

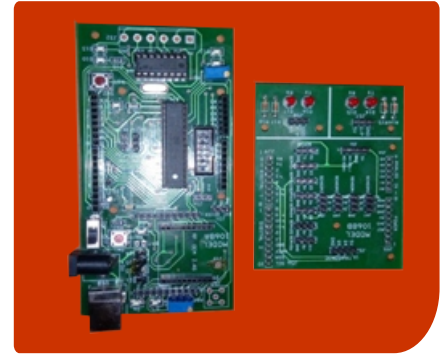
ARDUINO WITH XBEE

INTRODUCTIONS

The Arduino Uno is a microcontroller board based on the ATmega328. It has 14 digital input/output pins (of which 6 can and a reset button. It contains everything needed to support the microcontroller; simply connect it to a computer with a USB cable or power it with a AC-to-DC adapter or battery to get started. On board xbee helps this board for wireless networking applications.

SPECIFICATION

Microcontroller	ATmega328
Operating Voltage	5V,2A
Digital I/O Pins	14 (of which 6 provide PWM output)
Analog Input Pins	6
DC Current per I/O Pin	40 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB (ATmega328) of which 0.5 KB used by bootloader
SRAM	2 KB
EEPROM	1KB
Clock Speed	16 MHz
Communication	USB2.0,XBEE



COMMUNICATION

- On board Bluetooth(7,8)PINS is used to have wireless communication .for ANDROID APPLICATIONS,AND WIRELESS MATLAB AND LABVIEW CONTROL The Arduino Uno has a number of facilities for communicating with a computer another Arduino, or other microcontrollers. The ATmega328 provides UART TTL (5V) serial communication, which is available on digital pins 0 (RX) and 1 (TX).



MOTOR DRIVER

- It has A On Board DC Motor Driver To Drive Dc Motor For Driving Robots Or Conveyer Belt Or To Operate A Relay.



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