Other Information

To obtain the most recent and complete documentation for this demonstration board, including:

- User's Guide
- Board Description
- Board Schematics
- Source Code
- Application Examples
- Links to Web Seminars

please refer to the Microchip web site: www.microchip.com

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DS41680A

F1 PSMC 28-Pin Evaluation Platform

Quick Start Guide

Overview

The F1 PSMC 28-Pin Evaluation Platform is programmed at the factory with a test program. The board does not need to be configured in any way in order to verify that the F1 PSMC 28-Pin Evaluation Platform is working. Once the board is powered up, the red LED (D2) will be illuminated by the PSMC output. The green LED (D1) is powered as long as the PIC16F1783 device is operating.

Board Setup

There is no setup for this demo board to operate.

Board Power-Up

Supplying power to the board is done in the following way:

- Use the 5-volt power setting supplied by the PICkit™ 3 or MPLAB™ ICD 3 programmers.

Board Layout

The F1 PSMC 28-Pin Evaluation Platform schematic is shown in Figure 1.
A PIC16F1783 microcontroller is populated on the top center of the demo board under the identification label U1. The PIC16F1783 has 15 available I/O pins that can be utilized using connectors P1 and P2.
Should you choose to use the board to experiment on your own, the board allows the flexibility to do so. A prototyping area is provided, with ground (GND) and supply voltage (V_{DD}) connections on the left and right sides of the board.
The F1 PSMC 28-Pin Evaluation Platform can also be used to drive any of the following F1 Motor Control add-on boards:

- DM164130-2 F1 BLDC Accessory Board
- DM164130-6 F1 BDC Motor Add-On
- DM164130-8 F1 Unipolar Stepper Motor Add-On
- DM164130-7 F1 Bi-Polar Stepper Motor Add-On

F1 PSMC 28-Pin Evaluation Platform

Figure 2: F1 PSMC 28-Pin Evaluation Platform Schematic

