

# 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.

## Specifications

- |                         |   |
|-------------------------|---|
| Microcontroller         | ATmega328   |
| Operating Voltage       | 5V  |
| 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 K B (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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