

# **Model:UT-2505B**

**RS-232 to CANBUS Converter**

# **Datasheet**

## 1. Overview

UT-2505B is a high performance RS-232 to CAN-bus converter. It supports the interconnection between RS-232 and CAN-Bus. Rs-232 baud rate is 1,200-115,200bps, and CAN-bus baud rate is 5kbps-1Mbps. The converter supports three data conversion modes: transparent conversion, transparent tape identification conversion and Modbus protocol conversion. This extends the application scope of this converter. UT-2505B converter provides configuration tools that allow users to set the interface parameters of UT-2505B. It is industrial standard design; CAN communication interface and system is isolated; with anti-interference and surge protection ability, it is widely used in industrial control, data communication systems.

## 2. Technical Parameters

- Supports bidirectional data transmission between CAN-bus and RS-232
- Supports CAN 2.0 protocol
- 1-ch CAN-bus interface, 5Kbps-1Mbps transmission rate
- 1-ch RS-232 interface, 600bps-230Kbps transmission rate
- Provides 3 data conversion mode: transparent conversion, transparent tape identification conversion, Modbus protocol conversion
- Operating voltage: 12-36 V DC
- Operating current: ≤150mA@12V
- Operating temperature: -40 ~ 85°C
- Storage temperature: -40 ~ 85°C
- Relative Humidity: 5 ~ 95%(non-condensation)
- Storage humidity: 5 ~ 95%(non- condensation)
- Isolated voltage: 1,000VDC

## 3. Indicator

PWR: Red, power indicator, it is on while the power is normal

232TX: Green, it is flashing while the serial port sending data; it is off while finish sending.

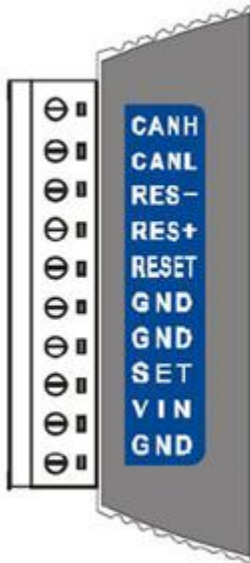
232RX: Yellow, it is flashing while the serial port receiving data; it is off while finish receiving.

CANTX: Green, it is flashing while CAN port sending data; it is off while finish sending.

CANRX: Yellow, it is flashing while CAN port receiving data; it is off while finish receiving.

## 4. Pin definition

### 1. CAN interface definition



PIN No	PIN Name	Description
1	CANH	CAN-H
2	CANL	CAN-L
3	RES-	CAN Matching resistance
4	RES+	CAN Matching resistance
5	RESET	Reset
6	GND	GND
7	GND	GND
8	SET	SET PIN
9	VIN	Power+
10	GND	Power-

### 2. RS-232 interface definition

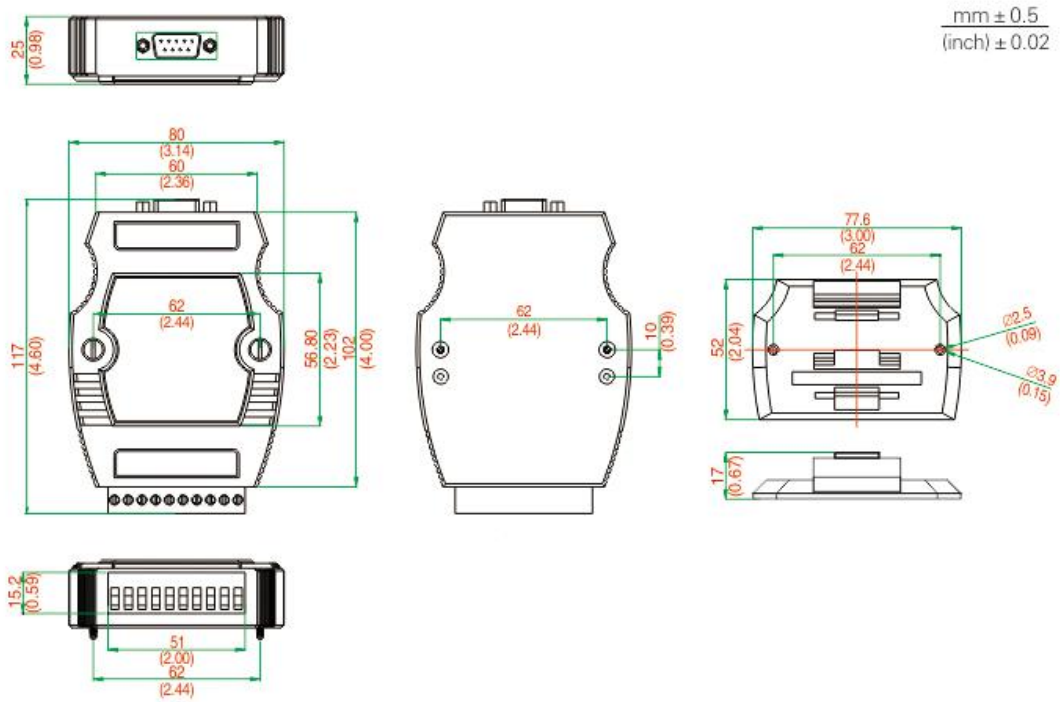


PIN No	PIN Name	Description
2	TXD	RS-232 TXD
3	RXD	RS-232 RXD
5	GND	GND
1, 4, 6, 7, 8, 9	NC	NC

## 5. Product View (Appearance)



## 6. Structure Dimensions



## 7. Ordering Information

Model	Signal/ Interface			Protection level		Baud rate	Operating Environment			Power	
	RS232	RS485	CAN BUS				Temperature		Humidity		
	DB9 Female	Terminal block	Terminal block	RS232	CAN BUS		-25~70 ℃	-40~85 ℃	5~95%	plug and play	External power
UT-2505B	√		√	600W Surge	±15KV ESD	Serial :600bps~230.4kbps CAN:5Kbps~1Mbps		√	√		9~36VDC