Model:UT-2003B1

USB to 8 ports RS-232 Converter

Datasheet

1. Overview

With the development of PC industry, USB interface is gradually replacing various low-speed peripheral interfaces of old PC, however, many important devices in industrial environment still use RS-232 interface design, so many users use USB to RS-232 converter to realize data transfer between PC and RS-232 devices.

The UT-2003B1 is a universal USB/RS-232 interface converter, which is compatible with USB and RS-232 standards without external power supply, and is capable of converting a single USB signal to a UART RS-232 signal, with the RS-232 side connected via a DB9 male connector. The converter is equipped with zero-latency automatic transceiver, unique I/O circuitry to automatically control the data flow direction, plug and play. It ensures that it is suitable for all existing communication software and interface hardware.

UT-2003B1 interface converter can be used for point-to-point communication connection, data communication rate 300-921.6Kbps, with power indicator and data flow indicator to indicate the fault situation, support the communication mode of USB to RS-232 conversion.

2. Major Functions & Features

- Support USB to RS-232 converter

3. Technical Parameters

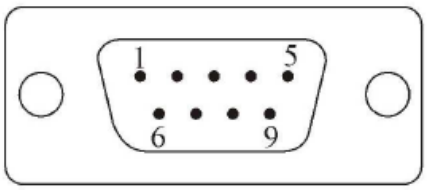
- Standard: Compliant with USBV1.0, 1.1, 2.0 standard EIA RS-232 standard
- USB signals: VCC, DATA+, DATA-, GND, FG
- RS-232 signal: DCD RXD TXD DTR GND DSR RTS CTS RI
- Working mode: asynchronous work, point-to-point communication mode
- Direction control: automatic data flow control technology is used to automatically identify and control the direction of data transmission
- Baud rate: 300-921.6Kbps, automatic detection of serial signal rate
- Transmission distance: RS-232 end 5m, USB port no more than 5m
- Interface protection: ±15KV electrostatic protection
- Interface form: USB end of the Class B interface female, DB9 male connector connection
- Signal indication: light power (PWR) transmit (TXD) receive (RXD)
- Transmission medium: twisted pair or shielded wire
- Dimension: 490mmX201mmX43mm
- Operating environment: -40~ 85°C, relative humidity 5~ 95%
- Support Win98/Win2000/WinXP/Vista/Win7/Linux etc.
- External power supply: AC220V/50Hz

4. Hardware definition and initial settings

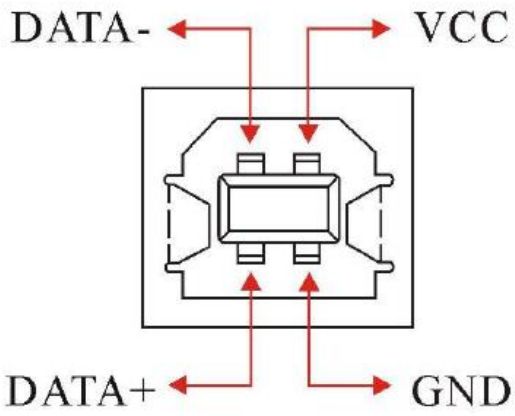
- DB9 male: RS-232 output signal and terminal pin assignment

DB9 (PIN)	RJ-45C Signal interface
1	Protection grounding
2	Receiving data SIN(RXD)
3	Transmitting data SOUT(TXD)
4	Data terminal preparation (DTR)
5	GND
6	Data device preparation (DSR)
7	RTS
8	STS
9	RI

DB9 male

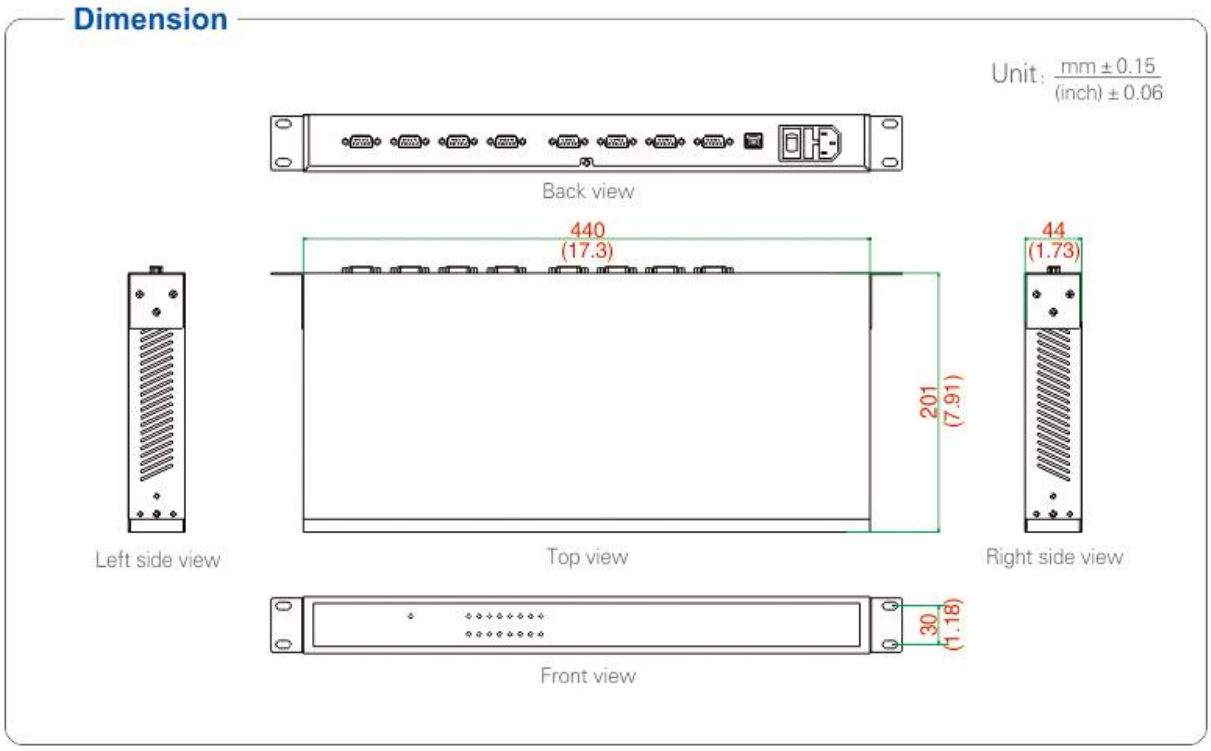


- USB-B Female: USB signal input and pin assignment diagram



5. Product View (Appearance)

6. Structure Dimensions



7.Ordering Information

Model	Signal/ Interface			Protection level		Baud rate	Operating Environment			Power	
	USB	RS-232	RS-485/422				Temperature		Humidity		
	USB B type	DB9 male		RS232	RS-485/ 422		-25~70°C	-40~85°C	5~95%	plug and play	External power
UT-2003B1	√	√		±15 KV ESD		300bps-921.6 kbps		√	√		100-240 VAC