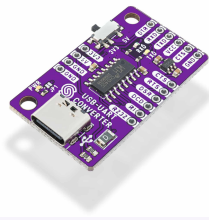


PRODUCT DATASHEET



USB-UART CH340 Converter Board

333028

The USB-UART CH340 Converter Board enables seamless USB to serial communication for microcontrollers, ideal for programming and debugging.

Full product documentation, files and tutorials: solde.red/333028

CORE ATTRIBUTES

SKU **333028**WEIGHT **7 g**BARCODE **732388673605**

DESCRIPTION

Unlock the full potential of your microcontroller projects with the USB-to-UART CH340 Converter. This tool bridges the gap between your computer's USB port and your microcontroller's serial interface at its logic level (5V/3V3 compatible), enabling programming, debugging, and data exchange. Compatible with popular development boards like ESP32, RP2040, Atmega328p and others, the CH340 ensures stable and efficient communication, making it a perfect choice for both hobbyists and professional developers.

Designed for ease of use, the CH340 converter simplifies the process of serial communication, enabling the use of any GPIO pins to send data to a computer via USB. Its design and performance make it an ideal choice for a wide array of applications, from uploading sketches to ESP32 modules to establishing serial console access for embedded systems. Experience quick CH340 driver installation for Windows (macOS and Linux are natively supported), ensuring you spend less time on setup and more time on innovation.

Beyond basic programming, the CH340 excels in IoT and embedded applications where serial data monitoring is crucial. Its cost-effectiveness, combined with high functionality, provides an excellent alternative to more expensive converters, without compromising on performance. Whether you're building smart home devices, robotics, or custom sensor networks, the CH340 offers the dependable serial connectivity you need to bring your ideas to life.

TECHNICAL DETAILS

- **USB - UART bridge:** CH340
- **Input voltage:** 5V (USB)
- **Output voltage:** 3.3V ili 5V, selected using the switch
- **UART signal logic level:** 3.3V
- **USB connector:** USB-C
- Power LED and RXD/TXD indication LEDs
- **Dimensions:** 38 × 22 mm / 1.5 × 0.9 inch

SPECIFICATIONS

INTERFACE	Uart, Usb
QWIIC COMPATIBLE	No
BREADBOARD COMPATIBLE	Yes
IC PART NUMBER	CH340C
SUPPLY VOLTAGE MIN V	3.3
SUPPLY VOLTAGE MAX V	5
LOGIC LEVEL	3V3 Or 5V
PROTECTION FEATURES	Overcurrent

LINKS

Open Source Hardware Files	https://github.com/SolderedElectronics/USB-UART-CH340C-converter-board-hardware-design
Full Documentation	https://docs.soldered.com/ch340/overview/
Hardware Details	https://docs.soldered.com/ch340/hardware/
Pinout	https://cms.soldered.com/products/333028/media/333028_pinout-png_af0aa4.svg

GALLERY

