Introduction to PIC Microcontroller

A microcontroller has 3 basic parts:

- The CPU core
- Memory (both ROM and RAM)
- Digital I/O
Basic Block Diagram Structure
MICROCHIP Microcontroller Family
Main features of the 16 family

- Operating speed DC-10 Mhz clock input
- RISC CPU 35 single-word instructions
- Timer
- Different Interrupt sources
- Size memories (RAM, ROM) and an additional features vary by the type of microcontroller
Benefits of the PIC Microcontroller

- Faster speed
- Lower cost
- Easier and quicker development
Programming languages

- ASSEMBLY language
- C language
- BASIC language
PIC programming overview

Programming PIC microcontrollers is a simple 3 steps process:

- Write the code
- Compile the code
- Upload the code into a microcontroller
Examples of applications

- Vehicle systems (example ABS)
- Alarm systems and fire detection
- Home security systems
- Home automation systems
- Telecommunications systems
For more information please visit:

MicrocontrollerBoard.com