
PIC32 Programming Procedure

Introduction

All of the Mobile Solutions Evaluation Boards (EVBs) using the Microchip PIC32 family of microcontrollers (MCUs) use the same programming procedure. This document describes the programming procedures for those EVBs. Note: the pictures may not match the specific EVB you are using, but the procedure is the same.

Required equipment

- EVB with a PIC32 MCU
- USB Type-A to USB micro-B cable (power)
- Microchip PICkit™ 3 cable (programmer)
- 1x6 pin header
- Microchip MPLAB IPE (Integrated Programming Environment)

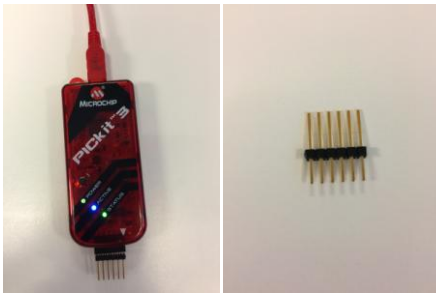


Figure 1 - Programmer and header

Powering the EVB

The target EVB must be powered on. This is accomplished by connecting the USB Type-A to USB micro-B cable from the PC to the EVB.



Figure 2 - EVB powered from PC



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Connecting the PICkit™ 3 programmer

The PICkit™ 3 programmer connects to the EVB using the 1x6 pin header. The pin 1 indicator on the programmer must align with the pin 1 indicator on the EVB. Pressure may be required to ensure the programmer header is in contact with the EVB programming through-holes.

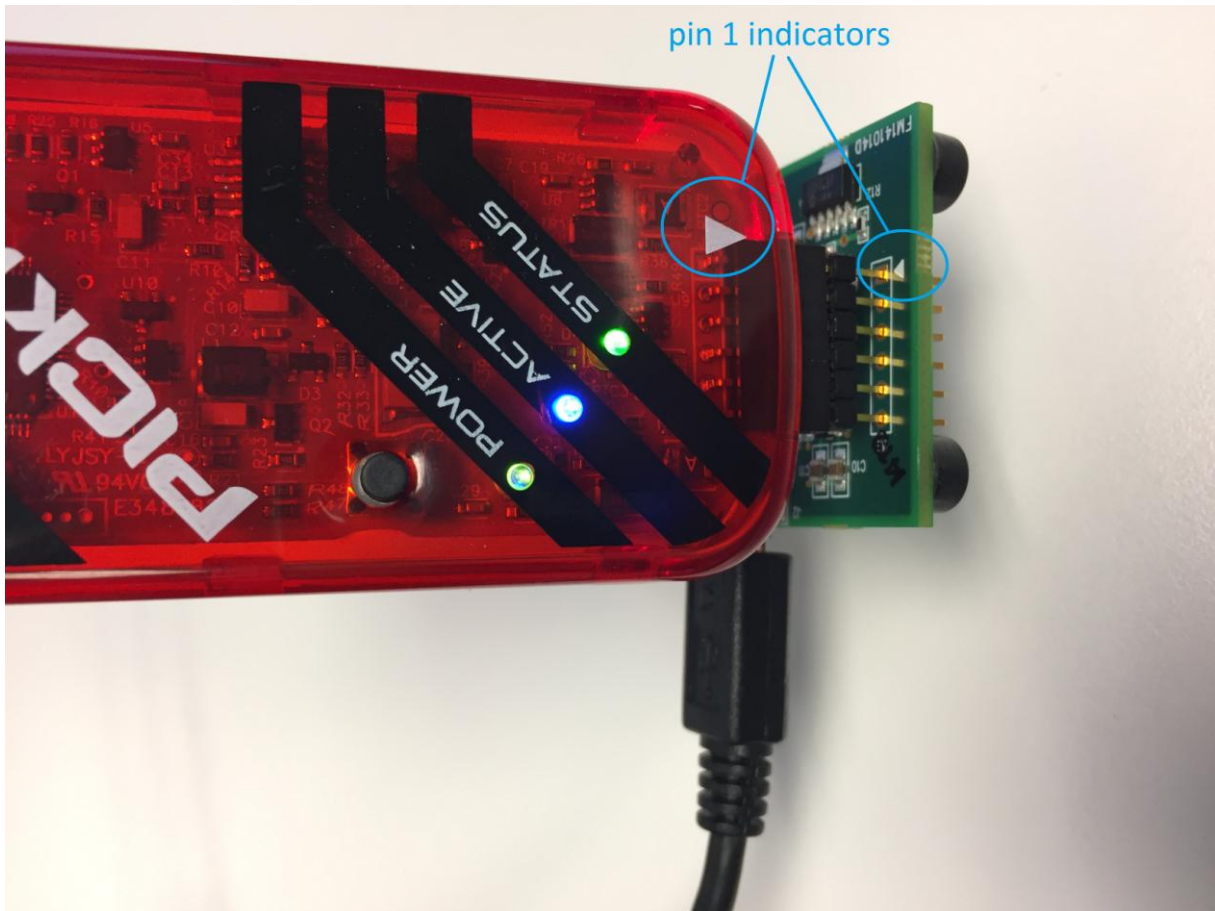


Figure 3 - PICkit™ 3 connected to powered EVB

Using the MPLAB IPE

- A. Select PIC32MX250F128B (or applicable MCU) in the Device pulldown menu.
- B. Click on the Connect button to communicate with the programmer and EVB.
- C. Select the programming file by clicking the Browse button for the Source.
- D. Click the Program button to program the EVB. This will also Verify the programming step.
- E. Disconnect the programmer and the power from the EVB.
- F. Connect power and the programmer to the next EVB, aligning the pin 1 indicators.
- G. Repeat steps D, E, and F.

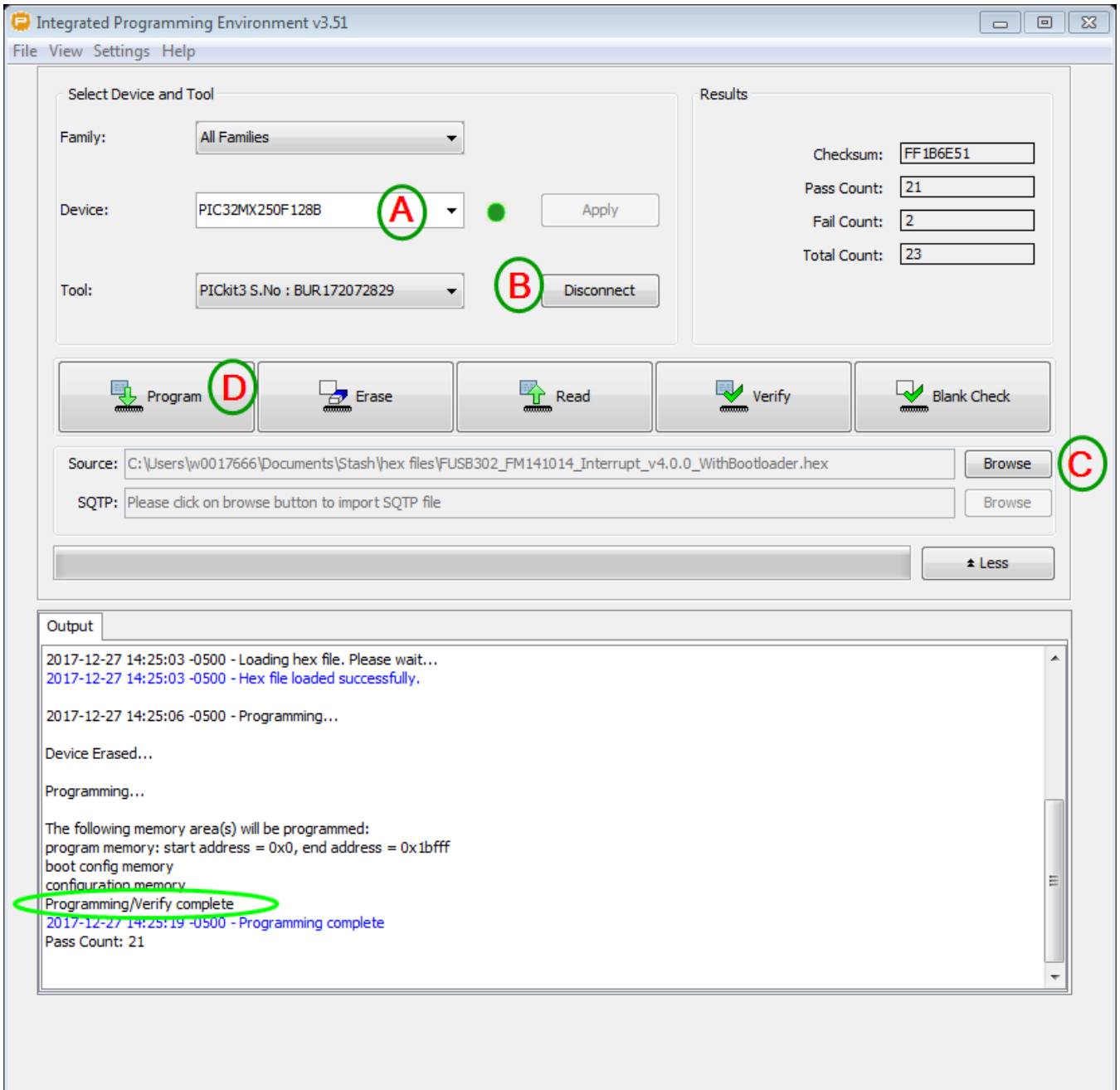


Figure 4 - MPLAB Integrated Programming Environment