

# **Model:UT-883R**

**USB to RJ45 Console debug cable**

## **Datasheet**



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## 1. Overview

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

The UT-883R is a universal USB/RS-232 converter, which is compatible with USB and RS-232 standards without external power supply, and can convert a single USB signal to RS-232 signal with zero delay automatic transceiver, unique I/O circuit to control the data flow direction automatically, plug and play. Ensure that it is suitable for all existing communication software and interface hardware.

UT-883R interface converter can be point to point, data communication rate 300-460800bps, supported communication methods are USB to RS-232 conversion. Applications: Attendance machine, switch, router, gateway, firewall, PLC, cash register, PLAM, CNC machine tool, disposal MODEM, ISON terminal, scanner, industrial control, industrial instrument, temperature control equipment, LED display, PDA tax control machine, touch screen, printer, access control system, etc.

## 2. Major Functions & Features

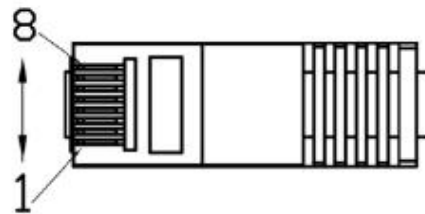
- Supports USB to RS-232 Converter

## 3. Technical Parameters

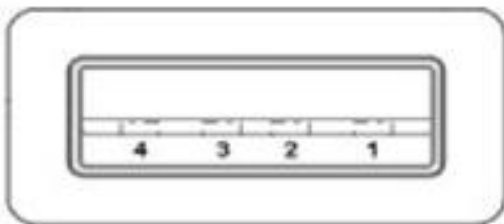
- Standards: USB V1.1, 1.0, 2.0, RS-232 EIA
- USB Signal: VCC, DATA-, DATA+, GND, FG
- RS-232 signal: DCD, RXD, TXD, DTR, GND, DSR, RTS, CTS
- Working mode: asynchronous, point to point
- Direction control: Adopts data flow direction auto-control technology to distinguish and control the direction
- Baud rate: 300-460,800bps auto detection
- Loading capacity: Supports point to point communication
- Transmission distance: 5m for RS-232 port, no more than 5m for USB port
- Port protection:  $\pm 15\text{KV}$  ESD protection
- Interface: USB-A male, RJ45
- Transmission media: twisted-pair or shielded wire
- Length:  $1500 \pm 20\text{mm}$
- Operating temperature:  $-40 \sim 85\text{ }^{\circ}\text{C}$
- Relative humidity:  $5 \sim 95\%$
- Supports Win95/98/2000/2008/XP/Vista/7/8/8.1/10/IMAG

## 4. Pin Definition Description

	RJ45(PIN)	RS-232C signal
1	orange/white	RTS
2	orange	DTR
3	green/white	SIN(RXD)
4	green	DCD
5	blue/white	GND
6	blue	SOUT(TXD)
7	brown/white	DSR
8	brown	CTS



## USB-A: USB signal input & Pin assignment

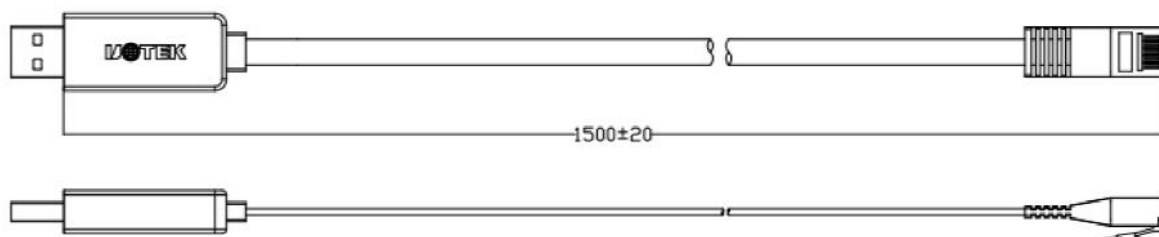


1. VCC
2. DATA-(DM)
3. DATA+(DP)
4. GND

## 5. Product View (Appearance)



## 6. Structure Dimensions



## 7. Ordering Information

Model	Signal/ Interface		Protection level	Baud rate	Operating Environment			Power	
	USB	RS-232			Temperature		Humidity		
	USB A male		RS232		-25~70 °C	-40~85 °C	5~95%	plug and play	External power
UT-883R	√	RJ45	± 15KV ESD	300bps-115.2kbps		√	√	√	
UT-883F	√	3.5mm audio head	± 15KV ESD	300bps-115.2kbps		√	√	√	
UT-883N	√	DB9 male	± 15KV ESD	300bps-115.2kbps		√	√	√	