

PIC18F/LF4XJ10 Plug-In Module for PICDEM™ HPC Explorer Demo Board

Overview

The PIC18F/LF4XJ10 Plug-in Module (PIM) is an accessory to the PICDEM HPC Explorer Demo board that allows users to easily experiment with the PIC18F44J10/45J10 and PIC18LF44J10/45J10 on the demo board. The PIM takes the place of the on-board PIC18F8722 device, and changes the output of the voltage regulator on the board to the proper voltage level for these parts. This enables users to quickly evaluate the new PIC18FJ Flash devices, without having to buy a completely new demo board.

Getting Started with the PIM

1. Verify that the PICDEM HPC Explorer Demo board is not powered.
2. Set switch S3 to the "ICE" position.
3. Line up the PIM so its 3-pin female header aligns with the 3-pin riser on the HPC Explorer Demo, then plug the PIM into the demo board.
4. Apply power the demo board. Be sure that V_{DD} is correct for the device being used (3.3V for a PIC18F44J10/45J10 device, or 2.7V for a PIC18LF44J10/45J10 device).

Changes to PICDEM HPC Explorer Demo Board Configuration

The difference of available I/O pins between the PICDEM HPC Explorer Demo board's PIC18F8722 device and the PIM's PIC18F4XJ10 device causes some changes in the operation of the PICDEM HPC Explorer Demo board:

1. The I/O lines connected to J3, J5, J7 and J11 will no longer be as shown on the board silkscreen. The new connections (to the microcontroller on the PIM) are shown in Figure 1 of the schematic on the back of this page.
2. The I/O lines of PORTD and PORTF on the PICDEM HPC Explorer Demo board are now connected to PORTB and PORTD of the PIM's microcontroller.
3. The LEDs (D1 through D8) are now connected to PORTB instead of PORTD.
4. The function of the push button switch on RB0 now overlaps with LED D1, which is also driven from PORTB<0>.
5. Only the ports shown in Figure 1 (PORTA through PORTE) are available. All other ports associated with the on-board PIC18F8722 are unavailable.

When using the PIC18F/LF4XJ10 PIM, replace the appropriate parts of the original schematic with the schematic parts shown in Figure 1.

For More Information

The complete schematic and user's guide for the PICDEM HPC Explorer Demo board, as well as the data sheet for the PIC18F45J10 family of microcontrollers, are available on the Microchip web site: www.microchip.com.

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Figure 1: PIC18F/LF4XJ10 PIM Schematic

