

# **Model:UT-2201-PCBA**

**Commercial-grade mini RS-232 to RS-485 interface converter**

## **Datasheet**



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## 1. Overview

UT-2201-PCBA shape adopts DB-9/DB-9 universal adapter plug, where T/R+, T/R- represent transceiver A+, B-, VCC represents backup power input, GND represents common ground. Point-to-point, point-to-multipoint, half-duplex communication connected to two lines (T/R+, T/R-), the wiring principle "transmit / receive +" to the other side of the "transmit / receive +", "transmit / receive -" to the other side of the "transmit / receive". When wiring in RS-485 half-duplex mode, connect T/R+ (transmit/receive+) to the other party's A+ and T/R-, and (transmit/receive-) to the other party's B-.

## 2. Main functions and feature

- Supports RS-232/485 interface converters

## 3. Technical Parameters

- Interface features: interface compatible with EIA/TIA RS-232C, RS485 standard
- Electrical interface: RS-232 DB9 female connector, RS-485 DB9 male connector, with terminal block (optional)
- Operating mode: Asynchronous half-duplex differential transmission
- Transmission medium: twisted pair or shielded wire
- Transmission rate: 300bps-115.2Kbps
- Dimension: 62.5mmX31mmX12.5mm
- Operating environment: -25~ 70°C, relative humidity of 5~95%
- Transmission distance: 1,200 m (RS-485) 5 m (RS-232)
- Protection level: 600W per line lightning surge protection for RS-485 interface

## 4. Connectors and Signals

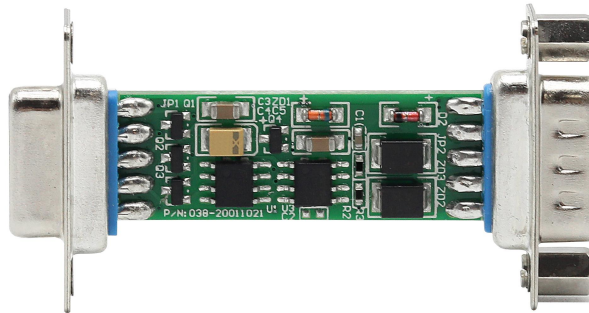
- RS-232C Pin Assignment

DB9 female(PIN)	Interface signal
1	GND
2	Transmit data SOUT (TXD)
3	Receive data SIN (RXD)
4	DTR
5	GND
6	-
7	DSR
8	RTS
9	RI

● RS-485 output signal and terminal pin assignment

DB9 male(PIN)	Output signal	RS-485 half-duplex wiring
1	T/R+	RS-485(A+)
2	T/R-	RS-485(B-)
3	N/C	-
4	N/C	-
5	GND	GND
6	VCC	+5V backup power input

## 5. Product View (Appearance)



## 6. Structure Dimensions

