Model:UT-8851

USB to TTL converter

Datasheet

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1. Overview

UT-8851 is a universal USB/TTL converter, no external power supply, compatible with USB and TTL standards, capable of converting single-ended USB signals to TTL signals, TTL terminal through the connection of the terminal block. The converter comes with zero delay automatic transceiver conversion inside, unique I/O circuitry automatically controls the data flow direction without any handshaking signal (such as RTS, DTR, etc.) No jumper setting is required to achieve TTL mode conversion, plug-and-play. Ensures suitability for all existing communication software and interface hardware.

UT-8851 interface converter can provide reliable connection for point to point communication, data communication rate 300-921600bps, with power indicator and data flow indicator, supported communication methods are USB to TTL conversion.

2. Major Functions & Features

● Support USB to TTL converter USB V2.0

3. Technical Parameters

● Standard: Compliant with USB1.1, 1.0 standard, backward compatible with USB2.0, compatible with TTL TIA/EIA standard
● USB signals: VCC, DATA-, DATA+, GND, FG
● TTL signal: TXD, RXD, GND
● Operating mode: Asynchronous operation, point-to-point communication
● Direction control: Automatic data flow control technology is used to automatically identify and control the direction of data transmission.
● Baud rate: 300-921600bps, automatic detection of serial signal rate
● Load capacity：Support point to point, each converter can be allowed to connect one TTL interface device
● Transmission distance: 5 meters for TTL and no more than 5 meters for USB
● Interface form: USB end Class A interface male, TTL end 5Pin terminal block
● Signal indication: three signal indicators power (PWR) transmit (TXD) receive (RXD)
● Transmission medium: twisted pair or shielded wire
● Dimension: 62mmx33mmx16mm
● Operating temperature: -40 ~ 85°C
● Relative humidity from 5 ~ 95%
● Support Win8/Win10/Win2000/2003/2008/2012/XP/Vista/7/8/8.1/10/CE/Mac/Linux etc.

4. Interface assignment

● TTL output signal and terminal pin assignment

Terminal block	Output signal	TTL Output signal
1	TXD	Transmit
2	RXD	Receive
3	N/C	/
4	VCC	+5V/200mA Output
5	GND	GND

● USB-A class: USB signal input and pin assignment diagram
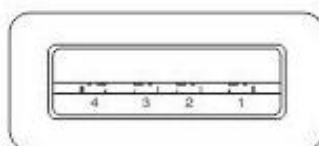
1、VCC   3、DATA+(DP)

2、DATA−(DM)   4、GND

5. Product View (Appearance)

6. Structure Dimensions

mm ± 0.5
(inch) ± 0.02
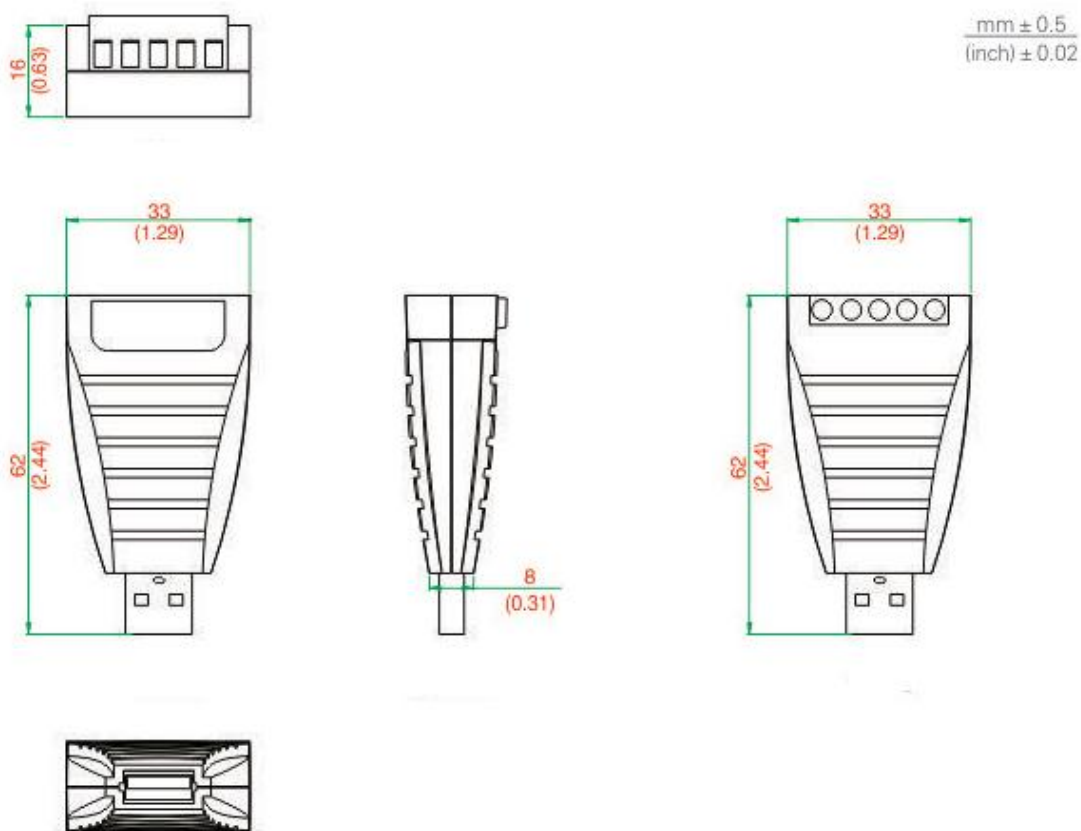
7.Ordering Information

Model	Signal/Port				Protection		Baud rate	Environment					Power	
	USB	RS-232	RS-485/422	TTL				Temperature			Humidity			
	USB A male	DB9 male	Terminal block		RS-232	RS-485/422		-25~70°C	-40~85°C		5~95°C		Port-powered	External power
UT-8851	√			√			300bps-921.6kbps			√		√	√	