ARDUINO UNO SMD R3 Improved Version CH340 Chip

OVERVIEW

Arduino Uno is a microcontroller board based on the ATmega328P. It has 14 digital input/output pins (of which 6 can be used as PWM outputs), 6 analog inputs, a 16 MHz ceramic resonator , 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 a AC-to-DC adapter or battery to get started.

This is UNO R3 CH340G ATMega328P compatible with Arduino + Cable for Uno R3. A basic Arduino kit with all the components included eliminating the time our customers for finding and buying Arduino and its basic accessories.

Uno R3 CH340G ATmega328p Development Board is the low-cost version of the popular Uno R3 Arduino. It is assembled with the CH340 USB to Serial converter chip, instead of using an Atmega16U2 chip.

We have used plenty of these low-cost Arduino boards with CH340 chips, and have found them to work perfectly. The only time the CH340 chip is used is during programming and when using the serial output of the USB port. During normal operation, this board is identical to the more expensive version without CH340 chip.

The pack includes good quality USB-A to USB-B type Arduino connecting cable. It is a Plug-N-Play provision. Let's start coding now!!!!

Main changes from the older version:

1. Two rows of the holes for the pins (Male and Female). So it can be connected with normal Female Jumpers.

2. Additional 3 rows of the holes for wiring.

3. Changes to the DIP package of ATMEGA328P to flat package.

4. CH340G replaces the ATmega16U2

Specifications and Features:

UNO R3 Arduino CH340G

- Microcontroller ATmega328 (SMD) – Interface CH340G
- Operating Voltage: 5V
- Input Voltage (recommended): 7-12V
- Input Voltage (limits): 5-20V
- Digital I / O Pins 14 (of which 6 provide PWM output)
- Analog Input Pins: 6
- DC Current per I Pin: 40 mA
- DC Current for 3.3V Pin: 50 mA
- Flash Memory: 32 KB (ATmega328) of which 0.5 KB used by boot loader
- SRAM: 2 KB (ATmega328)
- EEPROM: 1 KB (ATmega328)

- Clock Speed: 16 MHz
- Power Supply Option: DC Jack or USB
- On Board LEDs: On/Off, L (PIN 13), TX, RX
- Operating Temperature (°C): -40 to +90
- Dimensions in mm (LxWxH): 75 x 54 x 12
- Weight (gm): 26
- Shipment Weight: 0.16 kg
- Shipment Dimensions: 12 × 8 × 4 cm

Cable for UNO Arduino:

- Length 1 foot
- Hot Pluggable.
- Fully compatible with PC.
- Moulded strain relief and PVC over moulding to ensure a lifetime of error-free data transmissions.
- Aluminium under-mould shield helps meet FCC requirements on KMI/RFI interference.
- Foil and braid shield complies with fully rated cable specifications reducing EMI/FRI interference.
- For Error-Free High-Performance Transmission.

How to use:

1. Download the IDE Arduino

Link: http://arduino.cc/en/Main/Software (Copy to open)

2. Download the USB chip driver

Link: http://www.5v.ru/zip/ch341ser.zip (Copy to open)

3. Plug in UNO development board, the driver will be installed automatically

4. Select the UNO from the die

5. Select the COM port

6. The best choice first, Arduino comes with routine procedures, burn into it.

Package Includes :

1 x UNO R3 Arduino.

1 x Cable for UNO.