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PIC32 Starter Kit Information Sheet

The PIC32 Starter Kit (DM320001) provides a low-cost method for the development and testing of applications with PIC32 devices. This evaluation kit includes the PIC32 Starter Kit board and an A to mini-B USB cable. The PIC32 Starter Kit board features a mini-B USB port for debugging, three user-programmable LEDs and three push button switches that can be easily used with the preloaded demonstration.

Installing MPLAB® IDE and C Compilers

The MPLAB Integrated Development Environment (IDE) should be installed prior to using the PIC32 Starter Kit. 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 Starter Kit 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 Starter Kit**. From the download section, select **PIC32_SK_Port_IO_Demo**.

Running the Port I/O Demonstration Code

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

1. Load the PIC32_SK_Port_IO_Demo code into MPLAB by double clicking the `port_io_PIC32_PIC32 Starter Kit.mcp` project file.
2. Connect the mini-B USB cable to the mini-B debugger port on the PIC32 Starter Kit board. Connect the other end of the USB cable to the development PC.

Note: If prompted, the driver for the PIC32 Starter Kit 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*.