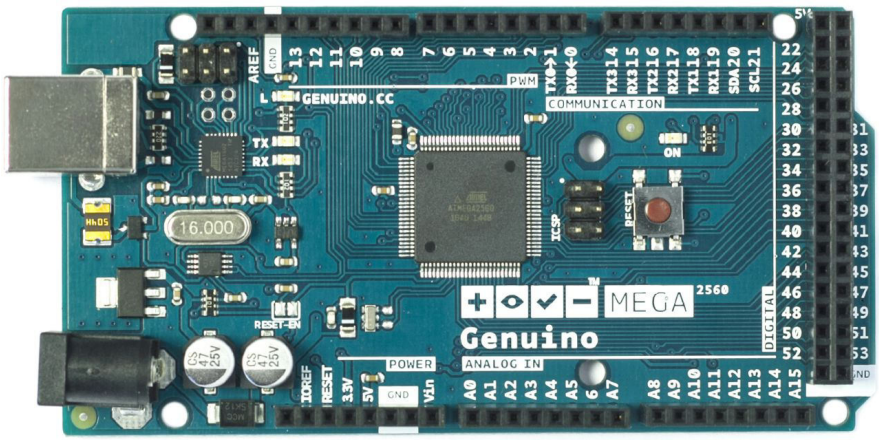
GENUINO MEGA 2560 (GBX00067)

Think big, think Genuino Mega! Designed for your most ambitious projects which require additional pins and extra memory.



Overview

Don't limit your projects, think big, think MEGA! Genuino Mega 2560 has been designed with bigger and more ambitious projects in mind. The large number of analog and digital pins, together with a larger memory makes it ideal for devices like 3D printers and other demanding applications. Backward compatibility with existing shields and sketches is provided, but other shields target the Mega specifically, exploiting the full potential of this board.

Technology

The Mega 2560 is a board based on the 8-bit AVR microcontroller ATmega2560 by Atmel. It has 54 digital input/output pins (of which 15 can be used as PWM outputs), 16 analog inputs, 4 UARTs (hardware serial ports). It contains everything needed to support the microcontroller; simply connect it to a computer with a USB cable. The Mega 2560 board is compatible with most shields designed for the Uno. To compare this board to the current, past or outdated boards see the Comparison Page.

Specifications

Microcontroller	ATmega2560
Operating Voltage	5V
USB	1 - Type B
Digital I/O Pins	54
PWM Pins	15
Analog Input Pins	16
DC Current per I/O Pin	20 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	256 KB
SRAM	8 KB
EEPROM	4 KB
Clock Speed	16 MHz
Length	101.52 mm
Width	53.3 mm
Weight	37 g

Documentation

Genuino Mega 2560 is open-source hardware! These are the relevant files:
Schematics - Reference Design - Board size

If you want more information about programming the Genuino Mega 2560 or how to interface hardware with it, please go to the Product Page.
Genuino Mega 2560 is programmed, as all the other Genuino boards with the Software (IDE) that you can download for free. To find inspiration for what you can do with the Genuino Mega 2560, please visit the Genuino.cc Tutorials Page and take part in the community the lively discussions on the Forum.