The PIC CONTROLLER

The PIC controller stands for Peripheral Interface Controller , which is a special type/kind of microcontroller chip. A micro controller chip is a microcomputer with computational functions used for controlling and governing embedded system operations in various instruments and appliances. A typical PIC controller will have peripherals , memory storage device and processor. It is widely available and is cost efficient. It has an easily reprogrammable built-in EPROM.

Every PIC controller has a set of registers , which is used to compensate the functionality of the RAM.The stacks present within the PIC are used to store and return addresses.Even though the stack was not programmable using a software earlier, the later models rectified this limitation.

The GSM MODULE

GSM module is a mobile communication module. It stands for global system for mobile communication. Data services and mobile voice can be send over/ transmitted over an open channel with the help of the GSM. It operates over frequency bands 800-1900 MHz.GSM uses TDMA (Time Division Multiple Access) for the communication procedure. Can even transmit at the speed of 120mbps.

The module can be chips can use macro, micro, pico and umbrella cells for architectural purposes.Each cell varies based on the implementation domain. TDMA is the process by which each user is allotted with/over the same frequency band for the purpose of transmission of the data respectively.

**Features of GSM Module:**

* Improved spectrum efficiency
* International roaming
* Compatibility with integrated services digital network (ISDN)
* Support for new services.
* SIM phonebook management
* Fixed dialing number (FDN)
* Real time clock with alarm management
* High-quality speech
* Uses encryption to make phone calls more secure
* Short message service (SMS)