Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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+
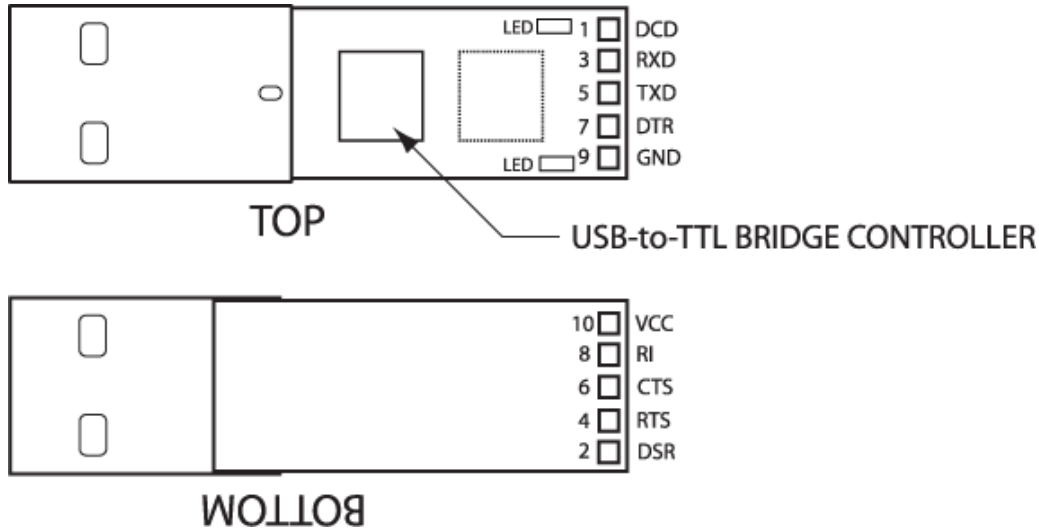

Description

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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Roving Networks assumes no liability for applications assistance or customer product design. Customers are responsible for their products and applications using Roving Networks components. To minimize the risks associated with customer products and applications, customers should provide adequate design and operating safeguards.

Roving Networks products are not authorized for use in safety-critical applications (such as life support) where a failure of the Roving Networks product would reasonably be expected to cause severe personal injury or death, unless officers of the parties have executed an agreement specifically governing such use.