

USB Keyboard Decoder - Serial Output

Sunrom Part#
1440

Accepts any USB Keyboard and outputs serial data for every key press

User's
Manual

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<http://www.sunrom.com/m/1440>

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Introduction

The product is a USB Host which accepts any Keyboard at its USB port and decodes the key press. The data is output as serial TTL UART at 9600 baud rate for easy interfacing with various applications. The output is suitable for 3V or 5V level microcontroller applications.

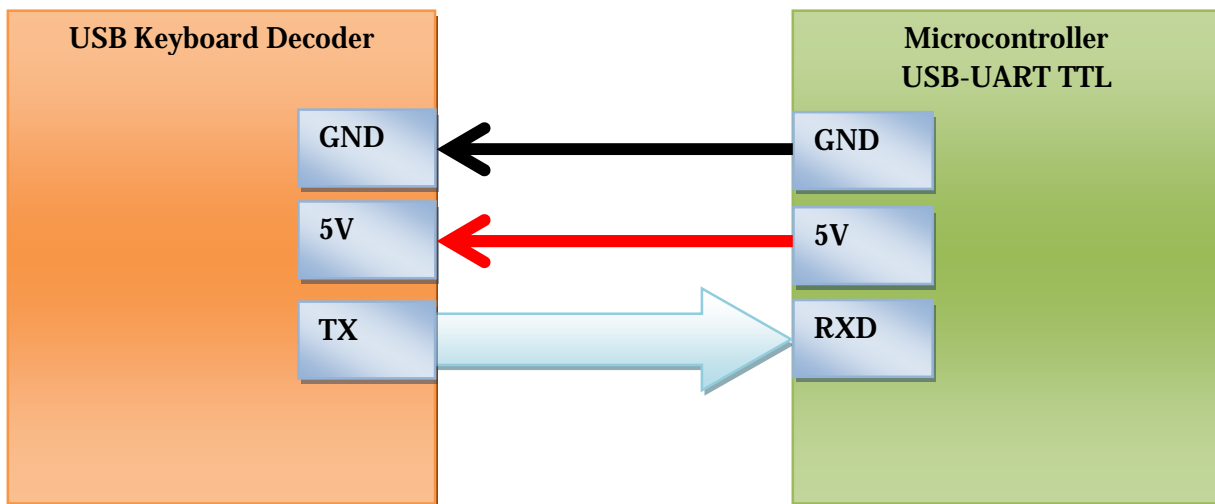
Features

- Easy to Use with variety of keyboards (including wireless keyboards)
- Multicolor Status LEDs for Error, Activity and Power
- Simple output can work with any type of microcontroller
- Also accepts Wireless Keyboard also by inserting its RF receiver into USB host port

Interfacing with Microcontroller or USB-UART TTL

If you want to operate with microcontroller then it's very simple to connect just 3 pins of modules like below.

If you want to operate with a PC then use a typical USB-UART of TTL level(not RS232) with same connections like below.



Specifications

Parameter	Value
Working Voltage	5V DC regulated power supply
Current Consumption	25 mA + Keyboard as per its specifications
Serial Baud rate	9600 bps
Baud rate format	8-N-1; 1 Start bit, 8 Data bits, 1 Stop Bits, No Parity
On Board controller	STM32F105RB - 32 Bit ARM Cortex M3

Module Pin Details

Pin	Details
GND	Common Ground
+5V	Regulated positive power input 5V DC
TX-OUT	Transmit Output - UART TTL level - Connects to RXD pin of microcontroller, Suitable for UART having 3.3V or 5V level
RX-IN	Receive Input - This pin is not used in this application

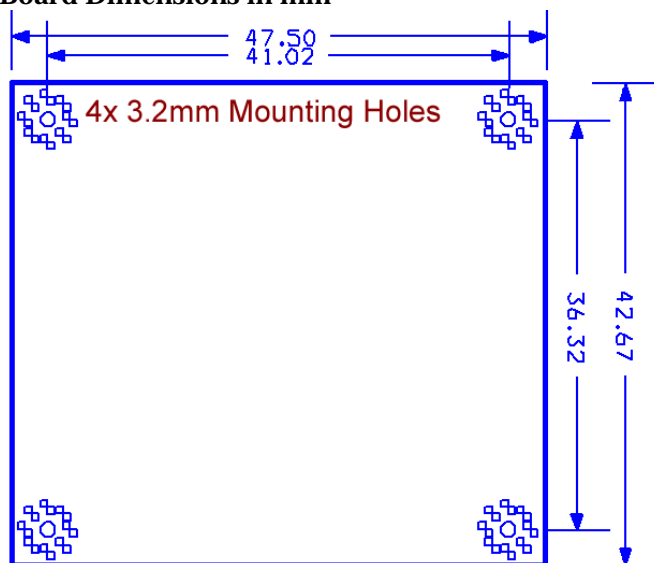
Status LEDs

Board has three LEDs

- PWR - Green LED indicate that board is getting power
- STS - Yellow LED indicate any key press activity
- ERR - Red LED indicate any error like keyboard not detected

Product Dimensions

Board Dimensions in mm



Support

Sunrom Electronics offers free **technical support** (www.sunrom.com/contact) for customers, until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!

Technical Support is available by email only and scope is limited to problem faced during use of the use of product and does not cover end user programming and hardware troubleshooting.

Each product passes through strict quality checks before it reaches you. So if something is not working out right, the first thing to doubt is the connections or programming of your hardware.

Disclaimer

Sunrom Electronics assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in this document are subject to change at any time without notice.

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