

# **Model:UT-6502SM-SC**

**100M Fiber to 2-port CANBUS Converter**

## **Datasheet**

## 1. Overview

The UT-6502SM-SC is a high-performance CAN-bus communication converter with 2 CAN interfaces and 1 fiber optic interface. The converter supports interconnection and interoperability between 100M fiber optic network and CAN-bus with communication rate from 5Kbps to 1Mbps, which further extends the application range of CAN-bus and fiber optic, and the UT-6502SM-SC converter provides web configuration interface, so that users can flexibly set the operation parameters of the UT-6502SM-SC converter. The UT-6502SM-SC is designed with high industrial standard; the communication interface is isolated from the system and has certain anti-interference and anti-surge capability, which is widely used in industrial control and data communication system.

## 2. Main functions and feature

- Realizes bidirectional data transmission between CAN-bus and fiber optic network
- Support CAN2.0 protocol
- Integrated 2-port CAN-bus communication interface, supporting 5Kbps-1Mbps custom rate
- Integrated 1-port 100M fiber optic network interface
- Max. transmission distance: 20Km
- Operating voltage: 12-36V DC
- Operating current:  $\leq 150\text{mA}@12\text{V}$
- Operating temperature:  $-40\sim 85^{\circ}\text{C}$
- Storage temperature:  $-40\sim 85^{\circ}\text{C}$
- Operating humidity: 5~95% (No condensing)
- Storage humidity: 5~95% (no condensing)
- Isolation voltage: 1000VDC
- Static protection: Air 8kV, contact 6kV
- Surge protection: Power port: 1.2/50us common mode 2kV, differential mode 1kV  
CAN port: 600W

## 3. Indicator

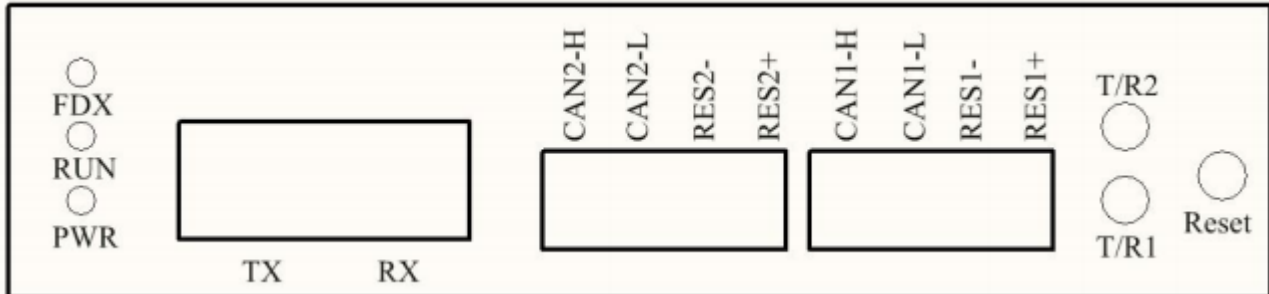
- PWR: red, power indicator; long light when power supply is normal.
- RUN: green, system operation indicator; flashes when the system is running normally.
- FDX: green, fiber optic communication indicator; flashes when there is data communication.
- T/R1: green, communication indicator; lights up when CAN1 sends and receives data, and goes out when sending and receiving are completed.
- T/R2: green, communication indicator; when CAN2 sends and receives data, the indicator is on and goes off when the sending and receiving is completed.

## 4. Button Definition

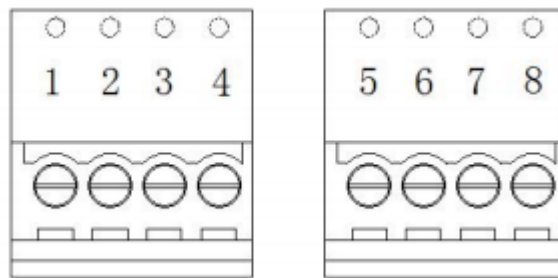
Reset: button, press for 3 seconds to reset the system, press for 5 seconds to restore the device to factory setting

## 5. PIN Definition

### 1. Label silkscreen



### 2. Terminal Pin Definition



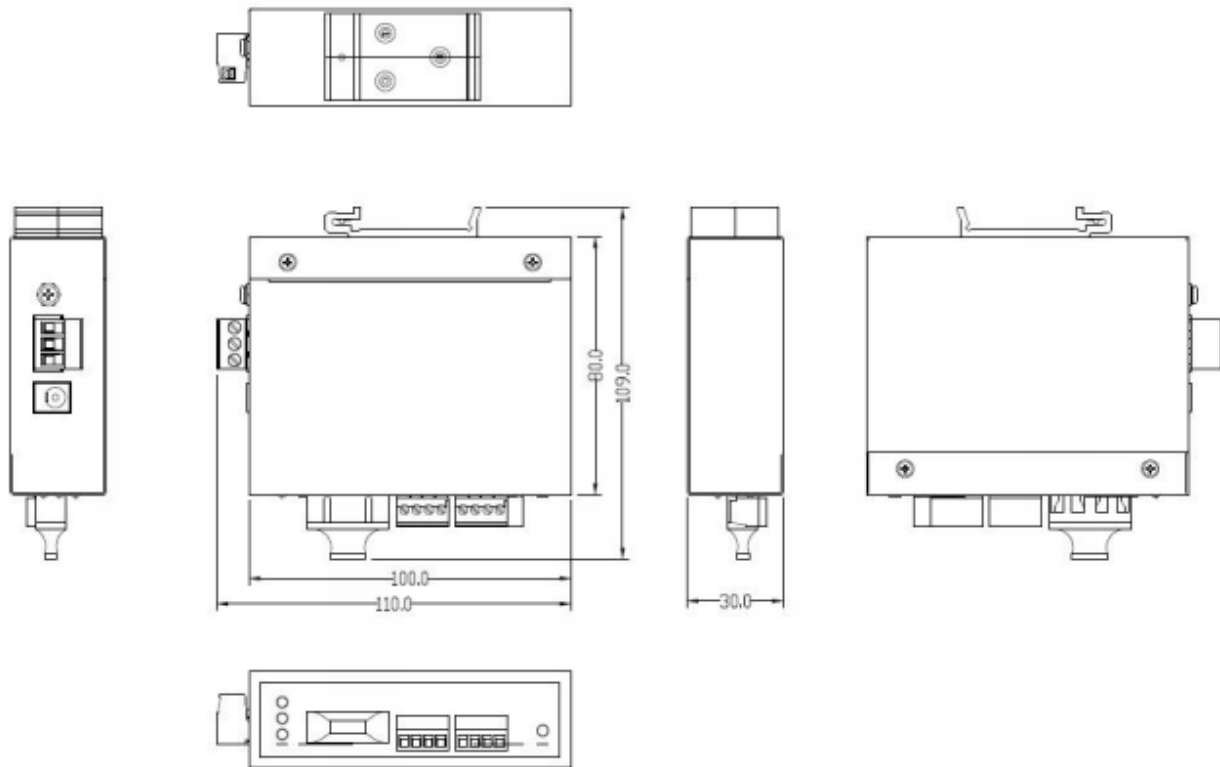
3.81-4pin Phoenix terminal

Pin No.	Pin name	Description	Pin No.	Pin name	Description
1	CAN1-H	CAN1-H signal connection terminal	5	CAN2-H	CAN2-H signal connection terminal
2	CAN1-L	CAN1-L signal connection terminal	6	CAN2-L	CAN2-L signal connection terminal
3	RES1+	CAN1 Matching resistor terminal I	7	RES2+	CAN2 Matching resistor terminal I
4	RES1-	CAN1 Matching resistor terminal II	8	RES2-	CAN2 Matching resistor terminal II

## 5. Product View (Appearance)



## 6. Structure Dimensions



## 7. Ordering

Model	Signal/Interface		Protection level		Baud rate	Operating Environment			Power	
	Fiber	CAN BUS	Power supply	CAN BUS		Temperature		Humidity	plug and play	External power
	SC	Terminal block				0~70°C	-40~85 °C	5~95%		
UT-6502	1	2	1.2/50us common mode	600W	CAN port					
SM-SC	100M		2kV, differential mode 1kV	Surge	5Kbps~1Mbps		v	v		12~36VDC