Section 46. Introduction (Part V)

HIGHLIGHTS

This section of the manual contains the following major topics:

46.1 INTRODUCTION

Part V sections of the dsPIC33F Family Reference Manual provide information on modules specific to the dsPIC33F Switch Mode Power Supply (SMPS) Digital Signal Controllers (DSC). These devices include peripherals that are ideally suited for power control applications.

dsPIC33F SMPS devices feature several advanced peripherals, such as a high-resolution PWM, a high-speed (up to 4 Msps) 10-bit Analog-to-Digital Converter (ADC), and a high-speed Analog Comparator module. In addition, these devices feature Peripheral Pin Select (PPS) functionality, which provides flexibility of mapping any digital peripheral functionality to any desired digital pin.

Part V sections apply to the following dsPIC33F devices:

- dsPIC33FJ32GS406
- dsPIC33FJ32GS606
- dsPIC33FJ32GS608
- dsPIC33FJ32GS610
- dsPIC33FJ64GS406
- dsPIC33FJ64GS606
- dsPIC33FJ64GS608
- dsPIC33FJ64GS610

Table 46-1 provides a guide to specific information about these devices.

Table 46-1: Family Reference Manual Information Guide

For Information About:	See This Section:
CPU	Part I, Section 2
Data Memory	Part I, Section 3
Program Memory	Part I, Section 4
Flash Programming	Part I, Section 5
Reset	Part I, Section 8
Watchdog Timer and Power-Saving Modes	Part I, Section 9
I/O Ports	Part I, Section 10
Timers	Part I, Section 11
Input Capture	Part I, Section 12
Output Compare	Part I, Section 13
Quadrature Encoder Interface (QEI)	Part I, Section 15
Universal Asynchronous Receiver Transmitter (UART)	Part I, Section 17
Serial Peripheral Interface (SPI)	Part I, Section 18
Inter-Integrated Circuit™ (I^{2}C™)	Part I, Section 19
Enhanced Controller Area Network™ (ECAN™)	Part I, Section 21
Direct Memory Access (DMA)	Part I, Section 22
CodeGuard™ Security	Part I, Section 23
Programming and Diagnostics	Part I, Section 24
Device Configuration	Part I, Section 25
Development Tool Support	Part I, Section 26
High-Speed 10-bit Analog-to-Digital Converter (ADC)	Part IV, Section 44
High-Speed Analog Comparator	Part IV, Section 45
Interrupts	Part V, Section 47
Oscillator	Part V, Section 48
High-Speed Power Supply PWM	Part V, Section 50

46.2   REVISION HISTORY

Revision A (August 2009)

This is the initial released version of this document.

NOTES: