USB to 3V Serial UART dongle, Prolific drivers

Features

- Enables USB-to-Serial TTL conversion/bridging
- Connects to device (Microcontroller) UART or I/O
- Programmable baud rate generator can be configured to support
- Data transfer rates from 75 to 12M baud at TTL levels
- I/O includes TX, RX, RTS, CTS, VCC, and GND
- USB 2.0 full speed compatible
- Supports 5,6,7 or 8 Data bits, 1, 1.5, or 2 Stop bits, and Parity setting of None, Even, Odd, Mark, or Space
- Parity error, Frame error, and Serial Bread Detection supported
- Data Flow controlled by RTS/CTS, DSR/DTR, or XON/XOFF
- Configurable 512-byte Bi-Directional Data Buffer256-byte out/256-byte in, or 128-byte out/384-byte in
- Has internal EEPROM allowing with allocated user writable area
- On-Chip One-Time Programming ROM for device start-up configurations
- PCB assembly powered by USB Bus
- External Logic powered from USB Port at +3V
- On-Chip USB1.1 Transceiver, 5V->3.3V Regulator
- Operating Temperature range: -40C to +85C
- Zero-Cost Royalty Free Drivers and Virtual Comm Port Software
- Drivers (USB and DLL software interface) and Virtual Comm supports:
  W98, 98SE, ME, Win2K, Win2003, WinXP, Win2008, WinXP-64, Win7, Win7-64, WinVista, WinVista64, WinXP-Embedded, WinCE v4.2, v5.0, v6.0, MAC OS8, OS9, OSX, and Linux 2.4+
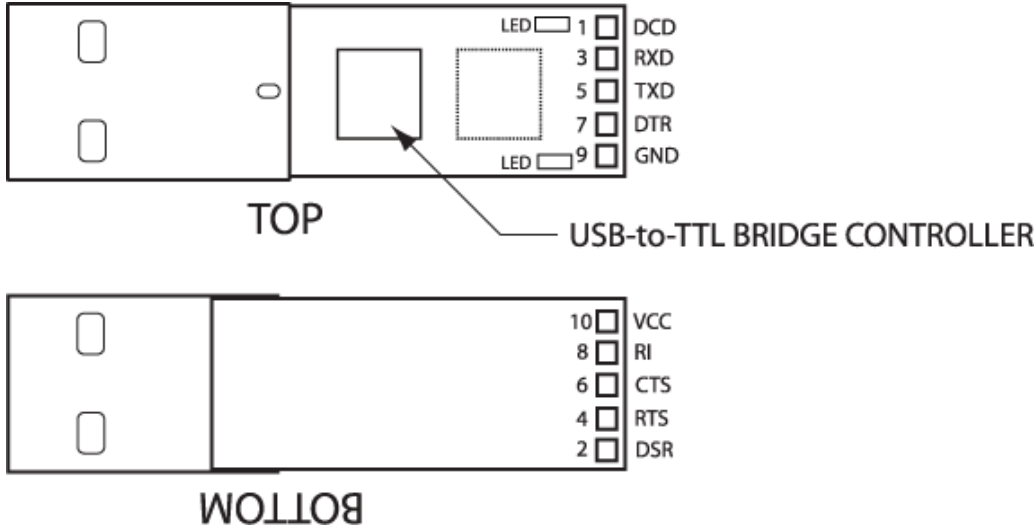

Description

The RN-SERIAL-PRO3V-DGL is a USB-to-Serial TTL bridge board module (PCB Assembly) designed to accommodate a quick and easy means to interconnect to devices having TTL level serial interfaces which require conversion to USB. The on-board bridge controller is the PROLIFIC 64-bit PL2303HXD USB to Serial UART device which controls the relevant USB signal and protocol requirements.

As a PCB Assembly, the RN-SERIAL-PRO3V-DGL is comprised of 2 main components, a USB type-A connector as the interface to the outside world and small form factor PCB requiring soldered-wire connections to the mating device(s). The RoHS compliant PCB assembly is configured with a fixed TTL output level of +3.3V.

Deriving its power from the USB bus connection, the RN-SERIAL-PRO3V-DGL is USB 2.0 Full Speed Compatible and inherently complies with all of the Prolific PL2303HXD documented features and specifications. The RN-SERIAL-PRO3V-DGL also includes support for data transfer rates of up to 12Mbaud, and supports User Customizable Descriptors for OTPROM programming including User-defined serial numbers. This programmability feature is extremely useful in cases where security is an issue, and where password protection is required for applications involving file transfer processes and other security applications. Each bridge board module is equipped with two LEDs which are preconfigured as data transmission activity indicators for the TX (RED) and RX (GREEN) signal lines. Support files and application utilities are available to redefine the fixed function purpose of either or both LEDs as desired.

Software drivers are zero-cost and royalty-free and readily available from various online sources as well as from our support site: http://rovingnetworks.com/support.php

Mechanical Details –PAD Location and Signal Description

Ordering Information

Part Number	Description
RN-SRL-PRO3V-DGL	USB to 3V serial UART dongle, Prolific chipset, USB connector, bare PCB 5V serial connection

Related Products

Part Number	Description
RN-SRL-FTD5V-DGL	USB to 5V serial UART dongle, FTDI chipset, USB connector, bare PCB, 3V serial connection

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