftBaugh* folder. Your installation folder structure will now contain two high-level folders:

```

C:\Program Files\SoftBaugh\USBP\
C:\Program Files\SoftBaugh\USBP_Driver\
    
```

The former folder contains the software applications and sample projects for this book. The latter folder contains the USB drivers for the USBP and USBPPRO.

Also created is the application chain for *SoftBaugh\USBP* under the *Windows Start Menu*, as shown to the right. You will use some of these PDFs in the rest of the installation process.



Before proceeding, open the *Driver Installation Guide* PDF for your particular OS. Also open the *Third Party IDE Integration* PDF if you are going to be using the USBP for firmware development.

Windows Vista users can enjoy a special opportunity to dismiss gobs of pointless confirmations during installation. We haven't bothered to include a PDF of these driver options, so just follow along with the XP instructions and interpret accordingly.

Plug in the USBP/USBPPRO

Next, plug in the USBP or USBPPRO. The operating system will recognize the new device and attempt to load drivers. You are going to force the OS to look for the USBP or USBPPRO in the `USBP_Driver` folder.

Force Manual Search

Now, follow the instructions in your specific driver installation guide to force the drivers to install from the `C:\Program Files\SoftBaugh\USBP_Driver\` folder.

If you somehow let the OS install for you, go to *Device Manager* with the USBP plugged in and delete the driver. Then, unplug the USBP and wait a bit. After you plug the USBP back in you can now force the driver installation to use our driver folder.

Test the Installation

The USBP driver installation is tested by opening the PrgUSBP application. We will do this in the next chapter as we work through our first sample project.

All of the files for the projects in this book are contained in the `SoftBaugh\USBP\SampleProjects\` folder, wherever you installed the USBP software. The default installation path will be `C:\Program Files\SoftBaugh\USBP\SampleProjects\`. All project folders mentioned in the following chapters are relative to this folder.

Configure Your IDE

If you intend to use the USBP or USBPPRO for firmware development and debugging, you will need to configure your IDE to use this device.

If you are using an IAR installation after October, 2007, you can ignore these instructions as the newer IAR versions include native support for the USBP/USBPPRO. Otherwise, for older IAR installations and all other third party installations, follow the *Third Party IDE* PDF instructions to configure the USBP or USBPPRO for debugging.

The main objective for these third party IDE instructions is to locate the MSP430.DLL in use by your IDE, and then replace that with our MSP430.DLL and associated files. Be sure to backup your old MSP430.DLL should you wish to revert for legacy reasons. Note that we have included batch files to simplify switching back and forth.

Once you have followed one of the installation permutations relevant to you, the PrgUSBP and USBP drivers should be configured accordingly.