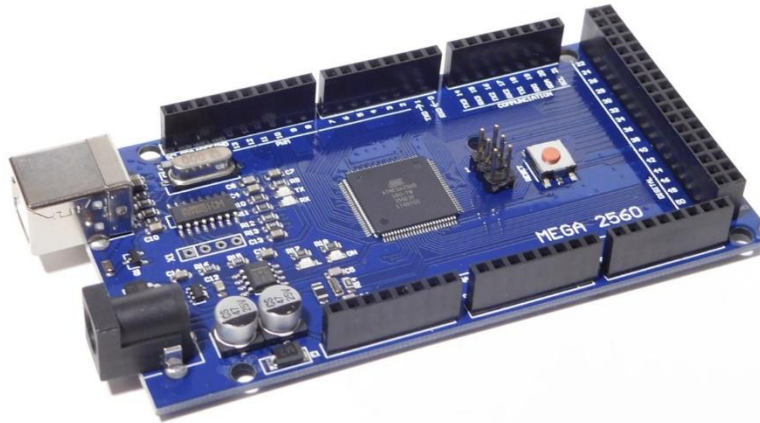


Arduino-compatible MEGA 2560



The Arduino Mega 2560 R3 compatible module with CH340 USB UART is a microcontroller board based on the ATmega2560. It is designed to be compatible with the popular Arduino Mega 2560 R3 board and provides a low-cost alternative for users who want to use the ATmega2560 microcontroller in their projects. The board features a CH340 USB-to-serial converter, which allows it to be connected to a computer via USB for programming and communication purposes. The ATmega2560 microcontroller has 256 KB of flash memory, 8 KB of SRAM, and 4 KB of EEPROM, and runs at a clock speed of 16 MHz. The Arduino Mega 2560 R3 compatible module has many digital and analog input/output pins, making it suitable for complex projects that require a high number of inputs and outputs. The board is compatible with a wide range of shields (expansion boards) and is commonly used for DIY electronics projects, hobbyist inventions, and educational purposes.

This MEGA 2560 R3 module has been developed as 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, and 4 UARTs (hardware serial ports). Furthermore, it has 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 an AC-DC adapter or battery. The Mega 2560 board is compatible with most shields designed for the Uno and the former boards Duemilanove or Diecimila. The Mega 2560 is designed as an update to the former Arduino Mega.

This MEGA 2560 board is 100% compatible with Arduino and the Arduino IDE. It has the CH340G USB chip on board (driver for Linux, Windows, and Mac OS available).

- Microcontroller: ATmega2560
- Operating Voltage: 5V
- Input Voltage: 7-12V
- Digital I/O Pins: 54 (of which 15 provide PWM output)
- Analog Input Pins: 16
- DC Current per I/O Pin: 20 mA
- DC Current for 3.3V Pin: 50 mA
- Flash Memory: 256 KB of which 8 KB is used by the bootloader
- SRAM: 8 KB
- EEPROM: 4 KB
- Clock Speed: 16 MHz
- LED_BUILTIN: 13
- Length: 101.52 mm
- Width: 53.3 mm
- Weight: 37 g

The MEGA 2560 R3 is the better choice for more complex projects. With lots of digital and analog I/O pins and larger memory for your sketch, it is the recommended board for 3D printers and robotics projects. This gives your projects plenty of room and opportunities.

We recommend downloading the required USB driver for the CH340 USB chip only from WCH official website.