Hardware User Manual

USB-UART-Converter

Tinyboards from Bluetechnix
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. Electro-static 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 form 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.
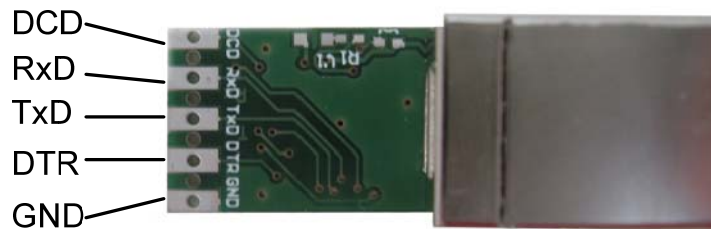
2.1 Top View

Firgure 2-1: USB-UART Converter Top View

2.2 Bottom View

Firgure 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