



How to use the Mikroe Bootloader

v1



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Introduction

The following document describes the procedure to configure and use the ProtoDev 40 and bootloader.

Note: The bootloader was installed as a courtesy to clients to facilitate the demonstration of the PCB. No charge has been affected for this and it remains the intellectual property of Mikroelektronika.

Pre-requisites

MCP2200 driver: The MCP 2200's driver can be updated using windows automatically, however if the driver is not located it can be downloaded from Microchip's web site on the following link.

Please note that if the link does not work, Microchip may have removed it or it was renamed. A Google based search should enable the relocation of the driver.

<http://www.microchip.com/wwwproducts/Devices.aspx?dDocName=en546923>

Mikroe C Compiler: <http://www.mikroe.com/mikroc/pic/>

NOTE: You can use any of the PIC Compilers i.e. Basic or Pascal

Configuring the Hardware

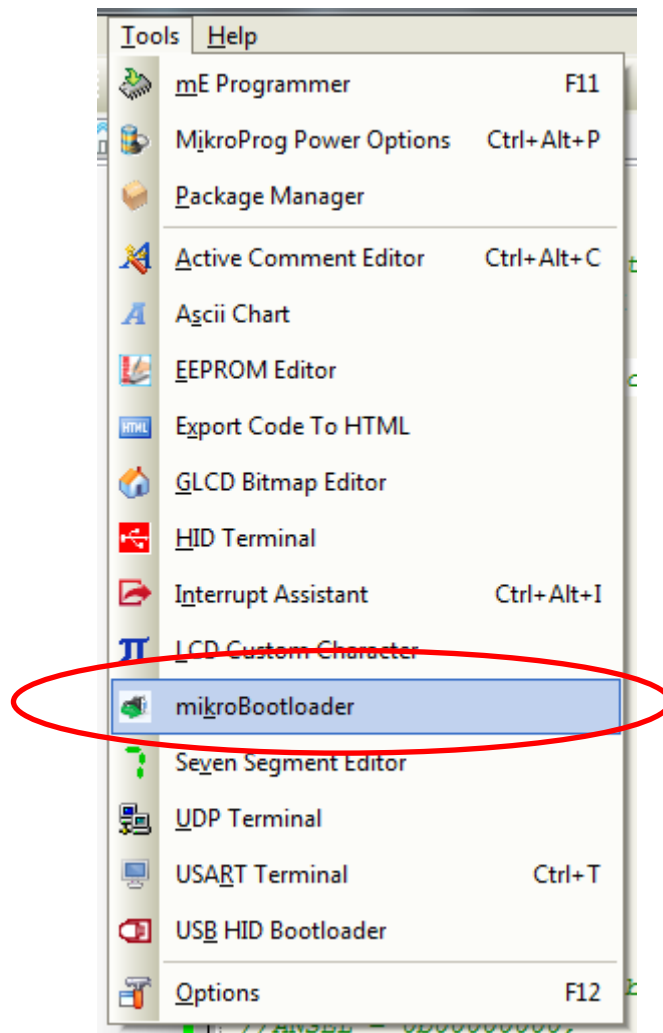
1. PWRSET jumper at 8, should be closed
2. Positions 5 | 6 should be closed

NOTE: The PCB is supplied pre-configured with these jumpers in place, so no adjustments are required.

Using the Bootloader Software

NOTE: This step assumes that the Mikroe Compiler has been installed.

To get started, Click Tools > mikroBootloader



How to use the Bootloader

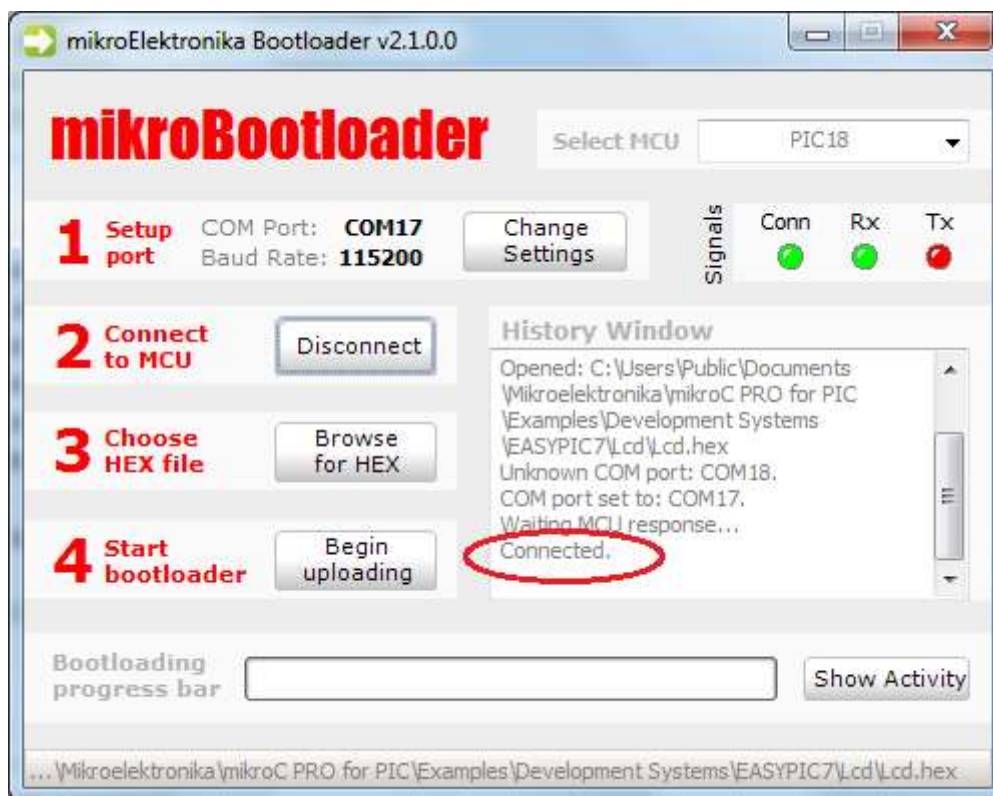
NOTE: Firmware has been installed in the PIC18F45K22, using an ICSP programmer will overwrite the ICSP programme will overwrite this firmware and render the Bootloader software unable to connect to the PCB.

Make sure that the following is in place

1. Ensure that the PCB is powered up
2. Ensure that the USB cable is connected, and the USB driver for the MCP2200 is properly installed

Bootload!

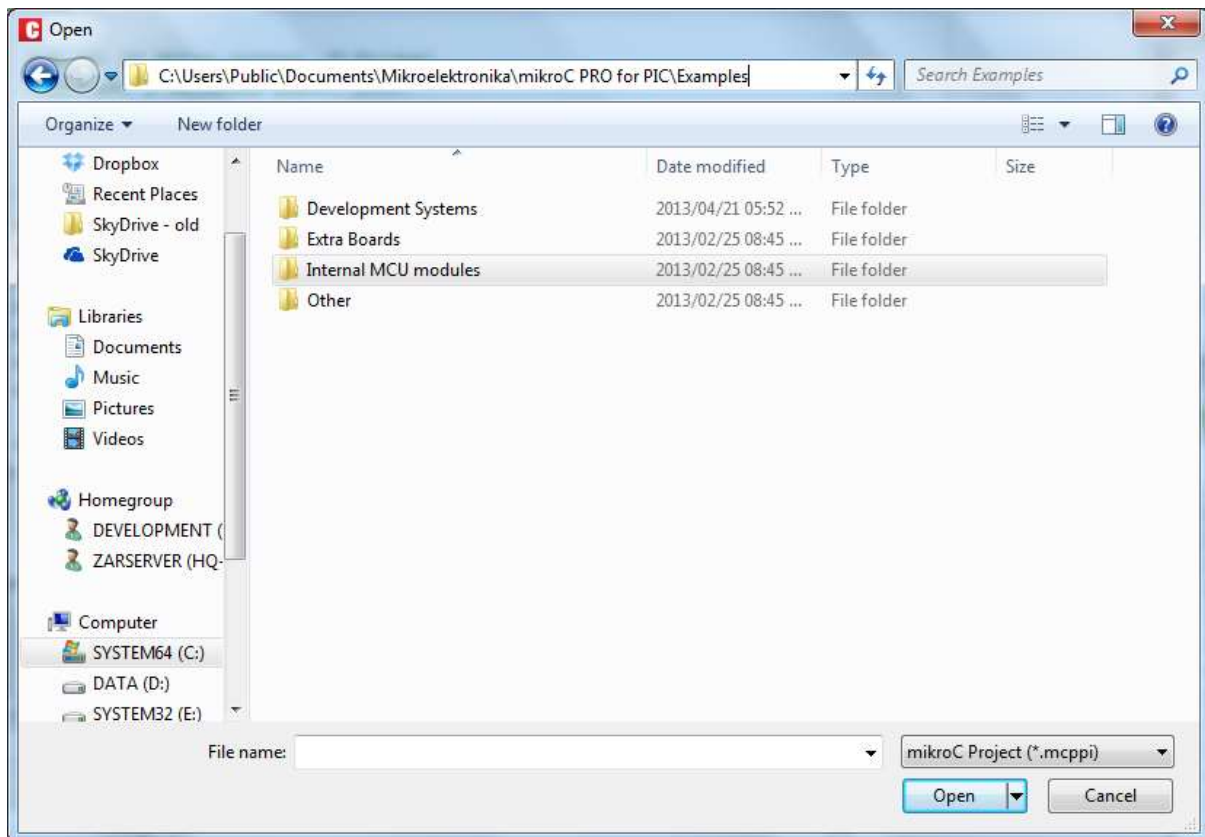
1. Click on **Change Settings** and select the COMPORT that the PCB is connected to
2. Reboot the PCB, and then quickly click the button **Connect**, the connection should be establish almost momentarily
3. Click the **Browse for Hex** button and locate the hex file to upload and select it (the Mikroe Compiler does come with some examples)
4. Click **Begin Uploading**



Summary

The above steps can be completed quite quickly and so long as you have a correctly compiled hex file, the PIC will start up after the boot load and run the installed code.

The example projects can be found here: C:\Users\Public\Documents\Mikroelektronika\mikroC PRO for PIC\Examples





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