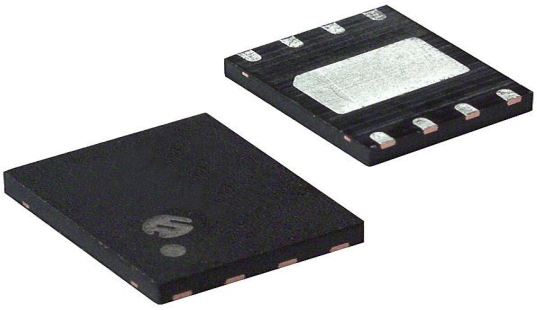
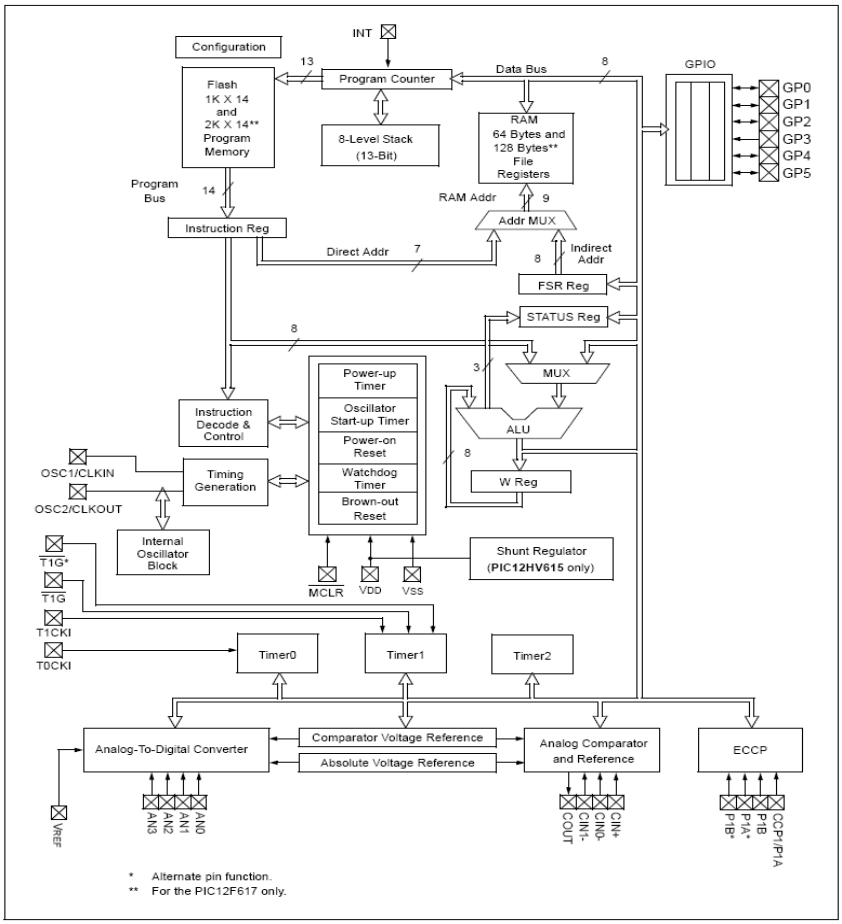
PIC12F617 8-Pin, Flash-Based 8-Bit CMOS Microcontrollers

General Description:



The PIC12F family in available in small 8-pin packages, while PIC16F variants are offered in 14-pin through 64-pin packages. These family devices are suitable for proportion control (Level 2 integration). Some variants in the PIC16F family have one or more enhanced capture compare PWM (ECCP) modules that can be used to generate references for analog control loops. Built-in ADCs can be used to monitor input/output voltage and current and temperature. Comparators can be used to monitor fault inputs. Communication peripherals like UART, SPI and I2C™ can be used for remote monitoring and control.



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Key Features:

- Up to 5 MIPS of operation
- One or more ECCP modules
- Comparator with input multiplexer
- 8-bit or 10-bit ADC
- Internal RC Oscillator
- Internal 5V Shunt Regulator
- Communication interfaces: USART, SPI, I2C
- Self Read-Write Flash Program Memory
- Internal 4/8MHz oscillator
- Comparator with hysterisis (user configurable)
- Mid-Range core with 35 Instruction, 8 Stack Levels
- 25mA Source/Sink current I/O
- Two 8-bit Timer (TMR0/TMR2)
- One 16-bit Timer (TMR1)
- Watchdog Timer (WDT)
- Enhanced Power-On/Off-Reset
- Brown-Out Reset (BOR)
- In Circuit Serial Programming (ICSP)
- Enhanced Capture Compare PWM (Pulse Width Modulation)
- Wide Operating Voltage (2.0V – 5.5V)

Applications:

- High speed automotive and appliance motor control
- Low power remote transmitters/receivers
- Pointing devices
- Telecom processors

Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
PIC12F617-E/MF	1778431	53R0202	MCU, 8BIT, 3.5K FLASH, 6 I/O, 8DFN
PIC12F617-E/MS	1778433	53R0203	MCU, 8BIT, 3.5K FLASH, 6 I/O, 8MSOP
PIC12F617-E/P	1778434	53R0204	MCU, 8BIT, 3.5K FLASH, 6 I/O, 8PDIP
PIC12F617-I/MF	1778435	53R0206	MCU, 8BIT, 3.5K FLASH, 6 I/O, 8DFN
PIC12F617-I/MS	1778436	53R0207	MCU, 8BIT, 3.5K FLASH, 6 I/O, 8MSOP
PIC12F617-I/P	1778437	53R0208	MCU, 8BIT, 3.5K FLASH, 6 I/O, 8PDIP
PIC12F617-I/SN	1778438	53R0209	MCU, 8BIT, 3.5K FLASH, 6 I/O, 8SOIC

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