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### Arduino MEGA 2560-Rev3

The Arduino Mega 2560 is a microcontroller board based on the ATmega2560 (datasheet). It has 54 digital input/output pins (of which 14 can be used as PWM outputs), 16 analog inputs, 4 UARTs

(hardware serial ports), a 16 MHz crystal oscillator, a USB connection, a power jack, an ICSP header, and a reset button.

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You see the Arduino Mega 2560 board has an ATmega 8 or 16 as the UART. In this instructables I was using an FTDI converter. I would have continued to make some board support for this DIY Mega, however.... it burnt out. When soldering in the oscillator crystal, make sure it DOES NOT SHORT THE LEADS.

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The Mega 2560 is an update to the Arduino Mega, which it replaces. The Mega2560 differs from all preceding boards in that it does not use the FTDI USB-to-serial driver chip. Instead, it features the ATmega16U2 (ATmega8U2 in the revision 1 and revision 2 boards) programmed as a USB-to-serial converter.

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