ROVING NETWORKS

SERIAL CABLE DATA SHEET

RN-SRL-FTD5V

USB to 5V Serial UART Cable, FTDI Chipset

Features

- Enables USB-to-Serial TTL conversion/bridging
- Connects to device (Microcontroller) UART or I/O
- Data transfer rates from 300K to 3M baud at TTL levels
- I/O includes TX, RX, RTS, CTS, VCC, and GND
- USB 2.0 full speed compatible
- Supports 7 or 8 Data bits, 1 or 2 Stop bits, and parity setting of None, Even, Odd, Mark, or Space
- Data Flow controlled by RTS/CTS or XON/XOFF
- internal EEPROM with allocated user writable area
- FTDIChip-IDTM Security feature supported
- PCB assembly powered by USB Bus
- External Logic powered from USB Port at +5V or +3V
- Factory Set for +3.3V CMOS drive outputs and 5V safe TTL inputs
- Operating Temperature ranging from -40C to +85C
- OHCI, UHCI, and EHCI host controller compatible
- Zero-Cost Royalty Free Drivers and Virtual Comm Port Software
- Drivers (USB and DLL software interface) supports:W98, 98SE, ME, Win2K, Win2003, WinXP, Win2008, WinXP-64, Win7, Win7-64,WinVista, WinVista64, WinXP-Embedded, WinCE v4.2, v5.0, v6.0, and Linux 2.4+
- 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+
- Available lengths up to 6-Feet (1.8 m)
- Available in either Black or Translucent USB connector shell overmold



Description

The RN-SRL-FTD5V is a USB-to-Serial TTL bridge cable available in Black or Translucent overmold USB-A male connectors, having connection-ready 6 conductor tinned-leads at the opposite end. Each cable is made up to a 6 foot length (1.8m), with a heat-shrink finish treatment. At the core of each cable assembly is the RN-SRL-FTD5V-DGL 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 RN-SRL-FTD5V-DGL cable assembly is assembled with a fixed TTL level of +5V, and are RoHS compliant.

Deriving its power from the USB bus connection, the RN-SRL-FTD5V-DGL is USB 2.0 Full Speed Compatible and inherently complies with all of the FTDI-FT232R documented features and specifications. It also includes support for data transfer rates of up to 3Mbaud and supports the FTDIChip-ID™ feature as well. This feature involves the factory-installed unique internal serial number for use in cases where security is an issue, and where password protection is required for applications involving file transfer processes and other security applications. Each RN-SRL-FTD5V (Translucent) is equipped with two LEDs preconfigured as data transmission activity indicators for the TX (RED) and RX (GREEN) signal lines. Redefining the fixed function purpose of either or both LEDs may be possible through use of third party software and utilities.

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



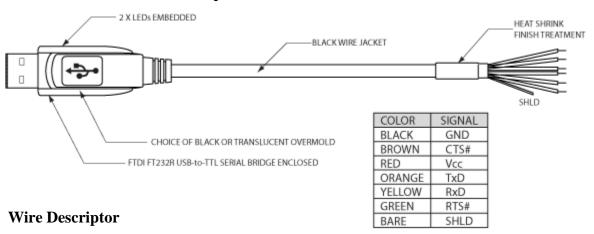
SERIAL CABLE DATA SHEET

RN-SRL-FTD5V

Request to Send – Handshake

Shield Ground

Mechanical Details -Wire Descriptor



Wire Color Connection Function Description Black **GND GND** Ground Supply Brown CTS# Input Clear to Send - Handshake Red V_{cc} Output +5V output TXD Output Transmit Async Data Output Orange Yellow RXD Output Receive Async Data Input

Operating Parameters

RTS#

SHLD

Input SHLD GND

Green

Bare

Parameter	Reference	Min.	Тур.	Max.	Conditional Notes
V_{CC}	Output Power Voltage	4.25V	5.0V	5.25V	Value depends on mating Device Port
Io	Output Power Current			-75mA	<2.5mA during suspend mode
T	Operating Temps.	-40C		+85C	

I/O Pin characteristics

Pin Characteristics	Reference	Min.	Тур.	Max.	Conditional Notes
$ m V_{oh}$	Output Voltage High	3.2V	4.1V	4.9V	Current source=6mA
V_{ol}	Output Voltage Low	0.3V	0.4V	0.6V	Current source=6mA
V_{in}	Input Switching Threshold	1.0V	1.2V	1.5V	
$ m V_{Hys}$	Input Switching Hysteresis	20mA	25mA	30mA	

RN-SRL-FTD5V Page 2 of 4



SERIAL CABLE DATA SHEET

RN-SRL-FTD5V

Ordering Information

Part Number	Description
RN-SRL-FTD5V-BLK	USB to 5V serial UART cable, FTDI chipset, Black housing, 1.8 meter cable length,
	tin leads
RN-SRL-FTD5V-CLR	USB to 5V serial UART cable, FTDI chipset, Clear housing, LED status, 1.8 meter
	cable length, tin leads

Related Products

Part Number	Description
RN-SRL-PRO3V-BLK	USB to 3V serial UART cable, Prolific chipset, Black housing, 1.8 meter cable length, tin leads
RN-SRL-PRO3V-CLR	USB to 3V serial UART cable, Prolific chipset, Clear housing, LED status, 1.8 meter cable length, tin leads

Custom Configurations

The TTL to serial cables are available in the following custom options for both, the FDTI and PROLIFIC versions with extended lead times.

Parameter	Description	
Length	12, 24, 36, 48, 60 or 72 inches	
End Terminations	 Tinned Lead 8-pin,2mm pitch, keyed 6-way,0.1in pitch Audio Jack, Male PICAXE-DB9-F PICAXE-3Pin PICAXE-Audio Jack-Male 	



SERIAL CABLE DATA SHEET

RN-SRL-FTD5V

Copyright © 2011 Roving Networks. All rights reserved.

Roving Networks reserves the right to make corrections, modifications, and other changes to its products, documentation and services at any time. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete.

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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for USB Cables / IEEE 1394 Cables category:

Click to view products by Microchip manufacturer:

Other Similar products are found below:

68768-0173 FNY-W6003-01 88764-0800 13805532 148700-1 17-200621 17-250051P 954 AC102012-2 IP-USB1(C10)S-RW

CABLE/RTP/USB/DT RS232-GTD USBFTVX2SA2N03A USBFTV2SA2N03A 1689404-1 FTP-629Y401 FTP-628Y402 943301-001

FNY-W6022 FNY-W6003-03 1310-1015-05 1310-1018-04 1310-1019-04 UA-30AMFM-SL7B02 UA-30AMFM-SL7B01 UA-30AFM
LD7B03 UA-30AMFM-SL7B03 USBAPSCC7202A UES-1001A160 UES-1003A160 USBFTVX7SA2N20A USBFTVX2SA2N20A

USBFTV2PEMSA2N10A FTP-629Y602 USBCAMCM100 USB A/F*2 to 2.54 2*5P-SH L=400mm EP-CBUSB10P2FLT 1310-1033-01

1310-1037-04 ASR-USB 68784-0075 17-241361 17-230471 217B-BC02 USB-29 19800-010500-200-RS USB+MINI DIN 6P WITH BKT 088738-8100 106413-4410 106413-4405