35705-MP
16MHz Clone Arduino MEGA2560-R3 2014 Upgraded
MEGA16U2 USB Controller

The Mega 2560 R3-2014 Clone is a updated version microcontroller board based on the ATMEGA 256016u and the MEGA16U2 USB communication chip.

Board can be programmed with the Arduino Software (IDE) It has 16 analog inputs, 4 uarts (hardware serial ports), 16 MHz crystal oscillator, a USB connection, a power connector, an ICSP header and a reset button. Contains everything necessary to support the microcontroller; Simply connect it to a computer with the USB cable or power it with an AC-DC adapter. The Mega is compatible with most of the shields designed for the Duemilanove or Diecimila.

ATMEGA2560-16u microcontroller

Flash Memory: 256 KB (8 KB used by bootloader)

SRAM: 8 KB

EEPROM: 4 KB

Clock speed: 16 MHz

Operating Voltage: 5 V

Input Voltage (recommended) 7-12 V

Input voltage: 6-20VDC

Digital I/O: 54 (15 provide PWM output)
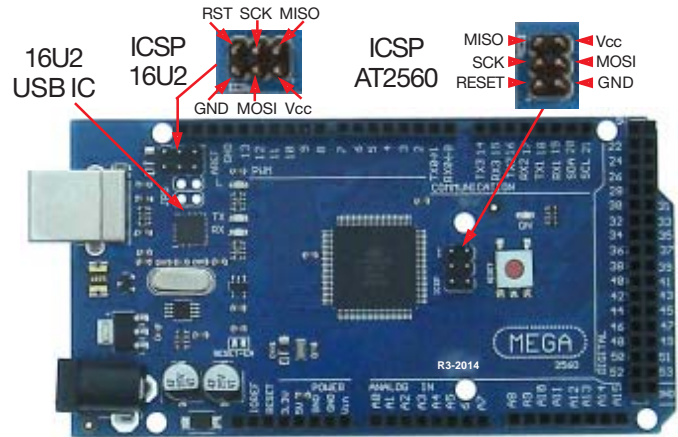
Analog Inputs: 16

I/O Pin Current: 40 mA

Current for 3.3 V pin: 50 ma

USB port: Type B Female

Power Port: 5.5mm X 2.1mm Coaxial Power Jack

Includes 18in. USB cable

L: 4-3/8" O/A   **W:** 2-1/8"   **H:** 1/2"   **WT:** .15

Information Subject to Change Without Notice
All rights are retained by the respective Owners/Author(s)

35705-MP
16MHz Clone Arduino MEGA2560-R3 2014 Upgraded
MEGA16U2 USB Controller

USEFUL MEGA LINKS
https://www.arduino.cc/en/Guide/ArduinoMega2560

ARDUINO IDE (Windows/Linux/Mac)
https://www.arduino.cc/en/Main/Software

Resetting UNO or MEGA Boards
https://nemochronicles.wordpress.com/2014/10/14/reset-the-atmega8u2-atmega16u2-of-your-dead-arduino-mega-uno/

USEFUL LINKS FOR ATMEL MEGA16U2 USB CHIP

Data Sheet
https://www.microchip.com/wwwproducts/en/ATmega16U2#datasheet-toggle

Drivers
http://semantic.gs/atmega16u2_driver_download

https://forum.arduino.cc/index.php?topic=149111.0