

Hardware User Manual



USB-UART-Converter

Contact

Bluetechnix Mechatronische Systeme GmbH

Waidhausenstr. 3/19

A-1140 Vienna

AUSTRIA/EUROPE

office@bluetechnix.at

<http://www.bluetechnix.com>

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Information

For further information on technology, delivery terms and conditions and prices please contact Bluetechnix (<http://www.bluetechnix.com>).

Warning

Due to technical requirements components may contain dangerous substances.

The Core Modules and development systems contain ESD (electrostatic discharge) sensitive devices. Electrostatic charges readily accumulate on the human body and equipment and can discharge without detection. Permanent damage may occur on devices subjected to high-energy discharges. Proper ESD precautions are recommended to avoid performance degradation or loss of functionality. Unused Core Modules and Development Boards should be stored in the protective shipping



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1 Introduction

The USB-UART-Converter is a tiny tool to connect the UART of a microcontroller to a standard USB host. The USB-UART-Converter is based on a CP2102 from silabs, it converts data traffic between USB and UART formats.

CP2102

Functions:

- USB 2.0 compliant, full-speed (12 Mbps)
- Supports all modem interface signals
- 1024 Bytes of EEPROM
- User-programmable custom Baud rates
- Baud Rates: 300 bps up to 1 Mbps

2 USB-UART-Converter

On the solderpads you can solder wires on your need. At least you need RXD, TXD and GND.

2.1 Top View

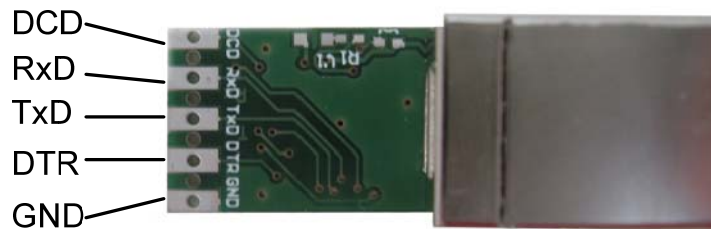


Figure 2-1: USB-UART Converter Top View

2.2 Bottom View



Figure 2-2: USB-UART Converter Bottom View

2.3 Electrical Characteristics

Voltage on any I/O Pin with respect to GND max 5.0 V

Input High Voltage	min 2.0V
Input Low Voltage	max 0.8 V

3 Driver

A Driver is available for Windows, Mac OS and Linux.

Linux and Mac OS supports the USB-UART-Converter with a native driver.

The Windows driver can be downloaded at <http://www.silabs.com>

4 Product Changes

For the latest information regarding product changes, please consult the product homepage:
www.bluetechnix.com

Version	Changes
V1.0	First Release

Table 4-1: Product Changes

5 Document Revision History

Version	Date	Document Revision
1	07.07.2009	First Version

Table 5-1: Revision History