PIC32 USB Starter Kit II Information Sheet

The PIC32 USB Starter Kit II (DM320003-2) provides a low-cost method for the development and testing of USB Host and Device applications with PIC32 devices. This evaluation kit includes the PIC32 USB Starter Kit II board, standard A to mini-B USB cable for the debugger, standard A to micro-B cable for the USB application development, three user-programmable LEDs and three push button switches.

Installing MPLAB® IDE and C Compilers

The MPLAB Integrated Development Environment (IDE) should be installed prior to using the PIC32 USB Starter Kit II. While MPLAB IDE provides the assembler tools for development, the Microchip demonstration code requires installation of a C compiler. Microchip's MPLAB C Compiler seamlessly integrates into MPLAB IDE. Both the MPLAB IDE and MPLAB C Compiler are free (see the note below) and are available for download at www.microchip.com/MPLAB and www.microchip.com/compilers, respectively.

> **Note:** Standard Evaluation (Free) – All optimization levels are enabled for 60 days, but then revert to optimization level 1 only.

Microchip Demonstration Code and More Information

For the free Microchip demonstration code and more information, please visit the PIC32 USB Starter Kit II page at: www.microchip.com. From the Design menu, click **Development Tools**. Then, from the Starter Kits menu, click **Starter Kits**, and then click **PIC32 USB Starter Kit II**. From the downloads section, select **PIC32 USK Port I/O Demo**.

Running the PIC32 USK Port I/O Demonstration Code

After downloading and installing the Microchip development tools, please use the following procedure to run the included Port_IO demonstration code:

1. Load the Microchip Port_IO demonstration code into MPLAB by double clicking the `*.mcp` project file.
2. Connect the mini-B USB cable to the mini-B debugger port on the PIC32 USB Starter Kit II board. Then, connect the other end of the USB cable to the USB port on the development PC.

> **Note:** If prompted, the driver for PIC32 USB Starter Kit II is located at: `<installation_dir>\Microchip\MPLAB IDE\PIC32MXSKit\Drivers.`

3. Choose the PIC32 Starter Kit debugger tool in MPLAB IDE by selecting *Debugger > Select Tool > PIC32 Starter Kit*.
4. Build the project by selecting *Project > Build All.*
5. Download your code into the evaluation board microcontroller by selecting *Debugger > Programming> Program All Memories*.
6. Run the demonstration code that was previously downloaded by selecting *Debugger > Run*.

> **Note:** For more details, refer to the `README.txt` file in the demonstration folder.