

Doc No.: UT-RD-PRE-000608

Model: UT-8511P Series

(Product name: USB to RS-232 serial cable)

Datasheet

1. Brand and Manufacturer Information

- Brand: UTEK
- Manufacturer:
- Logo: 

2. Material model and version

- Model: UT-8511P Series
- Version: VER:01
- Version revision:

Model	Content of Changes	Reason for Change	Date	Version
UT-8511P Series	Initial Version	/	2026-08-22	01

3. Main functions and features

- Supports USB to RS-232

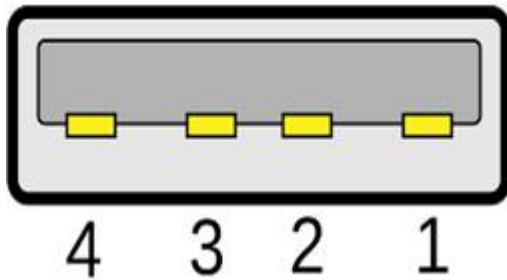
4. Technical Specifications

- Standard: Compliant with USB V1.0, 1.1, and 2.0 standards, and compatible with TIA/EIA standards.
- Main chip: Adopts PL2303GT chip, which supports a maximum communication rate of up to 2 Mbps. Supports automatic identification and dynamic adaptation of communication baud rates.
- USB signal: VCC, DATA+, DATA-, GND, FG
- RS-232 signal: DCD, RXD, TXD, DTR, GND, DSR, RTS, CTS, RI
- Input Voltage: Powered from the computer. The operating voltage is $5V \pm 5\%$
- Transmission medium: Twisted pair or shielded wire
- Working mode: RS-232 full-duplex, point to point
- Direction Control: Adopts automatic data flow control technology to automatically identify and regulate the direction of data transmission.
- Transmission rate: RS-232(300bps-2Mbps)
- Interface protection level: RXD/TXD contact $\pm 4KV$ ESD protection, air $\pm 4KV$ ESD protection
RXD/TXD differential mode $\pm 500V$ lightning surge protection
USB port input overcurrent protection
- Interface type: USB Type-A connector, DB9 male connector
- Transmission distance: 15m for RS-232, no more than 5m for USB
- Dimension: See ordering table

- Working environment: -40℃~+85℃, relative humidity is 5% to 95%
- Supports Win7/10/11/Linux

5. Port definition

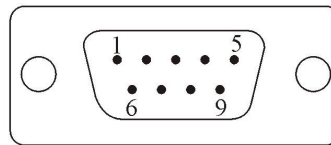
5.1 USB-A: USB signal input & PIN assignment



- 1、VCC
- 2、DATA- (UD-)
- 3、DATA+ (UD+)
- 4、GND

5.2 DB9 PIN assignment

DB9 male(PIN)	Output signal
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI



6. Product View (Appearance Picture)



7. Ordering

Model	Dimension (L×W×H)	Cable length tolerance
UT-8511P-0.5	500mm×33mm×15mm	±20mm
UT-8511P-1	1000mm×33mm×15mm	
UT-8511P-1.5	1500mm×33mm×15mm	
UT-8511P-2	2000mm×33mm×15mm	±30mm
UT-8511P-3	3000mm×33mm×15mm	

8. Labeling



9. Packing list

Item	Qty (pcs)
UT-8511P Series	1 pc
USB cap	1 pc
Certificate of Conformity	1 pc

10. Packaging method and outer carton labeling



Package box dimensions: 130mm×130mm×23mm (L×W×H)

Note: Production batch number and production date are subject to the actual goods.

11. Storage and transportation requirements

Storage temperature: -40°C to $+85^{\circ}\text{C}$, relative humidity: 5% to 95%

12. Processing/Assembly/Installation Precautions (Optional)

13. Test method for typical parameters (optional)

14. Product warranty and service (optional)