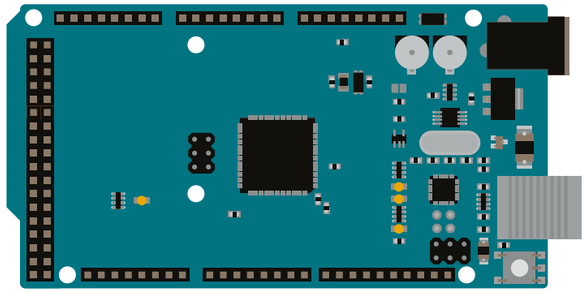

Mega 2560 Rev3

The 8-bit board with 54 digital pins, 16 analog inputs, and 4 serial ports.

QUICKSTART GUIDE PINOUT DATASHEET

Main Features

The Arduino Mega 2560 is a microcontroller board based on the ATmega2560. It has 54 digital input/output pins (of which 15 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.

ATmega2560

The high Performance, low power AVR® 8-bit microcontroller.

DATASHEET

EEPROM

The ATmega2560 features 4kb (4096 bytes) of EEPROM, a memory which is not erased when powered off.

54 digital and 16 analog pins

The Mega 2560 has 54 digital pins, whereas 15 supports PWM (Pulse Width Modulation), and 16 analog input pins, the most of any Arduino board.

Four serial ports

Connect to several devices through the 4x hardware serial ports (UARTs).

Here you will find the technical specifications for the Arduino® Mega 2560 Rev3.

Board	**Name**	Arduino® Mega 2560 Rev3
	SKU	A000067
Microcontroller	ATmega2560	
USB connector	USB-B	
Pins	**Built-in LED Pin**	13
	Digital I/O Pins	54
	Analog input pins	16
	PWM pins	15
Communication	**UART**	Yes, 4
	I2C	Yes
	SPI	Yes
Power	**I/O Voltage**	5V
	Input voltage (nominal)	7-12V
	DC Current per I/O Pin	20 mA
	Supported battery	9V battery
	Power Supply Connector	Barrel Plug
Clock speed	**Main Processor**	ATmega2560 16 MHz
	USB-Serial Processor	ATmega16U2 16 MHz
Memory	**ATmega2560**	8KB SRAM, 256KB FLASH, 4KB EEPROM

Compatibility

Software & Cloud

The following software tools allow you to program your board both online and offline.

Arduino IDE | Arduino CLI | Web Editor

Hardware

The hardware listed below is compatible with this product.

Essentials

First Steps

Quickstart Guide

Suggested Libraries

Wire

Arduino Basics

Built-in Examples

SPI

The SPI library allows you to communicate with SPI devices, with the Arduino as the controller device.

Servo

The Servo library allows an Arduino board to control RC (hobby) servo motors.

Learn

Discover interesting articles, principles and techniques related to the Arduino ecosystem.

Language References

Arduino programming language can be divided in three main parts: functions, values (variables and constants), and structure.

Resources

Interactive Viewer

Interact with the schematics, the PCB and a 3D model of the product.

Open Viewer

Pinout Diagram

A diagram showing the functions and the arrangement of the pins on your product.

Open Diagram

Schematics

CAD Files

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