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The Arduino Uno is a microcontroller board based on the ATmega328 (datasheet). It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, 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.

The Uno differs from all preceding boards in that it does not use the FTDI USB-to-serial driver chip. Instead, it features the Atmega8U2 programmed as a USB-to-serial converter.

"Uno" means "One" in Italian and is named to mark the upcoming release of Arduino 1.0. The Uno and version 1.0 will be the reference versions of Arduino, moving forward. The Uno is the latest in a series of USB Arduino boards, and the reference model for the Arduino platform; for a comparison with previous versions, see the index of Arduino boards.

### **Technical Specifications**

|                                          |                                                      |
|------------------------------------------|------------------------------------------------------|
| Microcontroller                          | ATmega328                                            |
| Operating Voltage                        | 5V                                                   |
| Supply Voltage (recommended)             | 7-12V                                                |
| Maximum supply voltage (not recommended) | 20V                                                  |
| 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 (ATmega328)                                     |
| EEPROM                                   | 1 KB (ATmega328)                                     |
| Clock Speed                              | 16 MHz                                               |

If you want to give a closer look to this board we advice you to visit the official Arduino UNO page in the Hardware Section.

