



Section 27. dsPIC30F SMPS Devices

27.1 INTRODUCTION

Part II of the dsPIC30F Family Reference Manual provides information on modules specific to the dsPIC30F Switch Mode Power Supply (SMPS) digital signal controllers. The dsPIC30F SMPS family of devices includes peripherals that are ideally suited for power control applications. These peripherals include a high-resolution PWM module, a 10-bit 2 Msps Analog-to-Digital Converter module and an Analog Comparator module.

The dsPIC30F SMPS DSCs include the following specific devices:

- dsPIC30F1010
- dsPIC30F2020
- dsPIC30F2023

Following is a roadmap to specific information about these devices:

For Information About:	See This Section:
Device Overview	Part I, Section 1
CPU	Part I Section 2
Data Memory	Part I, Section 3
Program Memory	Part I, Section 4
FLASH and EEPROM Programming	Part I, Section 5
I/O Ports	Part I, Section 11
Timers	Part I, Section 12
Input Capture Module	Part I, Section 13
Output Compare Module	Part I, Section 14
I ² C Module	Part I, Section 21
Development Tool Support	Part I, Section 25
CodeGuard™ Security	Part I, Section 26
Interrupts	Part II, Section 28
Oscillator	Part II, Section 29
Power Supply PWM	Part II, Section 30
10-bit 2 Msps A/D Converter	Part II, Section 31
Analog Comparator Module	Part II, Section 32
Device Configuration	Part II, Section 33
UART	Part II, Section 34
SPI	Part II, Section 35
Watchdog Timer and Power-Saving Modes	Part II, Section 36

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