

# Arduino UNO R3

## CH340 Driver installation

### V. 1.1



## Revised Version Of History

Date	Version	Description	Author
<b>2020/6/9</b>	V. 1. 1	Create	Tom

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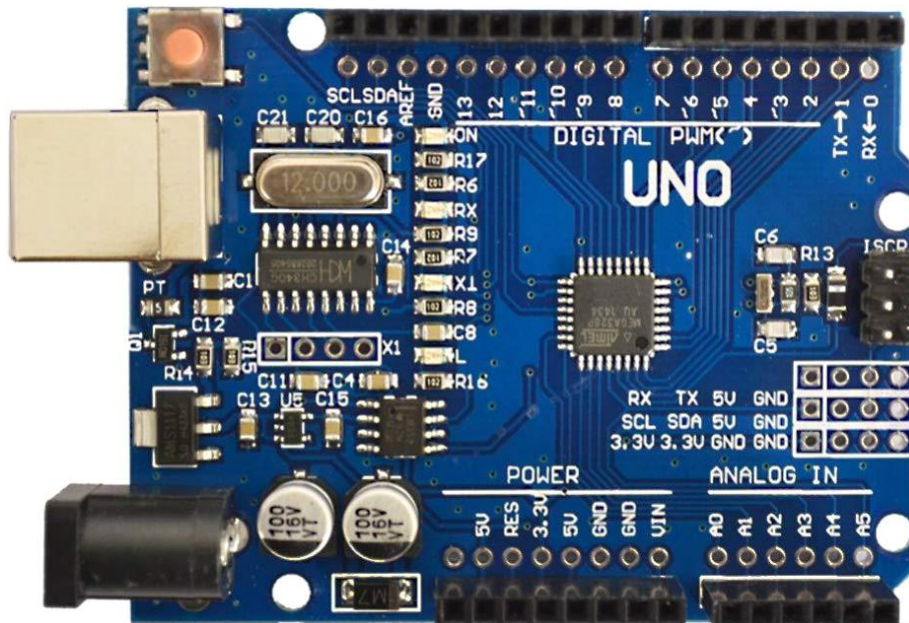


Figure 1.1.1

## 1.1 Specifications

- Working voltage: 5V
- Input voltage: 7V~12V DC or USB Power;
- Output voltage: 5V DC output, 3.3V DC output, extern power
- Microcontroller: ATmega328
- USB to serial chip (CH340) replaces ATmega16u2
- ATmega328P is programmed by DIP package and QFN package to reduce production cost
- Bootloader:Arduino Uno
- Clock rate:16 MHz
- Support USB port agreement and USB charging(no other battery needed)
- Support ISP download
- Digital I/O port: 14(4 PWM outputs)  
Analog input port:6
- DC current I/O port: 40 mA
- DC current 3.3V port: 50mA
- Flash momory: 32KB (ATmega328)(0.5 KB for boot program)
- SRAM:2 KB (ATmega328)



- EEPROM:1 KB (ATmega328)
- Dimensions:75\*55\*15mm

## Chapter2 Install Driver

### 2.1 Install Driver

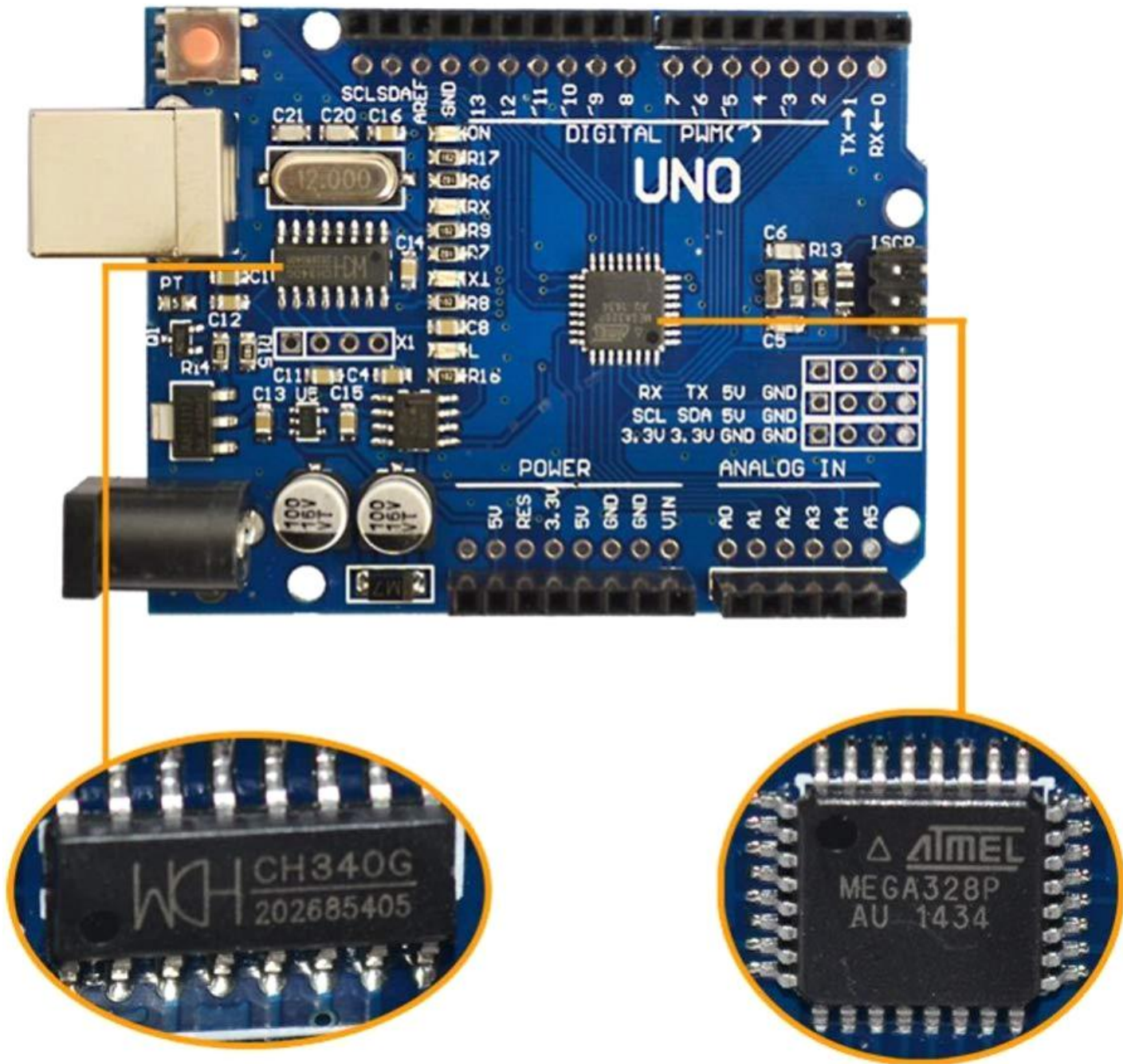


Figure 2.1.1

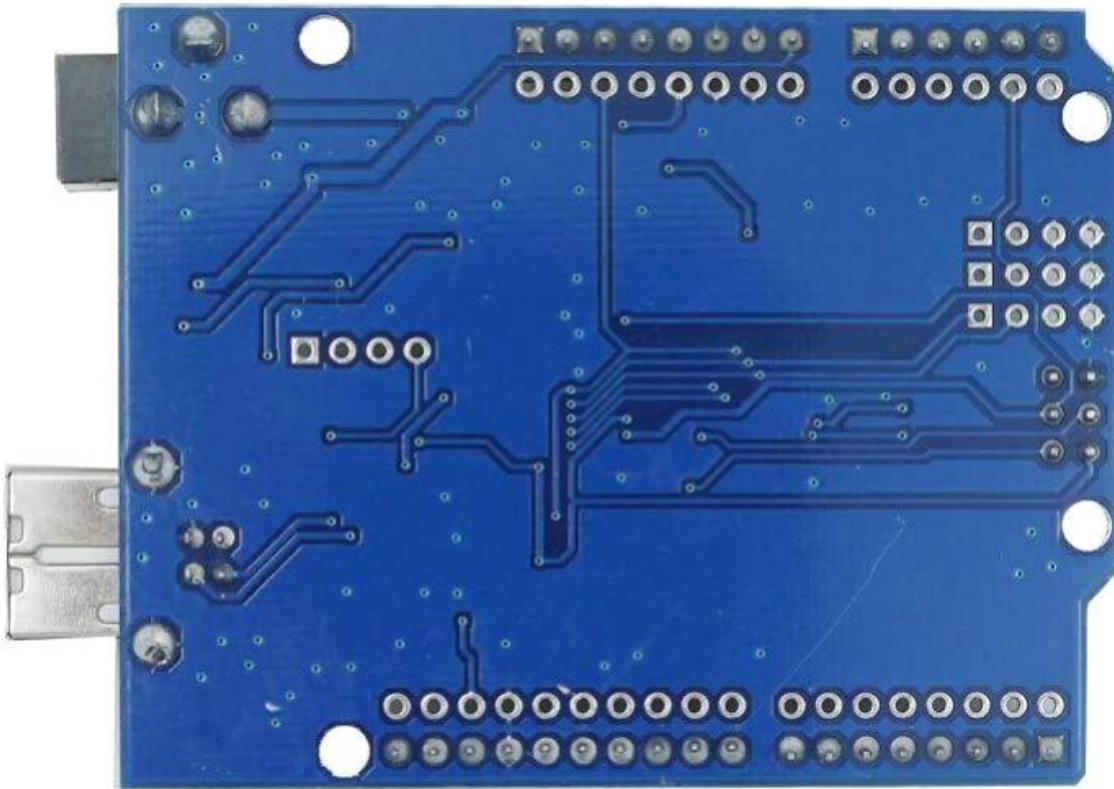


Figure 2.1.2

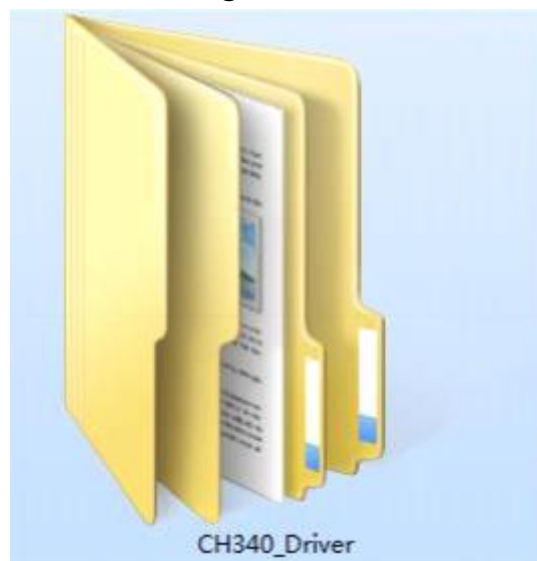


Figure 2.1.3

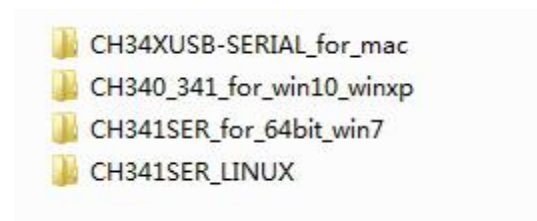


Figure 2.1.4

## If your computer is a Windows 7 system

- 1) Right-click on "My Computer" and open the Device Manager, find viewing the ports (COM and LPT). At this point you will see a "USB2.0-Serial", right-click "USB Serial " and select the "Update Driver Software" option



Figure 2.1.5 Updated Driver Interface

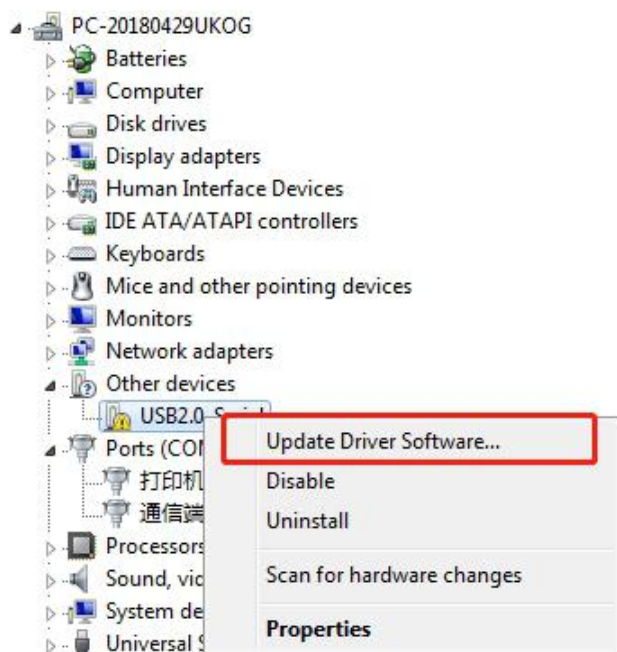


Figure 2.1.6

2) Next, select the "Browse my computer for driver software" option.

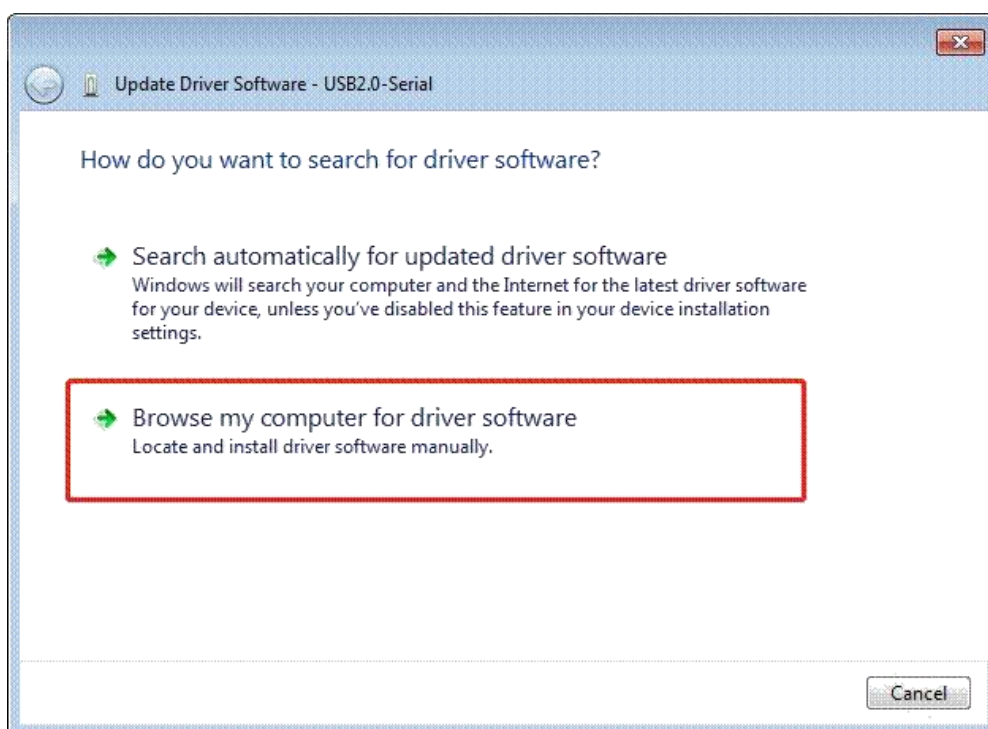


Figure 2.1.7 Driver Updata Selection Screen



3) click "next", as shown in figure 2.1.8

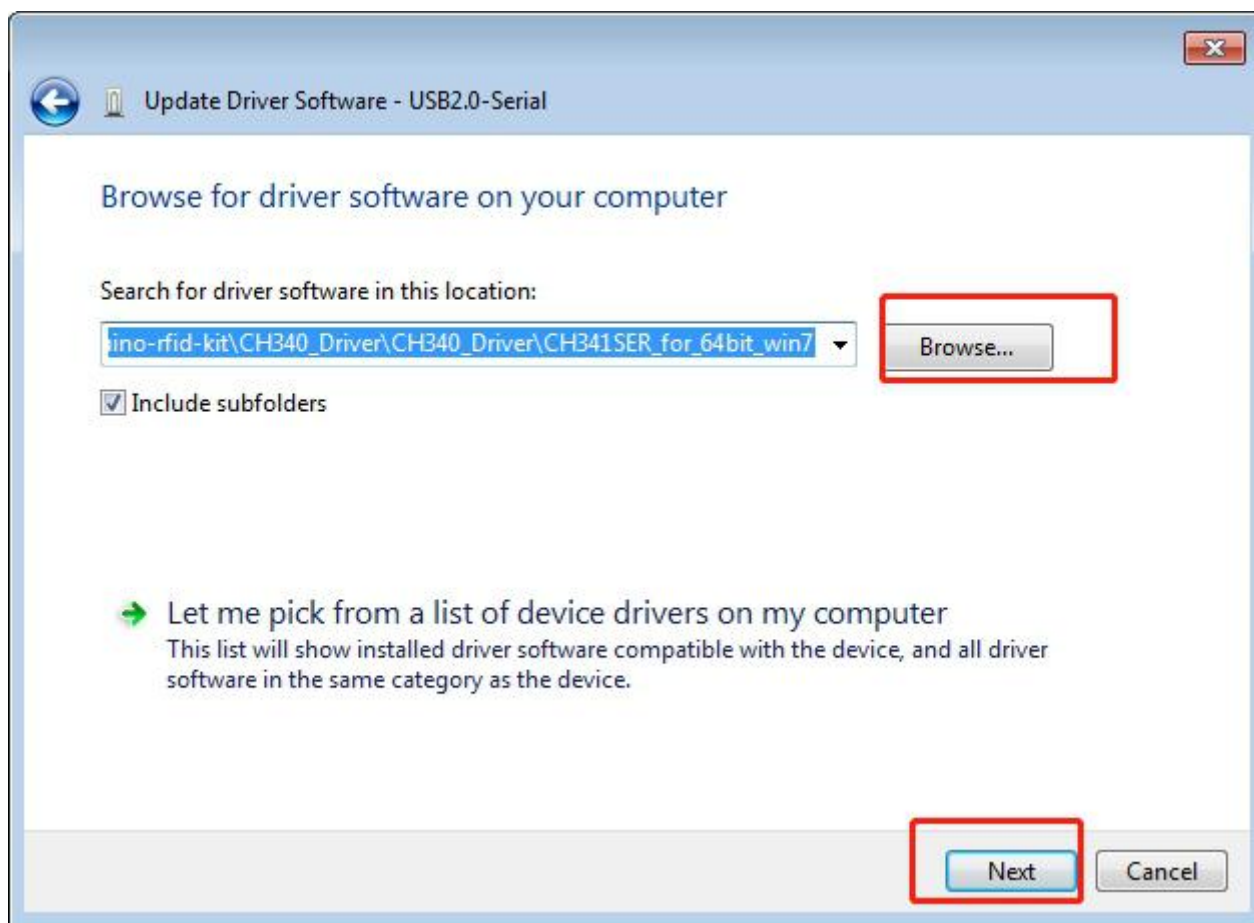


Figure 2.1.8 Driver file selection interface

4) If you have already installed, the following figure will automatically inform you that the driver was successful.

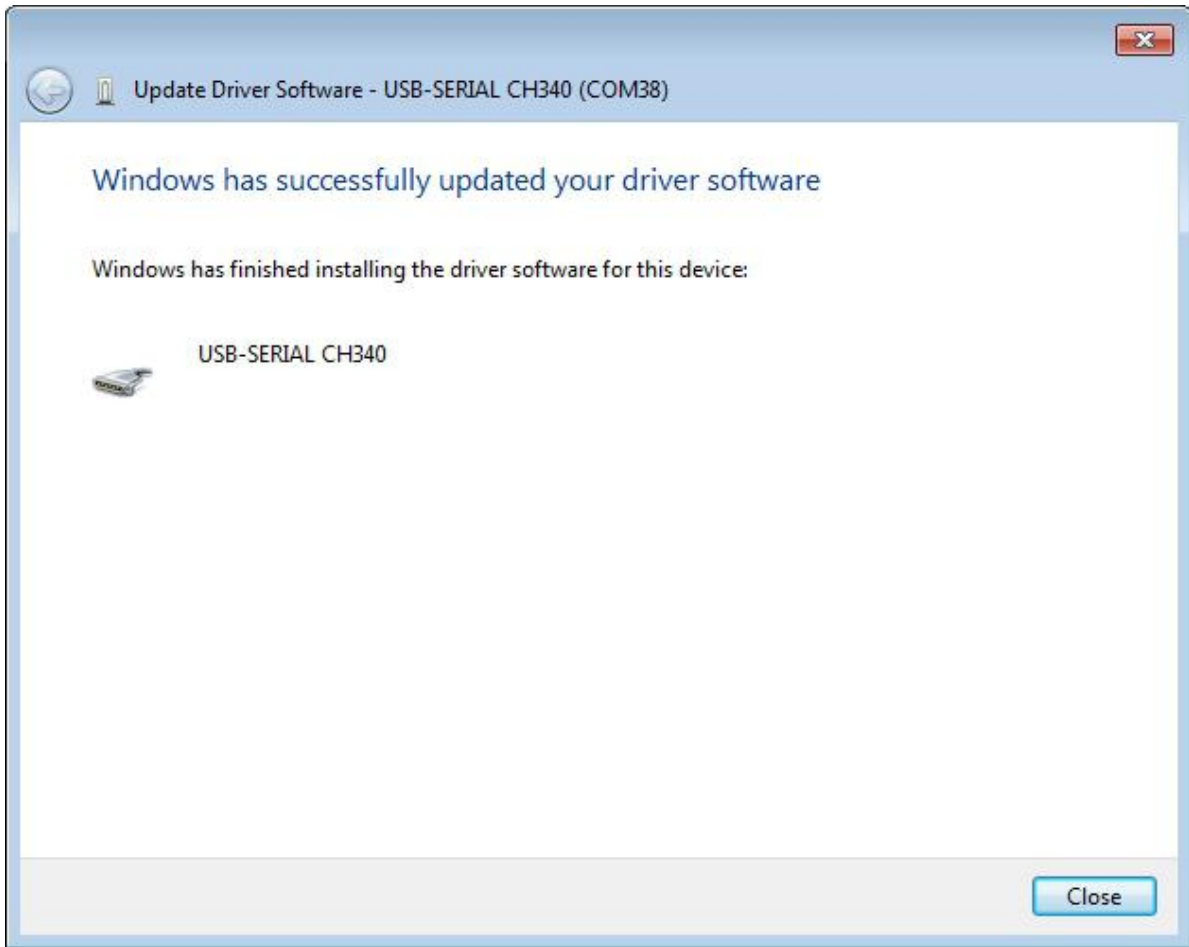


Figure 2.1.9 Driver Installation Successful Interface

At this time, we return to the "Device Manager" interface, the computer has successfully identified Arduino, as shown in the below Figure 2.1.10 .then open the Arduino compilation environment, you can open the Arduino trip.

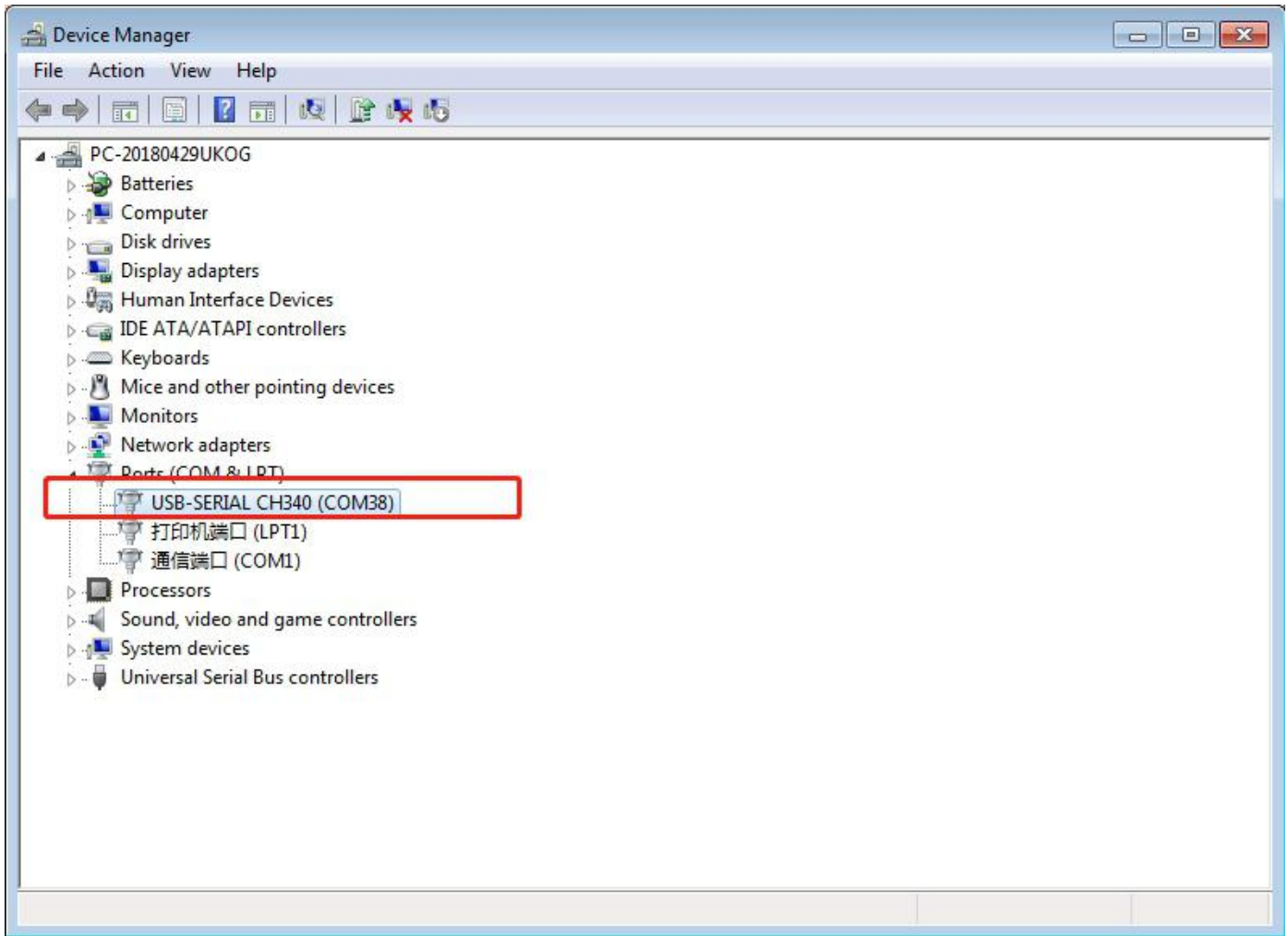


Figure 2.1.10 Driver Success Recognition Interface

Notice In Win10 system, some Arduino are connected to the computer (non-genuine chips are difficult to identify), the system will automatically download the corresponding driver, so you can not install the driver yourself, but in the Win7 system, you have to do it yourself.

In addition, we can see that the USB serial port is identified as COM15 in the above figure, but it may

be different with different computer, you may be COM4, COM5, etc., but USB-SERIAL CH340, this must be the same. If you do not find the USB serial port, you may have installed it incorrectly or the system is incompatible.

2、 If your computer is a Windows 8 system: Before installing the driver, you should save the files you are

editing because there will be several shutdowns during the operation.

- 1) Press "Windows key" + "R"
  - 2) Input shutdown.exe / r / o / f / t 00
  - 3) Click the "OK" button
  - 4) The system will reboot to the "Select an option" screen
  - 5) Select "Troubleshooting" from the "Select an option" screen
  - 6) Select "Advanced Options" from the "Troubleshoot" screen
  - 7) Select "Windows startup setting screen" from "Advanced Option"
  - 8) Click the "Restart" button
  - 9) The system will reboot to the "Advanced Boot Options" screen
  - 10) Select "Disable Driver Signature Enforcement"
  - 11) Once the system is booted, you can install Arduino driver the same as Windows 7
- 3、 If your computer is a Windows XP system: The installation steps are basically the same as for Windows 7,  
please refer to the above Windows 7 installation steps