



CH340G USB to UART Interface



Technical Informations:

CH340 is a series of USB bus adapters, that provides serial, parallel or IrDA interfaces over USB bus (only serial interface). The CH340G integrate circuit provides common MODEM signals to allow adding a UART Devices to a computer, or converting existing UART devices to USB interface.

Features:

- ✓ provides a virtual serial port over USB 2.0 port
- ✓ full speed 2.0 USB interface
- ✓ based on 340G chip
- ✓ supports operating systems as follows:
 - Linux
 - Mac OSX
 - Windows
- ✓ supports baud rates from 50 bps up to 2 Mbps
- ✓ supports CH341 driver
- ✓ rail voltage
 - 5V mode 4.5-5.5V
 - 3,3V mode 3.3-3.8V
- ✓ Operating current typ. 12 mA up to 30mA ¹
- ✓ Clock-frequency typ. 12 MHz.
- ✓ Power-on reset time typ. 20 ms up to 50 ms
- ✓ USB A Connector (male)
- ✓ Transmitter baud rate error less than 0,3%
- ✓ Receiver baud rate tolerance < 2%

¹ please see Important Notes

Dimensions:

Dimension	incl. Pins	w/o Pins
length	52 mm	45 mm
width	14 mm	14 mm
height	8,5 mm	8,5 mm
weight	5 gr.	5 gr.

Important Notes:

CH340G maximum operating current is 30 mA, running ESP8266 directly from CH340G is not recommended.

Typical ESP8266EX current consumption range (w/o SPI Flash):

- deep sleep 10 μ A
- Modem sleep 15 mA
- Modem active 50 - 170 mA

CH340G Driver Installation

Actual Driver download overview:

Operating System	download Link
Linux	CH341SER_LINUX_OS.zip
MAC OSX	CH341SER_MAC_OS.zip
Windows	CH341SER_WINDOWS_OS.zip
Android	CH341SER_ANDROID_OS.zip

1. please choose designated download link
2. unpack zip file
3. run installer package

CH341 common Driver Problems

Mac OSX 10.9 Mavericks Mac OSX 10.10 Yosemite

On newer versions of OS X (10.9 and 10.10), when you double-click the install packages inside the CH341 disk image, you may be presented with a type error about not being able to open the files because they are not from an identified developers.

temporarily Solution

4. To get around this, simply **right-click at the CH341 installer package** you want to install, or press **CTRL + mouse click**, if you don't have a right-click. Then **select open** from the menu.
5. A new dialog will open asking if you are certain
 - ... Are you sure you want to open it?
 - **Click Open**, and proceed with the installation

permanent Solution

OSX default setting allows only installing Applications downloaded from App Store or identified developers. **Caution**, this solution will allow installing applications downloaded from any resources!

1. Open **System Preference**
 2. If System Preferences appear **click on Security & Privacy Settings**
 - **click on lock sign** for enable making changes
 - assign Administrator privileges within password
 - choose **Anywhere**
 3. A new dialog will open
 - Choosing "Anywhere" makes your Mac less secure
 - **Click Allow From Anywhere**
 4. Double Click on CH341 Installer package and proceed with installation of CH341
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